

**BLINK: a language to view, recognize,
classify and manipulate 3D-spaces**

by

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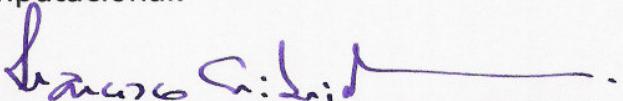
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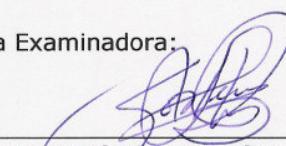
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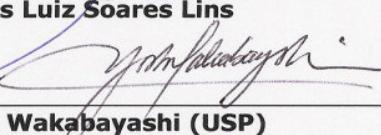
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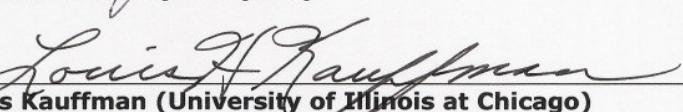


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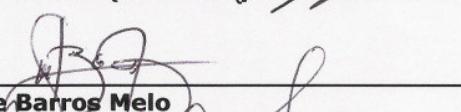
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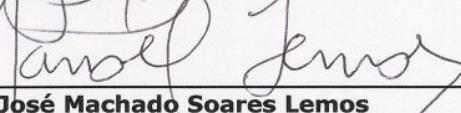
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to Sofia

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but this constraint does not exist, so I can continue...

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Resumo

Um *blink* é um grafo plano onde cada aresta ou é vermelha ou é verde. Um *espaço 3D* ou, simplesmente, um *espaço* é uma variedade 3-dimensional conexa, fechada e orientada. Neste trabalho exploramos pela primeira vez em maiores detalhes o fato de que todo blink induz um espaço e todo espaço é induzido por algum blink (na verdade por infinitos blinks). Qual o espaço de um triângulo verde? E de um quadrado vermelho? São iguais? Estas perguntas foram condensadas numa pergunta cuja busca pela resposta guiou em grande parte o trabalho desenvolvido: quais são todos os espaços induzidos por blinks pequenos (poucas arestas)? Nesta busca lançamos mão de um conjunto de ferramentas conhecidas: os *blackboard framed links* (BFL), os *grupos de homologia*, o *invariante quântico* de Witten-Reshetikhin-Turaev, as *3-gems* e sua teoria de simplificação. Combinamos a estas ferramentas uma teoria nova de decomposição/composição de blinks e, com isso, conseguimos identificar todos os espaços induzidos por blinks de até 9 arestas (ou BFLs de até 9 cruzamentos). Além disso, o nosso esforço resultou também num programa interativo de computador chamado **BLINK**. Esperamos que ele se mostre útil no estudo de espaços e, em particular, na descoberta de novos invariantes que complementem o invariante quântico resolvendo as duas incertezas deixadas em aberto neste trabalho.

Palavras-chave: topologia, 3-variedades fechadas conexas e orientadas, grafos planos, espaços, *graph encoded manifolds*.

Abstract

A *blink* is a plane graph with its edges being red or green. A *3D-space* or, simply, a *space* is a connected, closed and oriented 3-manifold. In this work we explore in details, for the first time, the fact that every blink induces a space and any space is induced by some blink (actually infinitely many blinks). What is the space of a green triangle? And of a red square? Are they the same? These questions were condensed into a single one that guided a great part of the developed work: what are all spaces induced by small blinks (few edges)? In this search we used a known set of tools: the *blackboard framed links* (BFL), the *homology groups*, the *quantum invariant* of Witten-Reshetikhin-Turaev, the *3-gems* and its simplification theory. Combining these tools with a new theory of decomposition/composition of blinks we could identify all spaces induced by blinks with up to 9 edges (or BFLs with up to 9 crossings). Besides that, our effort resulted in an interactive computer program named **BLINK**. We hope that this program becomes useful in the study of spaces, in particular, in the discovery of new invariants that complement the quantum invariant and homology group solving the two uncertainties that we left open in this work.

Keywords: topology, closed connected oriented 3-manifolds, plane graphs, spaces, graph encoded manifolds.

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CHAPTER 1

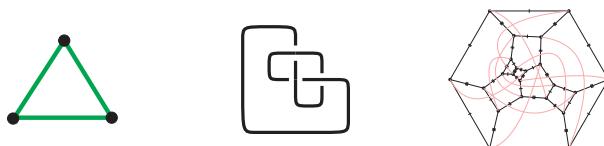
Introduction

1.1 Initial motivation

Unexplored simplicity. This was the reason for the birth of this work. Let me explain. Topology deals with, among other objects, the so called *3-manifolds*. A basic type of 3-manifold is a *closed, connected, oriented 3-manifold* and, in this work, the term *space* will be used as a synonym for it.¹ In 1994, Kauffman and Lins [KL94] introduced a new way to present spaces. They named their new presentation *blinks*. In fact, on their work, blinks were appreciated as being a new concise presentation for spaces, but its main importance there was its use as an intermediate step to convert a *blackboard framed link* presentation of a space into a *3-gem* presentation of the same space. This conversion, among other results, is central to this work, but we will get to it later. What I want to say now is what attracted me to this object named blink. Here it is.

Blink states that a triangle is a space. That a square is a space. That any plane graph (i.e. any drawing in a plane made of points connected by curves that do not intersect) is a space.

What space has the form of a triangle? And the form of a square? I found this connection between plane graphs and spaces very elegant. This elegance becomes even more special when we see that other space presentations have more “complicated” drawings than blink presentation does. For example, the following three drawings are different presentations for space $\mathbb{S}^3/\langle 3,3,2 \rangle$.²



¹The term “space” is also used as a synonym for a 3-manifold (any 3-manifold), but here we will use it as a synonym only for a closed, connected, oriented 3-manifold.

²That is, the quotient of the 3-sphere under the action of the binary tetrahedral subgroup, which is a non-abelian group of order 12.

The first is a blink presentation, the second is a blackboard framed link presentation and the third is a 3-gem presentation. In this example it is clear that the blink presentation is simpler. Its perceptual complexity is smaller. Indeed this is always the case. No other space presentation has simpler drawings than blink does. Blackboard framed links don't, 3-gems don't. *special spines* don't, *Heegaard diagrams* don't.

This simplicity aspect of blinks allied to the fact that they were not studied before, except as a by product on the books [KL94, Lin95] made me decide to explore it. To see the greatest number of spaces through blink drawings was the initial intent, but the hope was also that so much elegance and simplicity is not in vain and it could, by the fact that it was not explored before, hold some yet unknown secret of spaces.

1.2 Historical overview

In 1962 Lickorish [Lic62] revolutionized the area of spaces by proving in a purely combinatorial way a result first published by Wallace [Wal60] two years before by means of differential topology. The result has, as a corollary, the following fact:

Given any space M , there exists a finite number k of disjoint solid tori $T_i \subset M$ such that $M \setminus \bigcup_{i=1}^k T_i$ is homeomorphic to $\mathbb{S}^3 \setminus \bigcup_{i=1}^k T'_i$, for a corresponding set of disjoint solid tori $T'_i \subset \mathbb{S}^3$.

Another consequence of Lickorish's Theorem permits the presentation of an arbitrary space as a link diagram in the plane with an integer attached to each one of the components, the so called *framed links*. The revolution was completed in 1978 when Kirby [Kir78] published his now famous calculus on framed links. This paper spurred an enormous activity in the area paving the way to prove deep theorems by a specific kind of diagrammatic calculus with well defined rules.

Framed links can be freed from the integers associated to their components if one introduces curls in their projections so as to have the frame of a component equal to its writhe,

thus producing a *blackboard framed link* or a *BFL*. In this way, every space presents itself as a blackboard framed link. A reformulation of Kirby’s calculus into blackboard framed link language is presented in [Kau91]: a formal BFL calculus. The importance of the BFL presentation is testified by the fact that we can obtain from it the Witten-Reshetikhin-Turaev quantum invariant (or WRT-invariant) of the induced space [Wit89, RT91]. This is not possible, at least it is unknown at the present, from a triangulation [Hem76], from a Heegaard diagram [Rol76] or from a *special spine* [Mat03] of the space. In this work the *QI* or quantum invariant of a space mean their WRT-invariants computed at $A = e^{i\pi/2r}$ [KL94].

A BFL can be reformulated into the object named *blink* also introduced in [KL94]. The presentation by blink is concise and permits, as BFLs does, the computation of best invariants available. But how do we prove that two blinks yielding the same invariants are manifestations of the same space? Kirby’s moves, although a theoretical masterpiece, are in this practical context of no use, except in very limited circumstances. For this task, the TS-moves and U-move on gems of Lins [Lin95] are much better. The applicability of the gem simplifying dynamics is available because from a blink it is straightforward to produce a gem inducing the same space [KL94]. Summarizing, the task of classifying blinks has to rely on gem theory which is, at present, an indispensable complement to perform the task. The topological classification of gems with 30 vertices (extending the classification of [Lin95] using again TS- and U-moves) has been recently accomplished [CC06].

1.3 What we did

In Section 1.1 we said our intent was to see the greatest number of distinct spaces through blinks (*i.e.* blink drawings). To be able to accomplish this task, the most important question we must know how to answer is whether two blinks A and B are actually presentations of the same space. A fact we did not mention before is that any space has infinitely many distinct blink presentations. So, to answer this question is not just checking that $A = B$ or $A \neq B$. The relation space-blink is not a one to one relation.

As mentioned in Section 1.2, blink is a direct reformulation of blackboard framed link (BFL). It is easy to go from a blink presentation of a space to a BFL presentation of the same space and vice-versa. We also mentioned that a formal calculus for BFLs is well known. This means that a set of BFL operations or moves is known such that any pair of BFLs induce the same space if and only if there is a path, *i.e.* a finite sequence of operations or moves in this set, that transforms one BFL into the other. So, we could answer our question like this: obtain a BFL presentation for A , obtain a BFL presentation for B , then show a path in the BFL calculus transforming A into B , proving that they induce the same space; or show that such a path does not exist, and conclude that they induce different spaces. Although this approach is correct and theoretically possible, it is not practical. How to show a proof that a path does not exist? Despite of this practical gap, one of the contributions of this thesis is a reformulation of the BFL calculus into a purely blink calculus.

Section 1.2 also mentions that from a blink we are able to calculate some space invariants. For example, it is possible to obtain the homology group or the Witten-Reshetikhin-Turaev quantum invariant of its space. Indeed, this is the first thing we do to answer whether blink A induces the same space as blink B . We calculate these two invariants and if any of them are different we can answer for sure that the blinks induce different spaces. But, if they are both the same, we cannot say their spaces are the same. No complete invariant for spaces is known. So, any known space invariant may fail to distinguish different spaces.

When the space of blink A is not distinguished from the space of blink B by the space in-

variants, we must use another tool to answer our question. This other tool is 3-gem theory. The book [KL94] shows a way to obtain a 3-gem presentation from a blink presentation inducing the same space. We improved this algorithm in Chapter 4. In [Lin95] a nice algorithm to simplify 3-gems is presented. So the last thing we do to answer our question is to check whether the blinks A and B not distinguished by the space invariants have their 3-gems simplified to a common 3-gem. If this is the case then we are sure that A and B induce the same space. If not, then we are not sure. It is a hint that they are different but this cannot be said. For small blinks, as we will see later, there are only two uncertainties left out of ≈ 500 .

This approach of testing the homology group and the WRT-quantum invariant to distinguish blinks and then, if not distinguished, applying the 3-gem simplifying algorithm to show that they induce the same space was very successful in our experiments as we will see in Chapter 5. Its only constraint is that it works only for small blinks and 3-gems. The computational effort to calculate quantum invariants or to simplify 3-gems is exponential in the sizes of the blinks and of the 3-gems, respectively.

Let's return to our initial intent: isolating the largest number of spaces through blinks. We already know how to test if two (small) blinks do induce the same space or not. The next important thing to define is for what blinks we are going to ask these questions. To try all possible blinks is prohibitive and unnecessary. As we will see, we can search for spaces in only a small fraction of all possible blinks and yet not lose anything. To get to this optimization we first developed a useful decomposition/composition theory of blinks in Chapter 3 (actually the theory was developed for its combinatorial counterpart: the g-blink). Then, using the results and operations of blink calculus and BFL calculus we filtered some redundant blinks. This resulted in a small set of blinks for which we could identify all spaces. We also could isolate interesting sets of small blinks inducing the same spaces such that a path in blink calculus or BFL calculus is not trivial to identify. These sets may lead to new ideas for theorems or space invariants.

A contribution of this thesis is a computer program named **BLINK**. It was responsible for most of the figures in this document. It also supports the most important concepts discussed in the following chapters and we hope that it will become popular and help researchers and stu-

dents to learn, do research or just appreciate spaces through the language of blinks, blackboard framed links or 3-gems which are the objects that it supports at the moment.

1.4 The structure of this thesis

In Chapter 2 we begin with a review of the basic topological language and concepts needed in the remaining of the thesis. We then introduce *knots and links* and their diagrams. After that we introduce *framed links* and *blackboard framed links* (BFL) and show how they encode spaces. A calculus for blackboard framed links is presented.

In Chapter 3 we define the motivating object of this work: a *blink*. We show that blinks are a simple reformulation of blackboard framed links with the advantage of having simple drawings. We then reformulate the BFL calculus shown in Chapter 2 in blink language. From blinks we define a new combinatorial object named *g-blanks*. We show how to obtain the homology group and quantum invariant of Witten-Reshetikhin-Turaev invariants from a g-link. The code of a g-link is then presented. Then some involutions of g-links are defined: dual, reflection and refDual. The concept of a representative g-link is introduced based on the previous results shown for g-links. We end the chapter showing how to identify all spaces that are induced by small blinks and what is the missing piece to do that: a way to prove homeomorphisms.

In Chapter 4 we define 3-gems: another way to present spaces. We then show some moves that can be done in 3-gems without changing the induced space. These moves yields a viable computational way to prove homeomorphism of spaces: a combinatorial simplification dynamics of 3-gems. To connect blinks and 3-gems we show an improved way to obtain, from a blink, a 3-gem inducing the same space. We finish this chapter with the proof, via 3-gems, of a theorem on g-links stated in Chapter 3: the partial reflection theorem.

In Chapter 5 we present the computational experiments and results that we have obtained. We define formally what we are searching: a census of prime spaces. Then we construct a small set named U that has the *9-prime-unavoidable* property. We then show how we topologically identified the spaces of every g-link in U . We finish the chapter exploring another set of

g-blanks: simple 3-connected monochromatic blinks.

In Chapter 6 we review the main contributions of this work, talk a little about the program BLINK and about a theoretical contribution that we did not finish on time to this thesis: a polynomial algorithm to obtain the blink of a 3-gem. Some research problems that can be explored as a continuation of this work are also shown.

CHAPTER 2

Topology, manifolds, links and blackboard framed links

2.1 Topology, manifolds and what we call here “spaces”

In topology the shape of a cup of coffee is equivalent to the shape of a doughnut. Everybody knows that if we try to put coffee on a doughnut the result is not the same as if we try to put coffee on a cup of coffee. So, our first conclusion is: what topology states as “equivalent shapes” is definitively not aligned with our practical understanding of equivalent shapes. One of the main problems that topology deals is classifying shapes as equivalent or not and, at the end, describing what are all possible shapes. In this section, based on the clean and direct approach of [VINK], we present an introduction to elementary topology to settle the vocabulary and the basic concepts needed. At the end we define what are *manifolds* and the specific class of closed, connected, oriented manifolds which are the “shapes” that we are interested in this work.

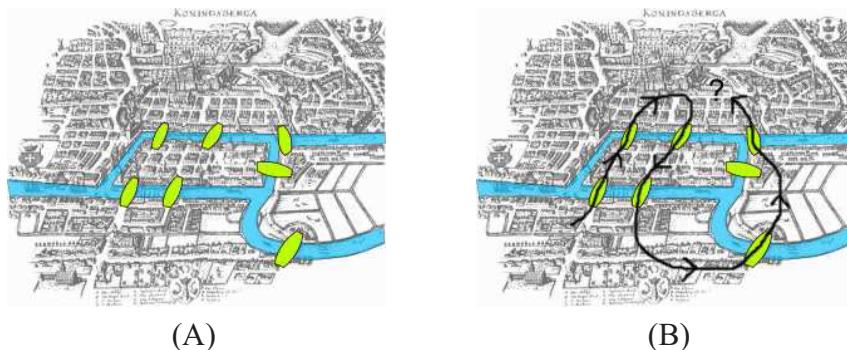


Figure 2.1 Seven bridges of Königsberg

In the XVIII century, the city of Königsberg, Prussia (now Kaliningrad, Russia) had seven bridges over the Pregel river connecting two islands and other parts of the city as is shown in Figure 2.1A. A famous problem concerning Königsberg was whether it was possible to take a

walk through the town in such a way as to cross over every bridge only one time. Figure 2.1B shows a wrong walk attempt: by the time the sixth bridge is crossed the only uncrossed bridge is unreachable.

No one was able to do this walk, and yet nobody knew how to prove that it could not be done. In 1735, some college students sent this problem to Leonhard Euler, one of the greatest mathematician of all time. Euler was able to prove mathematically that this walk was impossible. This result did not depend on the lengths of the bridges, nor on their distance from one another, but only on connectivity properties: which bridges are connected to which islands or riverbanks. What Euler captured with the “Problem of the Seven Bridges of Königsberg” is the motivating insight behind topology:

some geometric problems depend not on the exact shape of the objects involved, but rather on the “way they are connected together”.

Leonhard Euler’s 1736 paper on Seven Bridges of Königsberg is regarded as one of the first topological results and also led to graph theory, a branch of mathematics with “infinite” applications [Wik06b, Wik06a].

Topology, in its present form, long after Euler, uses the term *topological space* for what we called a “shape” on the beginning of this section. Before defining what are *topological spaces* we define *metric spaces*, as they are the source for the concrete “shapes” or *topological spaces* that we are interested.

METRIC SPACES

A *metric* or a *distance* in a set X is a function $\rho : X \times X \rightarrow \mathbb{R}_+ = \{x \in \mathbb{R} \mid x \geq 0\}$ that satisfies

- (1) $\rho(x,y) = 0$, iff $x = y$,
- (2) $\rho(x,y) = \rho(y,x)$, for every $x,y \in X$,
- (3) $\rho(x,y) \leq \rho(x,z) + \rho(z,y)$, for every $x,y,z \in X$. (*triangle inequality*)

The pair (X, ρ) , where ρ is a metric in X , is called a *metric space*. The function

$$\mathbb{R}^n \times \mathbb{R}^n \rightarrow \mathbb{R}_+ : (x, y) \mapsto \sqrt{\sum_{i=1}^n (x_i - y_i)^2}$$

is a metric in \mathbb{R}^n and is called *euclidean metric*.

Let (X, ρ) be a metric space, let a be a point in X , and let r be a positive real number. The sets

$$B_r(a) = \{x \in X \mid \rho(a, x) < r\},$$

$$D_r(a) = \{x \in X \mid \rho(a, x) \leq r\},$$

$$S_r(a) = \{x \in X \mid \rho(a, x) = r\}$$

are called, respectively, *open ball*, *closed ball*, and *sphere* of the space (X, ρ) with center a and radius r . If (X, ρ) is a metric space and $A \subset X$, then the restriction of metric ρ to $A \times A$ is a metric in A , and $(A, \rho|_{A \times A})$ is a metric space. It is called a *subspace* of (X, ρ) . The ball $D_1(0)$ and the sphere $S_1(0)$ in \mathbb{R}^n with the euclidean metric are denoted by symbols D^n and S^{n-1} and called *n-dimensional ball* and *(n-1)-dimensional sphere*. They are considered as metric spaces with the metric restricted to \mathbb{R}^n . Note that: D^1 is the segment $[-1, 1]$; D^2 is a disk; S^0 is the pair of points $\{-1, 1\}$; \mathbb{S}^1 is a circle; \mathbb{S}^2 is a sphere; D^3 is a ball. The words disk, circle, sphere and ball were used, in last sentence, appealing to their common sense meaning. Now, for this work, they have a formal meaning: a *disk* is D^2 , a *circle* is \mathbb{S}^1 , a *sphere* is \mathbb{S}^2 and a *ball* is B^3 .

TOPOLOGICAL SPACES

A *topological space* is a set X with a collection Ω of subsets of X satisfying the following three axioms:

- (1) the empty set \emptyset and X are in Ω ,
- (2) the union of any collection of sets in Ω is in Ω ,
- (3) the intersection of any pair of sets in Ω is in Ω .

The collection Ω is called a *topological structure* or a *topology* in X . The sets in Ω are called *open*. The elements of X are called *points*. A set $F \in X$ is said *closed* in the space (X, Ω) if its complement $X \setminus F$ is open (*i.e.* $X \setminus F \in \Omega$). Note that \emptyset and X are both open and closed. A *neighborhood* of a point is any open set containing that point. A collection Σ of open sets is called a *base* for a topology (*i.e.* topological structure), if each nonempty open set is a union of sets belonging to Σ .

The following result connects metric spaces and topological spaces:

*the collection of all open balls in a metric space (X, ρ)
is a base for some topology in X .*

For example, consider \mathbb{R}^2 with the euclidean metric. Then, a topology for \mathbb{R}^2 is the set of all unions of open balls (open disks in the plane). This topology is the default topology when nothing else is mentioned.

Let (X, Ω) be a topological space, and $A \subset X$. Denote by Ω_A the collection of sets $A \cap V$, where $V \in \Omega$. Then,

Ω_A is a topological structure in A .

The pair (A, Ω_A) is called a *subspace* of the space (X, Ω) . The collection Ω_A is called the *subspace topology* or the topology *induced* on A by Ω , and its elements are the open sets in A .

At this point, we can think, for instance, of \mathbb{S}^2 as a topological space. We know that the collection of open balls of \mathbb{R}^3 (as a metric space with the euclidean metric) is a base for a

topology in \mathbb{R}^3 . Consider this topology to view \mathbb{R}^3 as a topological space. Restrict this topology of \mathbb{R}^3 to \mathbb{S}^2 to obtain a topology for \mathbb{S}^2 : \mathbb{S}^2 is now a topological space. In this work this logical sequence to obtain a topology for a subset of \mathbb{R}^n is always the one considered. So, from now on, every subset of \mathbb{R}^n may also be viewed as a topological space. For example the surface of doughnut and of the coffee cup considered in the beginning of this section may now be viewed as subsets of \mathbb{R}^3 and, consequently, as topological spaces.

MAPS

In the context of topology, the terms *map* and *mapping* are synonyms of function. A mapping $f : X \rightarrow Y$ is called a *surjective map*, or just a *surjection* if every element of Y is an image of at least one element of X . It is called an *injective map*, *injection* or *one-to-one map* if every element of Y is an image of, at most, one element of X . A mapping is called a *bijection map*, *bijection*, or *invertible* if it is surjective and injective.

The *image* of a set $A \subset X$ under a map $f : X \rightarrow Y$ is the set of images of all points of A . It is denoted by $f(A)$. Thus,

$$f(A) = \{f(x) : x \in A\}.$$

The image of the entire set X (*i.e.* $f(X)$) is called the *image* of f . The *preimage* of a subset of $B \subset Y$ under map $f : X \rightarrow Y$ is the set of elements of X whose images belong to B . It is denoted by $f^{-1}(B)$. Thus,

$$f^{-1}(B) = \{x : f(x) \in B\}.$$

CONTINUOUS MAPS

Let X, Y be topological spaces. A map $f : X \rightarrow Y$ is said to be *continuous* if the preimage of any open subset of Y is an open subset of X . A map $f : X \rightarrow Y$ is said to be *continuous at point* $a \in X$ if for every neighborhood U of $f(a)$ there exists a neighborhood V of a such that $f(V) \subset U$. One result about continuous maps is that: a map $f : X \rightarrow Y$ is continuous iff it is continuous at each point of X . Another result is that this notion of continuity coincides with the one that is usually studied in calculus:

Let X, Y be metric spaces, and $a \in X$. A map $f : X \rightarrow Y$ is continuous at the point a , iff for every $\varepsilon > 0$ there exists a $\delta > 0$ such that for every point $x \in X$ inequality $\rho(x, a) < \delta$ implies $\rho(f(x), f(a)) < \varepsilon$.

HOMEOMORPHISM

Now we are able to formally define the “topologically equivalence” concept. An invertible mapping is called a *homeomorphism* if it is continuous and its inverse is also continuous. A topological space X is said to be *homeomorphic* to space Y if there is a homeomorphism $X \rightarrow Y$. Being homeomorphic is *an equivalence relation*. Let X, Y and Z be topological spaces then:

- (1) X is homeomorphic to X ;
- (2) if X is homeomorphic to Y then Y is homeomorphic to X ; and
- (3) if X is homeomorphic to Y and Y is homeomorphic to Z then X is homeomorphic to Z .

Some examples of homeomorphic topological spaces: $[0, 1]$ and $[a, b]$ for any $a < b$; $(-1, 1)$ and \mathbb{R} ; an open disk and the plane \mathbb{R}^2 ; $\mathbb{S}^n \setminus \{\text{point in } \mathbb{S}^n\}$ and \mathbb{R}^n . Some examples of non-homeomorphic topological spaces: balls D^p, D^q with $p \neq q$; spheres S^p, S^q with $p \neq q$; punctured plane $\mathbb{R}^2 \setminus \{\text{point}\}$ and a plane with a hole $\mathbb{R}^2 \setminus \{(x, y) : x^2 + y^2 < 1\}$.

From the topological point of view homeomorphic spaces are completely identical: a homeomorphism $X \rightarrow Y$ establishes one-to-one correspondence between all phenomena in X and Y which can be expressed in terms of topological structures. Thus, two spaces are *topologically equivalent* or *the same for the purposes of topology* if there is a homeomorphism between them. There is a homeomorphism between the surface of a doughnut and the surface of a coffee cup, so they are topologically equivalent.

As we pointed out on the first paragraph of this section, not yet in the correct language, the topological equivalence problem or *homeomorphism problem* is one of the classic and important problems of topology:

Given two topological spaces, are they homeomorphic?

To prove that topological spaces are homeomorphic, it is enough to present a homeomorphism between them. Essentially this is what is done in this case. However, to prove that topologi-

cal spaces are not homeomorphic, it does not suffice to consider any special mapping, and is usually impossible to review all mappings. Therefore for proving non-existence of a homeomorphism one uses indirect arguments. In particular, one finds a property or a characteristic shared by homeomorphic spaces such that one of the spaces has it, while the other does not. Properties and characteristics shared by homeomorphic spaces are called *topological properties* or *invariants*. For instance, the cardinality of the set of points and of the set of open sets is a topological invariant.

EMBEDDING

A continuous mapping $f : X \rightarrow Y$ is called a *(topological) embedding* if the mapping $f' : X \rightarrow f(X)$ is a homeomorphism, where $f'(x) = f(x)$ for all $x \in X$. Embeddings $f_1, f_2 : X \rightarrow Y$ are said to be *equivalent* if there exist homeomorphisms $h_X : X \rightarrow X$ and $h_Y : Y \rightarrow Y$ such that $f_2 \circ h_X = h_Y \circ f_1$.

Note that homeomorphisms are special kind of embeddings, where the mapping is surjective.

COVER

A collection Γ of subsets of a set X is called a *cover* or a *covering* if the union of the elements of Γ contains X , *i.e.*, $X \subset \bigcup_{A \in \Gamma} A$. A cover Γ of a topological space X is said to be an *open cover* if every element of Γ is an open set. A cover Γ of a topological space X is said to be a *closed cover* if every element of Γ is a closed set. If Σ covers X and Γ covers X and $\Sigma \subset \Gamma$, then Σ is a *subcover* or *subcovering* of Γ .

CONNECTEDNESS

A topological space X is said to be *connected* if it has only two subsets which are both open and closed: \emptyset and the entire X . Although this definition is clear, at first, it is not intuitive. Let's get a more intuitive definition. A *partition* of a set is a cover of this set with pairwise disjoint sets. To *partition* a set means to construct such a cover. Now the equivalent notion of connectedness of a topological space:

A topological space is connected iff it cannot be partitioned into two nonempty open sets iff it cannot be partitioned into two nonempty closed sets.

For instance, consider the topological space obtained as a subspace of the plane that consists of two disjoint open disks (open balls) (*e.g.*: one open ball $B_1(-1, -1)$ and $B_1(1, 1)$). This topological space is not connected, because the two open disks, that are open sets, form a partition of the entire space.

A *connected component* of a space X is a maximal connected subset of X (*i.e.* a connected subset, that is not contained strictly in other larger subset of X). Some properties of connected components: every point belongs to some connected component; connected components are closed; two connected components are disjoint or coincident. The image of a connected space under a continuous mapping is connected, so connectedness is a topological property. The number of connected components is a topological invariant.

COMPACTNESS

A topological space X is said to be *compact* if any of its open covers has a finite subcover, *i.e.* if Γ is a cover for X then exists a finite $\Sigma \subset \Gamma$ that also covers X . The image of a compact space by a continuous mapping is also compact, so compactness is a topological property.

Compactness is a sort of topological counter-part for the property of being finite in the context of set theory. Example of a non-compact space: \mathbb{R}^n . Example of a compact space: \mathbb{S}^n . Indeed a subset of \mathbb{R}^n is compact if and only if it is closed and bounded (*i.e.* contained in an open ball).

HOMOTOPY

Let f, g be continuous maps of a topological space X to a topological space Y , and $H : X \times [0, 1] \rightarrow Y$ a continuous map such that $H(x, 0) = f(x)$ and $H(x, 1) = g(x)$ for any $x \in X$. Then f and g are said to be *homotopic* and H is called a *homotopy* between f and g . Homotopy of maps is an equivalence relation: (1) if $f : X \rightarrow Y$ is a continuous map then $H : X \times [0, 1] \rightarrow Y$

defined by $H(x, t) = f(x)$ is a homotopy between f and f ; (2) if H is a homotopy between f and g then H' defined by $H'(x, t) = H(x, 1 - t)$ is a homotopy between g and f ; (3) if H is a homotopy between f and f' and H' is a homotopy between f' and f'' then H'' defined by

$$H''(x, t) = \begin{cases} H(x, 2t) & \text{for } t \leq 1/2, \\ H'(x, 2t - 1) & \text{for } t \geq 1/2, \end{cases}$$

is a homotopy between f and f'' .

ISOTOPY

Let X, Y be topological spaces, $h, h' : X \rightarrow Y$ homeomorphisms. A homotopy $h_t : X \rightarrow Y$, $t \in [0, 1]$ connecting h and h' (*i.e.*, with $h_0 = h$, $h_1 = h'$) is called a *isotopy* between h and h' if h_t is a homeomorphism for each $t \in [0, 1]$. Homeomorphisms h, h' are said to be *isotopic* if there exists an isotopy between h and h' . Being isotopic is an equivalence relation on the set of homeomorphisms $X \rightarrow Y$.

The concept of isotopy may also be applied to embeddings. Let X, Y be topological spaces, $h, h' : X \rightarrow Y$ topological embeddings. A homotopy $h_t : X \rightarrow Y$, $t \in [0, 1]$ connecting h and h' (*i.e.*, with $h_0 = h$, $h_1 = h'$) is called an (*embedding*) *isotopy* between h and h' if h_t is an embedding for each $t \in [0, 1]$. Embeddings h, h' are said to be *isotopic* if there exists an isotopy between h and h' . Being isotopic is an equivalence relation on the set of embeddings $X \rightarrow Y$.

A family A_t , $t \in I = [0, 1]$ of subsets of a topological space is called an *isotopy of the set* $A = A_0$ if the graph $\Gamma = \{(x, t) \in X \times I \mid x \in A_t\}$ of the family is *fibrewise homeomorphic* to the cylinder $A \times I$, *i.e.* there exists homeomorphisms $A \times I \rightarrow \Gamma$ mapping $A \times \{t\}$ to $\Gamma \cap X \times \{t\}$ for any $t \in I$. Such a homeomorphism gives rise to an isotopy of embeddings $\Phi_t : A \rightarrow X$, $t \in I$ where Φ_0 is the identity mapping and $\Phi_t(A) = A_t$. An isotopy of a subset is also called a *subset isotopy*. Subsets A and A' of the same topological space are said to be *isotopic in X* , if there exists a subset isotopy A_t of A with $A'_1 = A_1$. The isotopic relation over the set of subsets of a topological space X is an equivalence relation.

An isotopy of a subset $A \in X$ is said to be *ambient*, if it may be accompanied with an embed-

ding isotopy $\Phi_t : A \rightarrow X$ extendible to an isotopy $\tilde{\Phi}_t : X \rightarrow X$ of the identity homeomorphism of space X . The isotopy $\tilde{\Phi}_t$ is said to be *ambient* for Φ_t . Two isotopic subsets of a topological space may not be ambient isotopic. Any pair of circles \mathbb{S}^1 embedded in \mathbb{S}^3 is isotopic, but a circle (Figures 2.2A) and a trefoil (Figures 2.2B) are not ambient isotopic.

MANIFOLDS

Let n be a non-negative integer. A topological space X is called *locally euclidean space of dimension n* if each point of X has a neighborhood homeomorphic either to \mathbb{R}^n or \mathbb{R}_+^n (*i.e.* $\mathbb{R}_+^n = \{x \in \mathbb{R}^n : x_1 \geq 0\}$, defined for $n \geq 1$). Examples of locally euclidean spaces: $\mathbb{R}^n; \mathbb{S}^n, D^n$.

A topological space is called *Hausdorff space* or just *Hausdorff* if any two distinct points possess disjoint neighborhoods. Result: any metric space is Hausdorff (*i.e.* the topological space with topology induced from the metric space is Hausdorff).

A space is said to satisfy the *second axiom of countability* or to be *second countable* if it has a countable base. Result: any metric space is Hausdorff (*i.e.* the topological space with topology induced from the metric space has a countable base).

A *manifold of dimension n* or n -manifold is a topological space that satisfies:

- (1) it is a locally euclidean space of dimension n ,
- (2) it is Hausdorff,
- (3) it is second countable.

Examples of n -manifolds: $\mathbb{R}^n; \mathbb{S}^n, D^n$.

The definitions until now were very formal, but this one will not be formal. A manifold of dimension n is called *non-orientable* if it is possible to take the homeomorphic image of an n -dimensional ball in the manifold and move it through the manifold and back to itself, so that at the end of the path, the ball has been reflected. The Möbius band and Klein bottle are the most famous examples of non-orientable manifolds. A manifold which is not non-orientable is *orientable*. An orientable space has two orientations and the choice of one of them makes the space an *oriented* space.

SPACES FOR US.....

In this work we are interested in studying a specific kind of “shape” or, as we learned, topological space. This is it:

connected, closed, oriented 3-manifolds.

The adjective *closed* applied to a 3-manifold means that it is boundary free and compact. We use, from now on, the word *space* to denote these topological spaces. This is not a perfect choice, as “space”, even in mathematics, has a lot of meanings. It could be a metric space. A vector space. A topological space not matching these constraints of being compact, connected, oriented. A common use for space, for instance, is any 3-dimensional topological space or any 3-manifold. These include our spaces but others too. In spite of all these, here, space will be exactly this: a connected, compact, oriented 3-manifold. So let’s put it big:

*A Space in this work is the same as
a connected, closed, oriented 3-manifold.*

2.2 Knots, links and diagrams

In general terms, *knot theory* studies the *placement problem*. As stated in [Kau87], this problem is

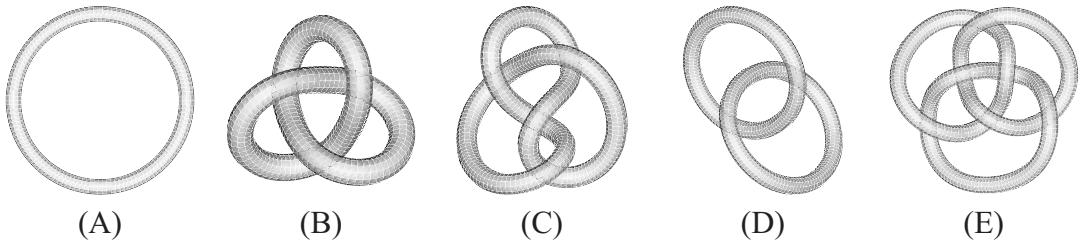
Given topological spaces X and Y , classify how X may be placed within Y . Here the “how” is usually an embedding, and classify often means up to some form of movement of X in Y (isotopy, for example).

When X is the circle \mathbb{S}^1 and Y is the 3-dimensional space \mathbb{R}^3 or \mathbb{S}^3 , we have *classical knot theory*. In this section we see, for this classical knot theory, a characterization of what are the equivalent embeddings. Things shown here form the basis for the approach to the problem of characterizing homeomorphic spaces (connected, compact, oriented 3-manifolds) that we show later.

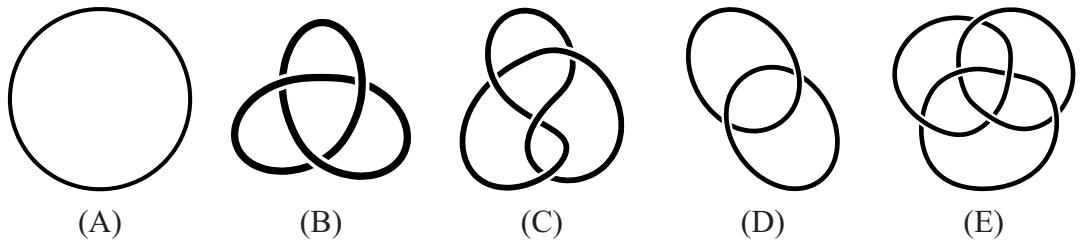
An embedding of a circle \mathbb{S}^1 in the 3-dimensional space \mathbb{R}^3 or in the 3-sphere \mathbb{S}^3 is called a *knot*. An embedding of a collection of circles in the 3-dimensional space \mathbb{R}^3 or in the 3-sphere \mathbb{S}^3 is called a *link*. Each circle (or the image of one) in a link is called a *component* of the link. So, a knot is a link with only one component. Figure 2.2 shows some links¹. The link of Figure 2.2A is also a knot (one component) and is suggestively called *unknot*. Figure 2.2B is the knot called *trefoil*. Figure 2.2C is the knot called *figure eight knot*. Figure 2.2D is a link with two components. Figure 2.2E is a link with three components and it is called the *borromean rings*. This link has an interesting property: we cannot separate the three rings without breaking one of them, *i.e.* the three rings are *linked*, even though, any two rings are separable without breaking (*i.e.* any pair of rings is unlinked).

Actually, Figure 2.2 presents the projection on the “plane of this paper” of thin cylinders centered and following the 1-dimensional strings that are the 3-dimensional image of the circles through the embeddings or links. It happens that we could replace Figure 2.2 by Figure 2.3 without loosing any important information. Each of this drawings is called a *knot diagram*

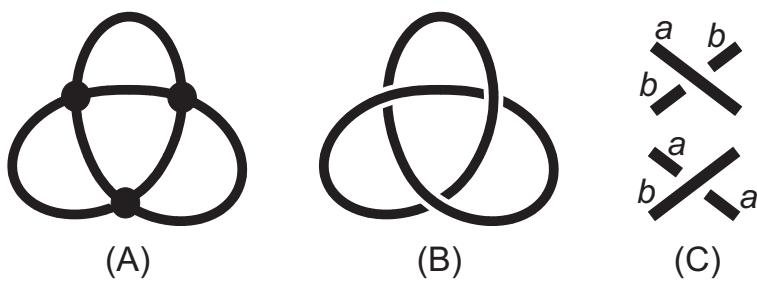
¹These figures were created using the beautiful tool called KNOTPLOT that was part of the phd thesis of Robert Scharein [Dra98].

**Figure 2.2** Knots and links

(if only one component) or *link diagram* (any number of components). On each crossing that appears in the plane projection of the cylinders, there is one cylinder segment on top of another cylinder segment. This is represented by a continuous curve (top segment) and a broken curve (bottom segment).

**Figure 2.3** Knots and links diagrams

So, a link diagram can be seen as a 4-regular *plane graph* with an extra information on each vertex. For example, the trefoil may be seen as the plane graph of Figure 2.4A. The extra information of the vertices is shown on Figure 2.4B and it encodes, in an intuitive way, exactly the information of which “cylinder segment” is on top and which “cylinder segment” is below. Note that there are two possibilities for this “extra information”. They are shown in Figure 2.4C. The *a* curve (*b* curve) in this figure is said to be the *overcrossing* (*undercrossing*) line in the top case and the *undercrossing* (*overcrossing*) line in the bottom case.

**Figure 2.4** Link diagram as plane graphs

Given two links, an interesting question to answer is whether these links can be aligned without tearing any of the strings. For example the links A and B given by their diagrams on Figure 2.5 can be aligned as is shown. Imagine this sequence of “moves” transforming A and B occurring on the 3-dimensional space. It is intuitive that we need no tearing. On the other

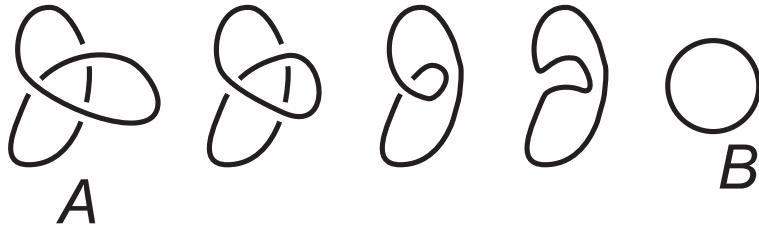


Figure 2.5 Ambient isotopic knots

hand, the circle and the trefoil (note the crossings on A to see that it is not a trefoil) cannot be aligned without tearing. These are examples of the placement problem for links. We say two links are placed the same way in 3-dimensional space if this alignment can be done. The formal term for this alignment, defined in Section 2.1, is: ambient isotopy. Ambient isotopy is an equivalence relation and when we say that links are equivalent we are referring to the ambient isotopy relation. So A and B in Figure 2.5 are equivalent, but are not equivalent to the trefoil.

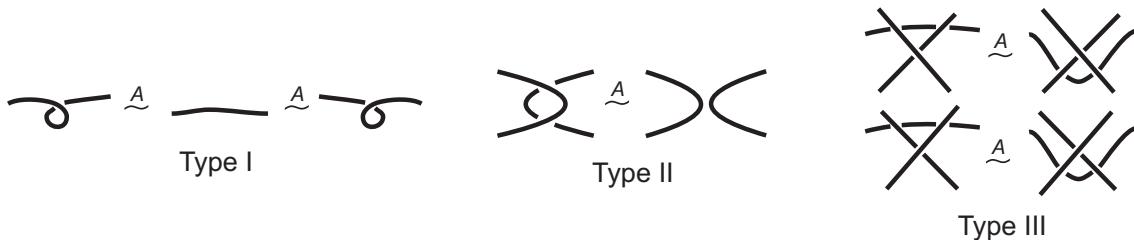


Figure 2.6 Reidemeister moves

Reidemeister [Rei48] proved the following result about link equivalence in the diagrammatic language:

*two links are equivalent (i.e. ambient isotopic) if and only if
any diagram of one link can be transformed into a diagram for the other link
via a sequence of Reidemeister Moves (Figure 2.6).*

We use the symbol $\overset{A}{\sim}$ between two link diagrams or detached pieces of link diagrams (where the boundaries of these pieces have a correspondence that should be clear) to denote that they are ambient isotopic. Note that the Reidemeister moves we used in the transformation of Figure 2.5 were type II move, type I move and alignments. The three Reidemeister moves will be also called RE_1 , RE_2 and RE_3 for moves of type I, type II and type III, respectively. Two link diagrams that differ by a finite sequence of Reidemeister moves RE_2 and RE_3 are said to be *regular isotopic*. The notation $A \overset{R}{\sim} B$, where A and B are link diagrams, is used to say that A and B are regular isotopic. Note that regular isotopic diagrams are always ambient isotopic,

$$A \overset{R}{\sim} B \implies A \overset{A}{\sim} B,$$

while the converse is not always true. Observe that the regular isotopic relation between link diagrams defines an equivalence relation on the set of link diagrams. This relation is called *regular isotopy*.

Link diagrams interpreted as *blackboard framed links*, as we will see later, is a presentation for spaces (*i.e.* connected, compact, oriented 3-manifolds). This connection is essential to the contribution of this work: a prime space catalog of small BFLs or blinks.

2.3 Linking number, writhe and linking matrix

A link is said *oriented* if all its components have an *orientation*. There are two possible orientations for each component. So, a link with k components can be oriented in 2^k different ways. To present an oriented link we can draw the link diagram with one arrow on each component indicating its orientation. For example, Figure 2.7A shows an oriented trefoil. A crossing on an oriented link diagram may be of two types as Figure 2.7C shows. Each of these types has a number +1 or -1 which is called the *sign of the (oriented) crossing*. When the undercrossing line, on its orientation sees the overcrossing line go from left to right then the sign is +1, else, if it sees the overcrossing line going right to left, the sign is -1.

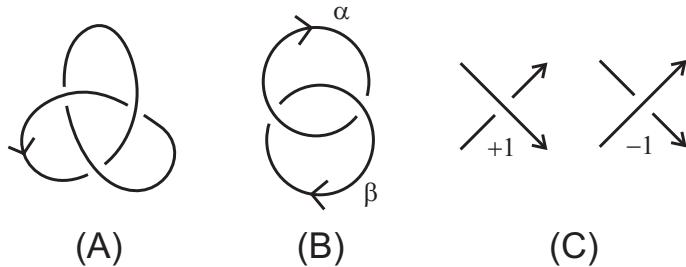


Figure 2.7 Oriented links

Let D be an oriented link diagram of link L . Let α be a component of L . The sum of the signs of auto-crossings of α (crossings of α with α) on D is said to be its *writhe* and is denoted by $w(\alpha)$. For instance, the writhe of the only component of the oriented trefoil of Figure 2.7A is +3, because all 3 crossing are auto-crossings and with sign +1. Note that changing the orientation of a component does not change its writhe. Now, let α and β be two components of a link L . The sum of the signs of the crossings on D of components α and β is said to be its *linking number* and is denoted by $\ell k(\alpha, \beta)$. For instance, on Figure 2.7B, the linking number of α and β is -2 as the two crossings are -1.

Let D be an oriented link diagram with components $\alpha_1, \alpha_2, \dots, \alpha_n$. The *linking matrix* of D

is given by

$$\begin{pmatrix} w(\alpha_1) & \ell k(\alpha_1, \alpha_2) & \cdots & \ell k(\alpha_1, \alpha_n) \\ \ell k(\alpha_2, \alpha_1) & w(\alpha_2) & \cdots & \ell k(\alpha_2, \alpha_n) \\ \vdots & \vdots & \ddots & \vdots \\ \ell k(\alpha_n, \alpha_1) & \ell k(\alpha_n, \alpha_2) & \cdots & w(\alpha_n) \end{pmatrix}$$

From this matrix, as we will see in Section 3.4, it is possible to obtain a space invariant: the homology group. But to understand this we must first understand what a link diagram has to do with spaces. This is the theme of next section.

2.4 Framed links and blackboard framed links: encoding spaces

This section presents a fundamental result for this work. To get deep into this result's justification ideas would demand a lot of work not needed for our aim. But to get a good image of this result's meaning is easier. Let's get it.

Consider the unknot on \mathbb{S}^3 , *i.e.* a ring floating inside the 3-dimensional sphere. Now imagine a small tubular volume T , centered on this unknot. In this situation one could ask: is there a way to replace the interior of this tubular volume T with something different? Of course there is. We could replace T by “nothing”, leading to the “shape” of \mathbb{S}^3 with a toroidal hole in it. Although this is a correct thought, it is not what we are imagining here. We would like to replace T with something different, but not leaving a hole. In this case, is there something different of “replacing T by T' ”? The answer is also yes². We can replace T by another volume that fills in the hole and leads to a closed 3-manifold different from \mathbb{S}^3 . In fact, this idea generalizes.

Let's call a replacement like the one we mentioned above by *surgery*. Think of a link on \mathbb{S}^3 and a thin tubular volume T_i centered on each of its components. By analogy with the simple unknot case above, it is easy to note the possibility of obtaining different closed 3-manifolds by different surgeries (*i.e.* replacement of the thin tubular volumes T_i). In fact, as Lickorish [Lic62] and Wallace [Wal60] proved independently, any closed, connected, oriented 3-manifold may

²For theory and examples of these replacements see [Rol76].

be obtained by surgeries (the technical name is Dehn surgeries) of a link on \mathbb{S}^3 . So, by doing valid replacements of the thin tubular volumes centered on the components of a link, one can obtain any closed, connected, oriented 3-manifold. This result is very important once shows an intrinsic connection between links (*i.e.* embeddings of circles into the 3-dimensional sphere $\mathbb{S}^1 \rightarrow \mathbb{S}^3$) with spaces (*i.e.* closed, connected, oriented 3-manifold).

The information that defines how to do the surgery on a component (replacement of the tubular volume centered on that component) is called *framing*. So, with a link and a framing for each of its component, a space is defined. A framing as is justified in Chapter 9 of [Rol76] may be just an integer number. This leads to the definition we use of *framed link*: a link in \mathbb{S}^3 with an integer associated to each component. So, from a framed link it is possible to obtain a space. Start with the link, define the thin tubular volumes T_i centered on each component and, finally, apply the surgery on each T_i defined by the framing of component i .

In Section 2.2 we saw that a link diagram is a way to present a link. So, we can present framed links (spaces) by drawing a link diagram and writing an integer near each component: its framing. Although this is a nice way to present spaces, there is an even more concise way to do it based on two facts: (1) the writhe of a component, as is the framing of a component on a framed link, is an integer number associated to it on a link diagram; (2) by adding or removing one curl on a link diagram, application of one Reidemeister move I, one is able to, without modifying the link, increment by 1 or -1 the writhe of a component. Using these ideas we have the following result:

*given any framed link, it is possible to draw a link diagram
for it where the writhe of each component on the link diagram
is exactly the framing of the same component.*

For example, suppose we want a link diagram for the trefoil with framing zero. See Figure 2.8. We first draw a link diagram for the trefoil. While the framing of the component is not equal to its writhe on the diagram, we add curls until they match. Note that adding these curls do not change the underlying link.

A *blackboard framed link* or *BFL* is a link diagram presentation of a space. The space is

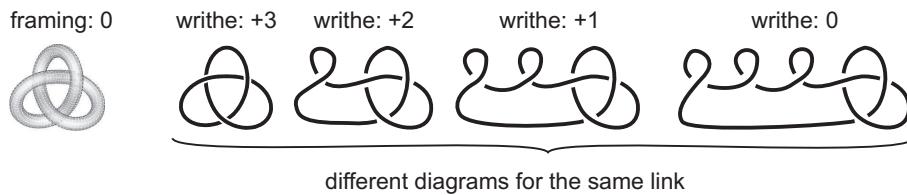


Figure 2.8 Aligning framing with writhe

the space induced by a framed link defined by: (1) the link of the framed link is the link on the diagram; (2) the framing of each component equals to the writhe of the same component on the diagram. So, any link diagram may be seen as a blackboard framed link inducing a space and, also, any space has blackboard framed link presentation for it. One of the main aims of this work is to identify all prime spaces that have a “small blackboard framed link” inducing it.

HOW TO FILL THE TOROIDAL HOLES?

As we said, the framing tells how to close a toroidal hole in \mathbb{S}^3 . But how is that done? Here is how. A hole is a solid torus embedded in \mathbb{S}^3 . If the framing is zero, then define c as a curve on the surface of the hole (*i.e.* a solid torus) parallel to the curve that follows the center of the hole (see the black line in the left drawing of Figure 2.9). If the framing is $n \neq 0$ then define c the same way except that it does n twists on the surface of the hole before completing a loop (see the bottom drawing in Figure 2.9). To close the toroidal hole is a matter of doing an abstract gluing: identify curve c with the meridian curve of a torus as is shown by the “glue” arrow in Figure 2.9. With this identification a complete homeomorphism is defined between “the hole” and “the shape” that replaces it in a different way.

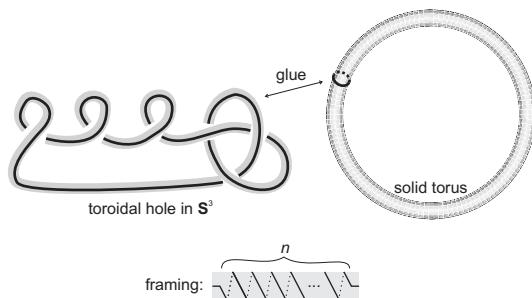


Figure 2.9 Gluing a solid torus to a toroidal hole: BFL-component and meridian become the same

2.5 A calculus on blackboard framed links

When do two framed links induce the same space? Kirby, in [Kir78], showed when. Fenn and Rourke [FR79] reformulated Kirby's ideas, and, from that point, Kauffman brought Kirby's result to the diagrammatic language of blackboard framed links. Figure 2.10 shows Kauffman's blackboard framed link formulation of Kirby's calculus (page 260 of [Kau91]).

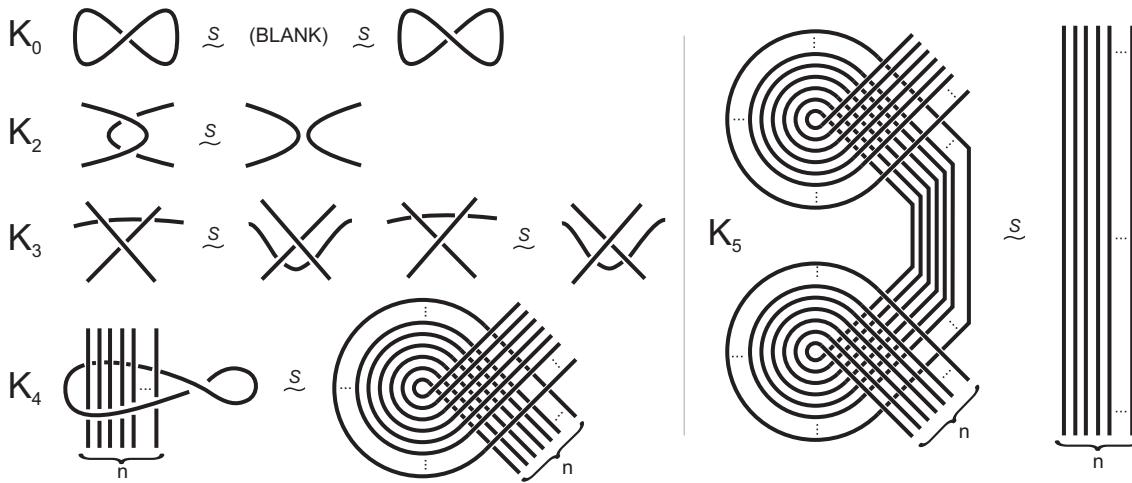


Figure 2.10 Kauffman's blackboard framed link formulation of Kirby's calculus

Some notes about Figure 2.10. The symbol $\overset{S}{\sim}$ between two blackboard framed links denotes that both BFLs induce the same space. When the symbol $\overset{S}{\sim}$ is used between two detached pieces of blackboard framed links (the correspondence on the boundary of these pieces must exist and should be easily identifiable as in Figure 2.10) it means that exchanging these pieces on any blackboard framed link do not change the induced space. Move K_0 states that we can create or eliminate disjoint knots in form of ∞ as we wish, that the induced space does not change. Note that there is no K_1 . We reserved this label for a move shown later. Moves K_2 and K_3 are, respectively, Reidemeister moves RE_2 and RE_3 . So, regular isotopic blackboard framed links (this relation is also defined for BFL, once BFLs are link diagrams) induce the same space,

$$A \xrightarrow{R} B \implies A \overset{S}{\sim} B,$$

because there is a finite sequence of moves in $\{K_2, K_3\}$ connecting them. Moves K_4 and K_5 are

actually a family of infinite moves indexed by a parameter $n \in \mathbb{N}$.

Kauffman's reformulation of Kirby's result states that

*if A and B are blackboard framed links, then A and B induce the same space
if and only if applying a finite sequence of moves in $\{K_0, K_2, K_3, K_4(n), K_5(n)\}$
one can transform A into B .*

As an application of this result, see Figure 2.11. All drawings are blackboard framed link versions of the same space as they are all connected by a finite sequence of moves in $\{K_0, K_2, K_3, K_4(n), K_5(n)\}$. One can verify, by applying the surgeries on \mathbb{S}^3 defined by each of these BFL's, that the resulting space is $\mathbb{S}^2 \times \mathbb{S}^1$ (See [Rol76]).

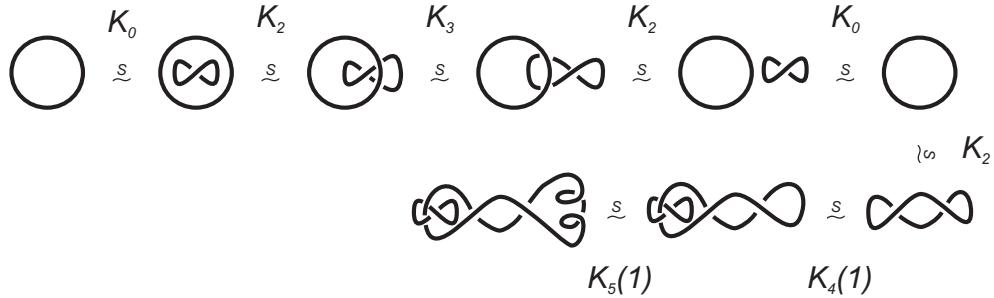


Figure 2.11 Example of BFL's inducing the same space: $\mathbb{S}^2 \times \mathbb{S}^1$

We denote by \mathcal{K}^0 Kauffman's set of moves or axioms on Figure 2.10:

$$\mathcal{K}^0 = \{K_0, K_2, K_3, K_4(n), K_5(n)\}.$$

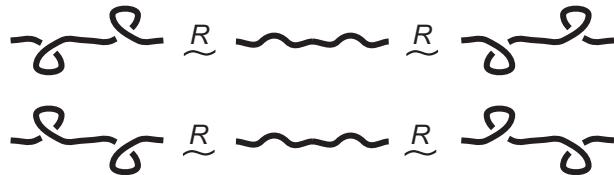
We reserve the remainder of this section to show that the move defined on Figure 2.12, called the *ribbon move*, and denoted by K_1 , can replace the infinite class of moves $K_5(n)$ on \mathcal{K}^0 leading to a simpler and equivalent calculus \mathcal{K}^1 . Let's start by showing that the ribbon move



Figure 2.12 The *ribbon move* or K_1

is a consequence of \mathcal{K}^0 . But, before, we need a simple lemma.

Lemma 2.5.1 (Whitney trick). *Blackboard framed links that differ by the pieces below are regular isotopic, so they induce the same space.*



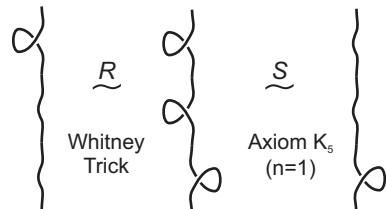
Proof. The four forms of this lemma are obtained by combined reflections on the x and y axis of transformation



Note that each passage is a regular isotopy move in $\{K_2, K_3\}$. □

Proposition 2.5.2. *The ribbon move follows from \mathcal{K}^0 . More specifically, from Whitney trick and the $n = 1$ version of axiom K_5 .*

Proof. The following picture speaks by itself.



□

To show that K_1 actually can replace $K_5(n)$ it remains to prove that with the remaining moves and K_1 (*i.e.* moves in $(\mathcal{K}^0 \setminus \{K_5(n)\}) \cup \{K_1\}$), we can reproduce $K_5(n)$, for any n . Before doing this, we define some notation and show some necessary results.

Figure 2.13A shows a thick cable with an n near it. This notation is a shortcut for n parallel thin lines (the ones we have been using). Figure 2.13B shows a thick cable with an n near it doing a curl. This notation is a shortcut for n parallel lines doing a curl and respecting the

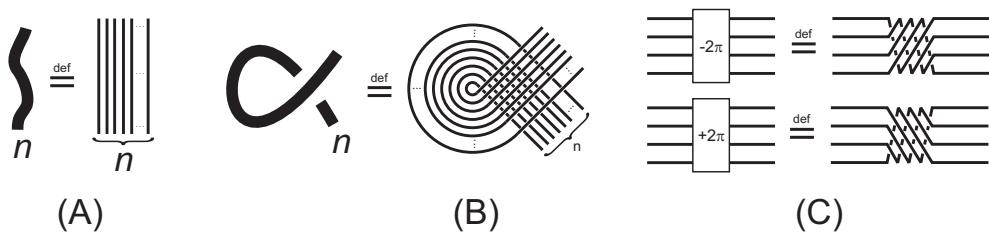
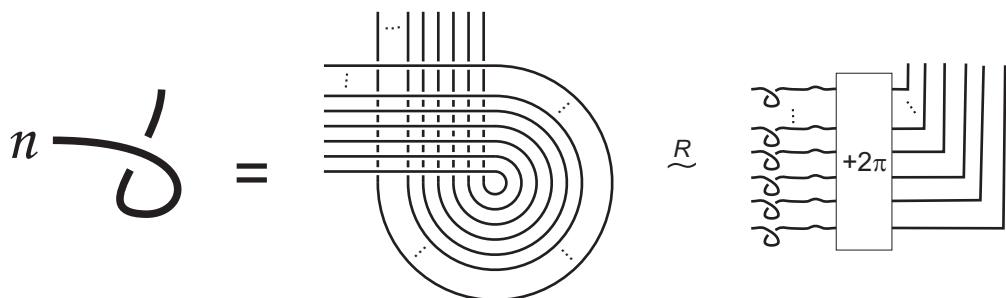


Figure 2.13 Some notation

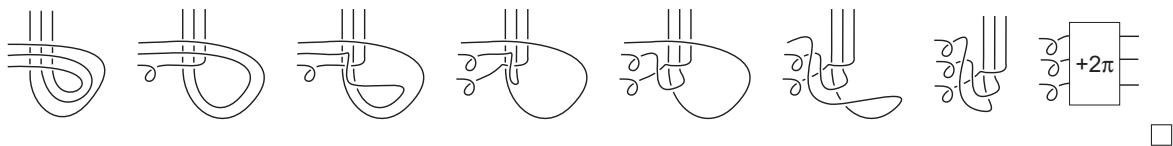
crossings as is shown. When a thicker cable appears without an n and thin cables appear on the same link diagram, the n is implicit for the thicker cable. Figure 2.13C shows the definition of a $+2\pi$ twist box and of a -2π twist box both with size equals 4 (number of “inputs”). The extension of this definition for any size ≥ 2 is immediate.

Now we show the last result before proving that K_1 may replace $K_5(n)$. This result uses the $\pm 2\pi$ twist boxes notation that we defined earlier.

Lemma 2.5.3. *Regular isotopy leads to*



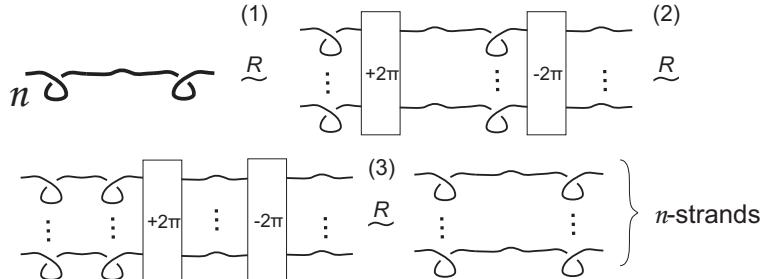
Proof. Generalization of the following case where $n = 3$.



Lemma 2.5.4. Regular isotopy alone is capable of simplifying the left configuration below with $2i^2$ crossings down to the right one with $2i$ crossings.

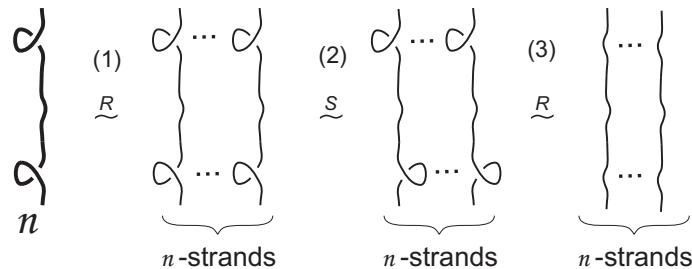


Proof. This proof is taken from [Kau91].



Theorem 2.5.5. *The ribbon move K_1 together with regular isotopy moves K_2 and K_3 implies move $K_5(n)$.*

Proof. Follow this text and the figure below. We begin with the left side of K_5 move. The passage (1) is the application of Lemma 2.5.4. The passage number (2) is the application of ribbon moves on the bottom curl of each strand. The passage number (3) is the application of Lemma 2.5.1 (Whitney trick) on each strand. The rightmost image is the right side of move K_5 , so the theorem is proved.



Now we present Figure 2.14 that shows together all moves of \mathcal{K}^1 calculus:

$$\mathcal{K}^1 = \{K_0, K_1, K_2, K_3, K_4(n)\}.$$

Two BFLs induce the same space if and only if there is a finite sequence of moves in $\{K_0, K_1, K_2, K_3, K_4(n)\}$ transforming one BFL into the other.

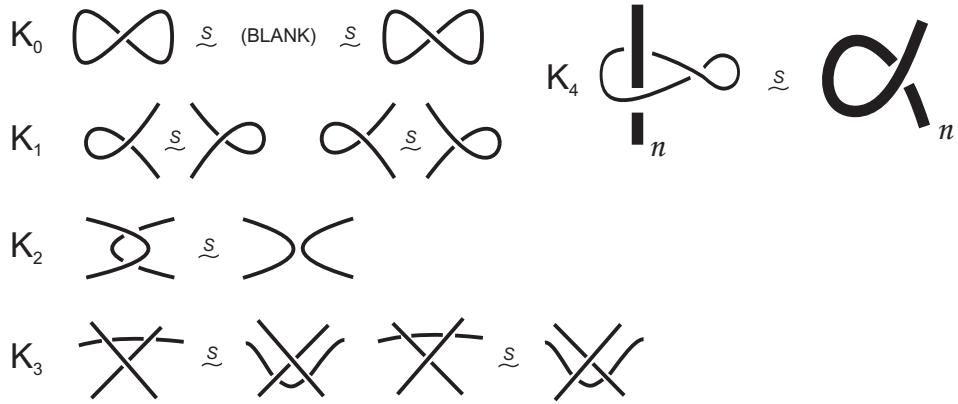
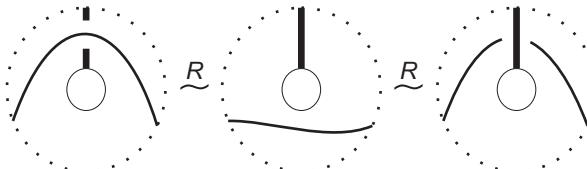


Figure 2.14 BFL calculus \mathcal{K}^1 , obtained by replacing $K_5(n)$ by K_1 (ribbon move)

We end this section with some results that are consequence of BFL calculus.

Lemma 2.5.6 (Passing Wall Lemma). *These patterns are all regular isotopic*



Proof. This is just the idea: start passing the horizontal curve under xor (*i.e.* exclusive or) over all the crossings of the white ball using the moves K_2 and K_3 . \square

Lemma 2.5.7 (Passing Cross Lemma). *The first two and last two patterns are all regular isotopic*

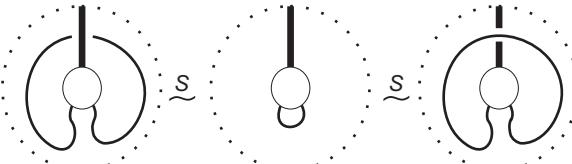


Proof. Follow the picture below. It proves that the first two patterns of this lemma are regular isotopic. On the passage (1) the pattern is rearranged to show the structure of the Passing Wall Lemma. On passage (2) this lemma is applied. On passage (3) we use the regular isotopy basic move K_3 and rearrange its result on passage (4), arriving at the pattern wanted. The proof for the last two pattern is analogous to this one.

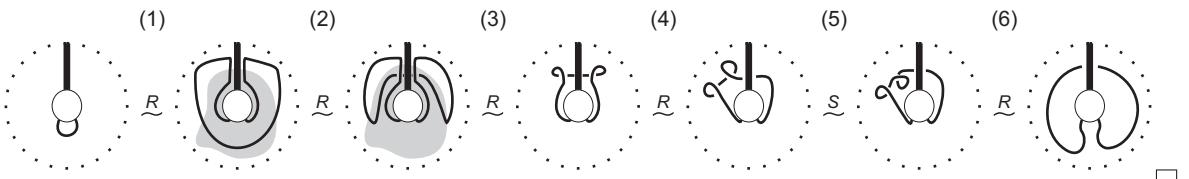


□

Lemma 2.5.8 (Jumping Rope Lemma). *The following patterns induces the same space.*



Proof. Follow the picture below. It proves that the first two patterns of this lemma induce the same space. On the passage (1) the pattern is rearranged to show the structure of the Passing Wall Lemma. On passage (2) this lemma is applied. On passage (3) we just rearrange the pattern to stress the two curls on the different sides of the cable. On passage (4) the Passing Cross Lemma is repeatedly applied until the right curl traverse all the cable. On passage (5) the ribbon move is applied. Finally, the Whitney trick is used on passage (6). We have thus proved that the first two patterns of this lemma indeed induce the same space. From these steps it is clear how the last pattern of this lemma is also proved to induce the same.



□

CHAPTER 3

Blinks

3.1 From blackboard framed links to blinks

In Section 2.4 we saw that a blackboard framed link or BFL is a link diagram that induces a space. We now describe a procedure to build a new object from a blackboard framed link.

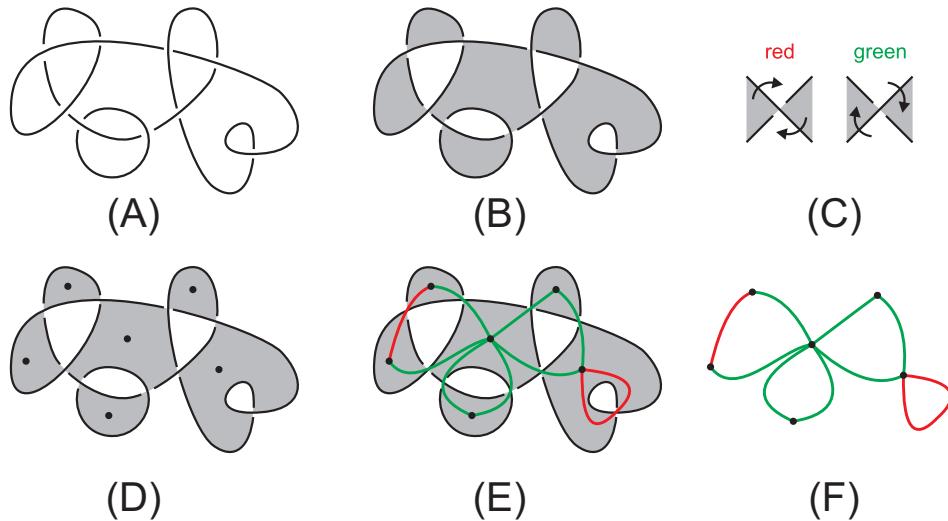


Figure 3.1 Procedure BFL2BLINK

Follow the steps described in this paragraph on the example of Figure 3.1. Start with a BFL (Figure 3.1A). We say that two faces on a BFL are *adjacent* if they share a curve (not just a point) that separates them. The faces of a BFL can be colored black or white such that no two adjacent faces have the same color. To do this first define all faces as *unassigned*: no color. Then assign white to the external face of the BFL. Then repeat this: assign white a face that is adjacent to a black face or assign black a face that is adjacent to a white face, until all faces are assigned white or black. This procedure always leads to a unique coloring. Figure 3.1B shows the resulting color assignment of the BFL of Figure 3.1A with the black faces painted in

gray and white faces painted white. The next step is to classify each crossing of the BFL as *red* or *green* (Figure 3.1C). A crossing is *red* if the overcrossing line, on the clockwise direction, separates a black face from a white face. A crossing is *green* if the overcrossing line, on the clockwise direction, separates a white face from a black face. Now choose one interior point on each black face as shown in Figure 3.1D. For each crossing c , let A and B be the chosen interior points of the two black faces involved in c . Draw a simple curve from A to B such that: (1) it passes through the crossing point of c ; (2) all of its points are black region points or the crossing point of c ; (3) its points that are not end-points do not intersect any other crossing curve. Note that A and B can be the same point. In this case the curve is a *loop*. Figure 3.1E shows the result after drawing all such curves. Figure 3.1F shows the new object after erasing the underlying BFL that guided its construction. This resulting object is named a *blink* and its general definition is a plane graph with each edge colored either red or green. Note that a blink may have loops and multiple edges. Each chosen point on each black face is called a *blink vertex* and each simple curve is called a *blink edge*. The *size of a blink* is its number of edges. The blink on Figure 3.1F has size equal to 9.

We name the procedure described in last paragraph as BFL2BLINK. It is always possible to apply it in backwards and obtain a blackboard framed link from a blink. So the BFL2BLINK when applied in backwards becomes the BLINK2BFL procedure. A blink and a BFL related by the BFL2BLINK or the BLINK2BFL are said to be *associated*. So the BFL on Figure 3.1A and the blink on Figure 3.1F are associated.

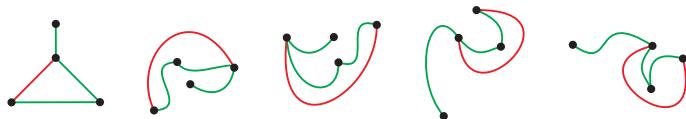


Figure 3.2 Blinks

In a strict sense, all blinks on Figure 3.2 are different. Their edges are different curves, so, as plane graphs, they are different. But something connects all these blinks: there exists a plane isotopy from any of these blinks to any other. From now on, we say two *blinks are equal* if they are “connected” by a plane isotopy, otherwise they are *different*. We use the same convention with blackboard framed links: we say two *BFLs are equal* if they are “connected” by a plane

isotopy, otherwise they are *different*.

We now claim that all associated BFLs of a class of equivalent blinks (blinks connected by a plane isotopy) are also connected by a plane isotopy and vice-versa. So everything fits together and we may think of a blink as a class of equal blinks and a BFL as a class of equivalent BFLs. In this sense, a blink (the whole class of equivalence) is associated to only one BFL (the whole class of equivalence). By Proposition 3.1.1 we know that a BFL (the whole class) induces only one space. This allows us to define the *space of a blink* (the whole class) as the space induced by the associated BFL.

Proposition 3.1.1. *If there is a plane isotopy between two blackboard framed links then they induce the same space.*

Proof. Every element involved in the space construction from a BFL is preserved under plane isotopy. □

3.2 A calculus for blinks

In Section 2.5 we presented two sets of blackboard framed link moves: \mathcal{K}^0 and \mathcal{K}^1 . These sets have the strong property of connecting BFLs if and only if they induce the same space. Here we present a blink version of these sets: a set of blink moves named \mathcal{B} . Two blinks induce the same space if and only if there is a finite sequence of moves in \mathcal{B} transforming one blink into the other. The main result of this section is the following Theorem:

Theorem 3.2.1. *Two blinks induce the same space if and only if they are connected by a finite sequence of moves, where each one of them is one of the ones displayed in Figure 3.3, or its red/green twin.*

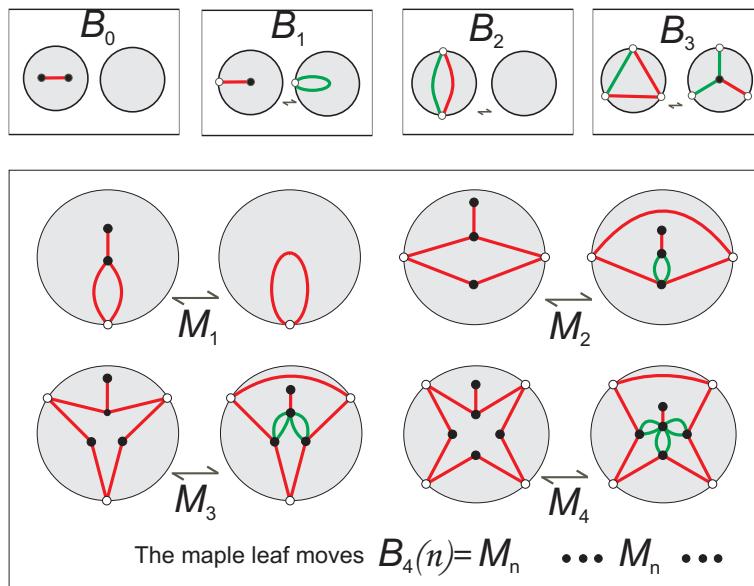


Figure 3.3 Blink formal calculus by local coins replacements

Some explanation on Figure 3.3 is in order. The portion of the blinks which are altered is depicted in an open disk named a *coin*. The interior of the coins modifies precisely as indicated. The vertices interior to a coin are displayed as small black circles. The intersection of the blink with the complement of the coin is a subset of vertices, the *attachment* vertices displayed as small white circles. In this way a point in the interior of an edge of the blink is either inside or else outside the coin. We allow arbitrary identifications in the attachment

vertices via deformations of the coins so as to preserve their interiors (as long as they preserve planarity).

In \mathcal{B} there are four simple moves twins: B_0, B_1, B_2, B_3 , and an infinite family $B_4(1) = M_1, B_4(2) = M_2, B_4(3) = M_3, \dots$, named the *maple leaf moves*, $B_4(n) = M_n$. By an abuse of notation, each move B_i , ($i = 0, 1, 2, 3$) or M_n , $n \in \mathbb{N}$, denotes either the move depicted in Figure 3.3 or its red/green twin.

The maple leaf move M_n is the manifestation in the blink of the move μ'_n on BFLs treated in the subsection which follows the next one. Move μ'_n will replace move α_n which is another name for move $K_4(n)$ shown on Figure 2.14. We stress the point that the set of axioms in the above formal \mathcal{L} -calculus is a minimal one. For instance, we anticipate the fact that a move obtained from a move in \mathcal{B} by taking planar duals of the blinks is a consequence of \mathcal{B} .

In BFLs, μ_n is equivalent to α_n

We now show that the α_n axiom on BFLs can be replaced by a new axiom: μ_n . This is useful because the number of crossings involved in μ_n is linear on n while in α_n is quadratic. The axiom μ_1 is defined to coincide with α_1 . For $n > 1$, μ_n is defined by Figure 3.4.

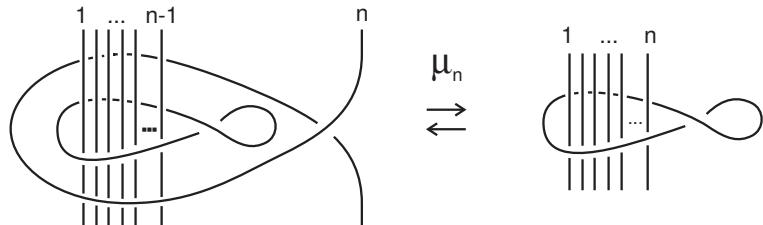
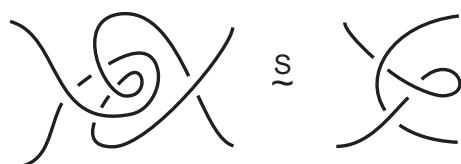


Figure 3.4 Definition of μ_n , $n \geq 2$.

Lemma 3.2.2. *The heart-shape smoothing move depicted below is obtained regular isotopies, and a single ribbon move.*



Proof. Follow the proof in the figure below. The ribbon move is used in the second configuration to prepare for the application of Whitney's trick. After this is done we obtain the third configuration. All other moves are regular isotopies.



Lemma 3.2.3. *The move μ_n does not change the induced space.*

Proof. The proof is done for a class of moves that generalizes μ_n , depicted in Fig. 3.5. The

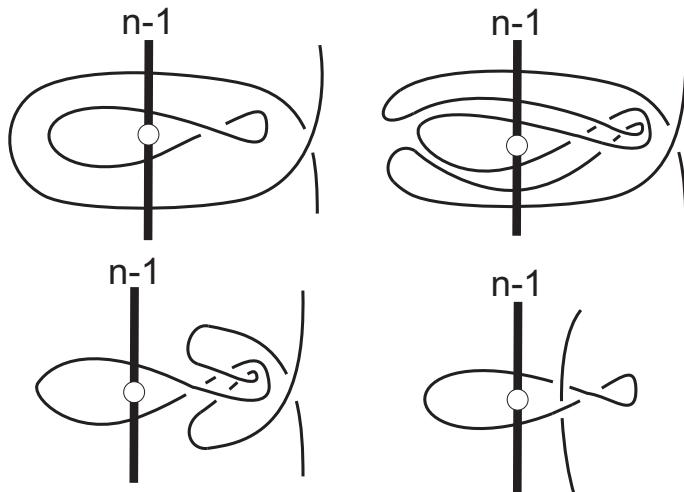


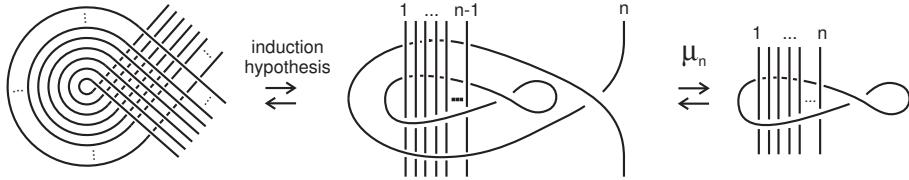
Figure 3.5 Moves that generalize μ_n .

white circle separating the cable of $n - 1$ parallel strands means that the $2(n - 1)$ individual strands in its boundary are paired arbitrarily (maintaining planarity, of course). The precise undercrossings and overcrossings of the individual strands in the cable are also arbitrary and

are left undisplayed: we indicate this by a real crossing between the thick line and the thinner ones. The first passage from the first to the second configuration, is a Kirby handle slide (page 122 of [KL94]) obtained by doubling the ∞ -shaped component and performing the connected sum at the external encircling component. Note that (irrespectively of the individual crossings not shown) the third configuration is reachable from the second by Reidemeister moves of type II because consecutive crossings along the individual strands inside the cable are both over or both under. The third passage is a consequence of the heart-smoothing move of Lemma 3.2.2 \square

Lemma 3.2.4. $\mu_1, \mu_2, \mu_3, \dots \Rightarrow \alpha_n$ for all $n \geq 1$. In words: if you have the infinite sequence of moves μ_1, μ_2, \dots then you can reproduce α_n for any $n \geq 1$.

Proof. By induction on n . It is obvious that we have α_1 from $\mu_1, \mu_2, \mu_3, \dots$ once, by definition, $\alpha_1 = \mu_1$. Suppose we have how to reproduce α_i from μ_1, μ_2, \dots for all $i < n$. Then, for n , as can be seen on the Figure below, we can apply the induction hypothesis on the internal $n - 1$ strands of the curl and then apply the μ_n , thus obtaining α_n .

 \square

In BFLs, μ_n is equivalent to μ'_n

By replacing α_n with μ_n we have simplified our axioms in the sense that μ_n has fewer crossings than α_n . But, before translating our axiom system on blackboard framed links to the blink language, we define the move μ'_n that is equivalent to μ_n but has a “better” translation to blinks. The axiom μ'_1 is equal to μ_1 . For $n \geq 2$, μ'_n is defined by the schema on Figure 3.6.

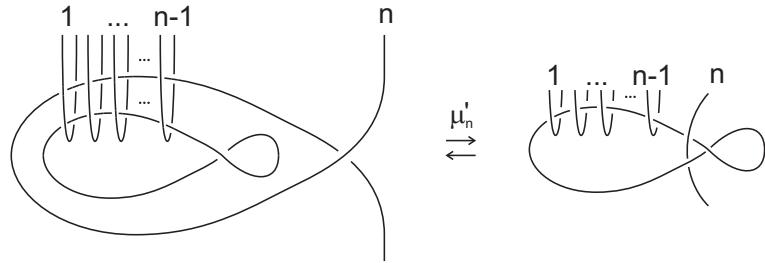
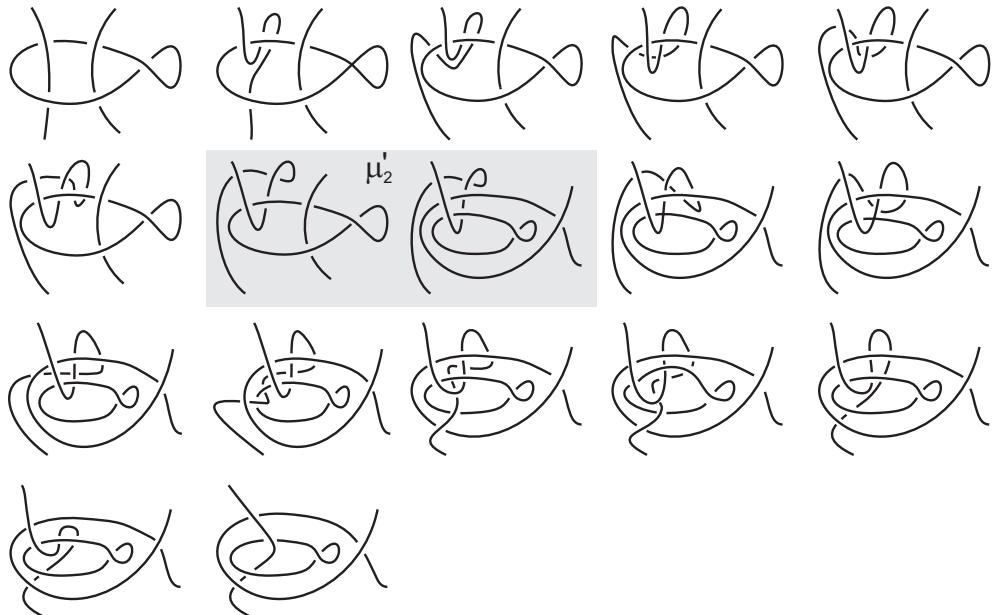


Figure 3.6 The axiom μ'_n ($n \geq 2$) : “better” blink translation than μ_n

Proposition 3.2.5. $(\text{Regular isotopy and } \mu'_n) \Rightarrow \mu_n, \text{ for } n \geq 1.$

Proof. For $n = 1$ it is obvious because $\mu_1 = \mu'_1$. The figure below shows the proof for $n = 2$. Beginning with the right side of μ_2 we apply regular isotopy (*i.e.* moves K_2 and K_3) until we get to a pattern where μ'_2 can be applied (the second pattern on the second line). We apply it and then use again regular isotopy to get to the pattern of the left side of the μ_2 axiom. As all these transformations are both ways, we have proved the case for $n = 2$. The proof for $n > 2$ is analogous to the $n = 2$ case and will not be shown.



TRANSLATION OF BLACKBOARD FRAMED LINK CALCULUS TO BLINK CALCULUS

The translation from \mathcal{K} into \mathcal{B} is depicted in Figure 3.7.

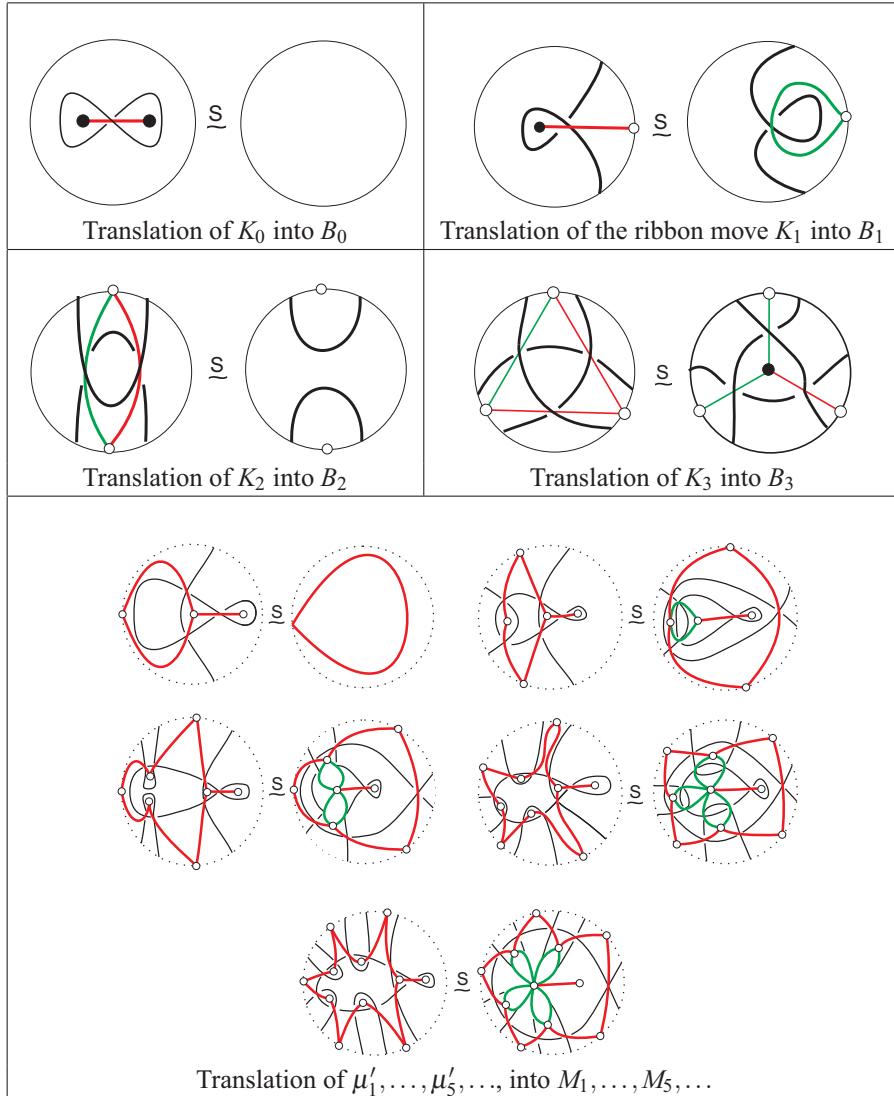


Figure 3.7 Translation of BFL calculus to blink calculus

Proof. (of Theorem 3.2.1.) The proof is a direct translation of the moves K_0, \dots, K_3 and $\mu'(1), \dots, \mu'_n, \dots$, into the moves B_0, \dots, B_3 , and M_1, \dots, M_n, \dots \square

3.3 g-blanks

Let B be a blink. We now describe a procedure to define, from B , a 4-regular graph G_B named a *g-blink*. This procedure is called BLINK2GBLINK and associates to any blink (topological object) a unique g-blink (combinatorial object). Let u be a vertex of B and $e_0, \dots, e_{\delta_u-1}$ be the edges incident to u ordered in clockwise direction (e_0 may be any edge). For each edge e_i with $i \in \{0, \dots, \delta_u - 1\}$ we define two vertices in G_B : one labeled $(u, e_i, 2i)$ positioned close to e_i but before it in clockwise direction; the other is labeled $(u, e_i, 2i+1)$ positioned close to e_i but after it in clockwise direction (see Figure 3.8A). If $(u, e, 2j)$ and $(u, e, 2j+1)$ are vertices of G_B then they are the ends of a *face-edge* of G_B (Figure 3.8B). If $(u, e, 2j+1)$ and $(u, f, 2j+2 \bmod 2\delta_u)$ are vertices in G_B then they are the ends of a *angle-edge* in G_B (Figure 3.8B). If (u, e, j) and (v, e, k) are vertices in G_B and the parity of j is different from the parity of k then they are the ends of a *vertex-edge* of G_B (Figure 3.8C). If (u, e, j) and (v, e, k) are vertices in G_B and the parity of j is equal to the parity of k then they are the ends of a *zigzag-edge* of G_B (Figure 3.8D).

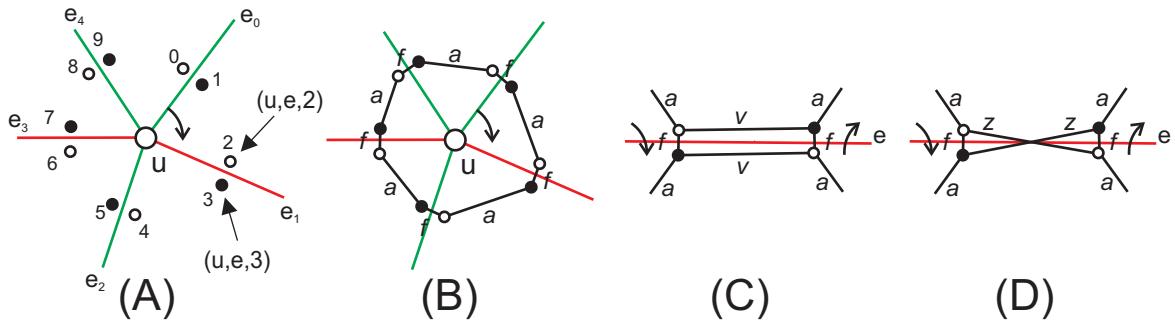


Figure 3.8 Elements on the definition of a g-blink from a blink

We define a bipartition V_0 and V_1 of the vertices of G_B like this: a vertex v labeled with $(_, _, 2j)$, for some integer j , is said to be a *parity zero vertex* and it is in V_0 ; a vertex v labeled with $(_, _, 2j+1)$, for some integer j , is said to be a *parity one vertex* and it is in V_1 . On the example of Figure 3.9 V_0 are the white vertices and V_1 are the black vertices.

If B has n edges, then G_B has $4n$ vertices and $8n$ edges. Each vertex of G_B has degree 4 and is incident to a face-edge, an angle-edge, a vertex-edge and a zigzag-edge. If v is a vertex in

G_B we denote by $\text{adj}_v(v)$, $\text{adj}_f(v)$, $\text{adj}_a(v)$ and $\text{adj}_z(v)$ the vertices adjacent to v by vertex-edge, face-edge, angle-edge and zigzag-edge respectively.

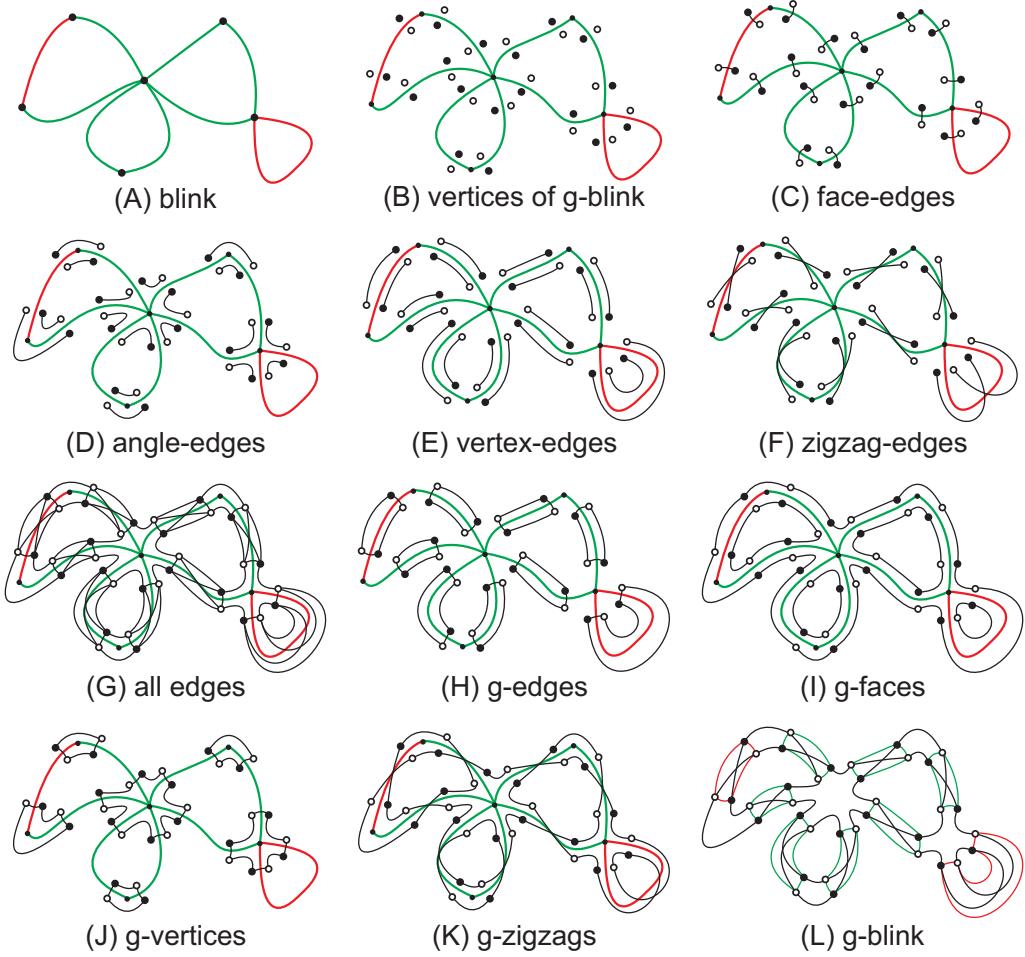


Figure 3.9 Blink, g-blink and attributes: an example

A *g-edge* is a polygon on a g-blink whose edges alternate between face-edges and vertex-edges (Figure 3.9H). A g-edge has always 4 edges and 4 vertices and is associated to an edge on a blink (note that the vertices of a g-edge are of the form $(_, e, _)$). If the corresponding blink edge of a g-edge is red then this g-edge is also red. If the corresponding blink edge of a g-edge is green then this g-edge is also green. A *g-face* of a g-blink is any polygon with vertex-edge alternated with angle-edge (Figure 3.9I). Each of these polygons corresponds to a face of the blink. A *g-vertex* of a g-blink is any polygon with face-edge alternated with angle-edge (Figure 3.9J). Each of these polygons corresponds to a vertex of the blink. A *g-zigzag* of

a g-link is any polygon with angle-edge alternated with zigzag-edge (Figure 3.9K). Each of these polygons corresponds to a component on the blackboard framed link associated with the blink.

Now, using the notation defined above, we state a definition for *g-link*. A *g-link* is a graph that satisfies the following six conditions:

- (1) Its vertices are partitioned in V_0 and V_1 (white and black vertices of Figures 3.8 and 3.9);
- (2) vertices in V_0 are adjacent by face-edge, vertex-edge and angle-edge to vertices in V_1 and by zigzag-edges to vertices in V_0 ; vertices in V_1 are adjacent by face-edge, vertex-edge and angle-edge to vertices in V_0 and by zigzag-edges to vertices in V_1 ;
- (3) each vertex is incident to exactly one face-edge, one vertex-edge, one angle-edge and one zigzag-edge;
- (4) each polygon of alternating face-edge and vertex-edge has 4 edges (is a *g-edge*) and is assigned color red or green (see the *g*-edges on Figure 3.9L) or, equivalently, a pair of zigzag edges of the same *g-edge* is labeled one edge as *overcrossing* and the other edge as *undercrossing*;
- (5) the zigzag-edges are the diagonals of the *g*-edges connecting the vertices with the same parity. Observe that this implies that zigzag-edges are redundant when we know the *g*-edges. They may be omitted when presenting a *g-link* and calculated or shown when needed. For example Figure 3.9L can be easily restored from Figure 3.10;
- (6) the 3-regular graph obtained by not considering the zigzag edges is a planar graph (see Figure 3.10).

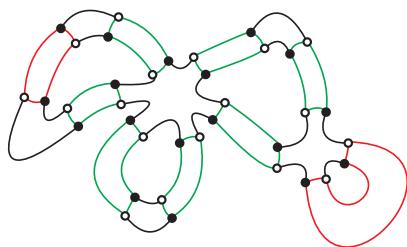


Figure 3.10 g-link of Figure 3.9L without zigzag-edges: a planar graph

It is important to note that a g-blink is a combinatorial object, although, to visualize the connection with blinks, we show drawings of g-blanks where edges are curves and vertices are points. These drawings are just to help visualization. The g-blink relevant information is combinatorial: a set of vertices, the neighbor of each vertex by each type of edge, the parity of the vertices and the color of the g-edges.

Note that the definition of g-blanks is independent of blinks. As we saw, it is a 4-regular graph with some additional structures and constraints. Now, with this observation in mind, consider the situation shown on Figure 3.11. The blinks of Figure 3.11A and Figure 3.11D are different in the strict sense (their plane graphs are different) but are different¹ in a looser sense also: there is no plane isotopy between these two blinks (we would have to tear the red loop on Figure 3.11A). On the other hand, their g-blanks are the same as can be seen on Figure 3.11C and Figure 3.11F (remember that the edges on g-blanks presented as drawings are important only to define who is the neighbor of who, their curve shape is not important).

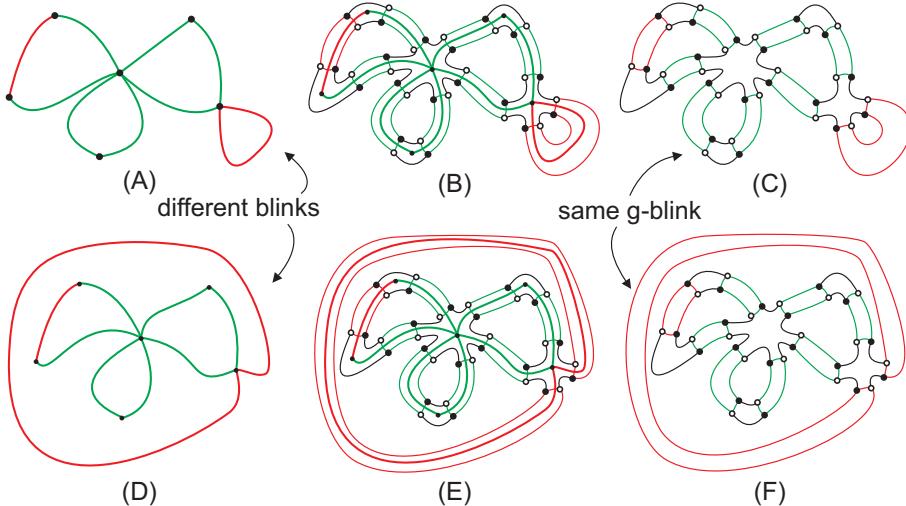


Figure 3.11 Different blinks with the same g-blink

To obtain a blink from a g-blink we must first embed (forgetting zigzag-edges) the g-blink on a plane respecting the convention we used on the procedure `BLINK2GBLINK`: the orientation of all g-vertices induced by orienting the face-edges from white (parity 0 vertex) to black (parity 1 vertex) is always clockwise. Let's name this convention as *convention* \circlearrowright . The embed-

¹When referring to blinks, this looser sense concept of “difference” is the one we adopted as our convention on Section 3.1. We could just say the blink of Figure 3.11A and the blink of Figure 3.11D are different.

ding part is always possible once a g-blink without zigzag-edges is a planar graph. It is always possible to satisfy convention \circlearrowleft . For example, if all g-vertices are counterclockwise we may reflect horizontally or vertically all the embedding correcting the situation. If all g-vertices are correct except for the external g-vertex (which is the external face in this case) then we may redraw the curve of an external angle-edge making it go around all the embedding (see edge e for an example of this on Figure 3.19). If a blink B is obtained from a g-blink G then we say that G induces B .

What are the blinks induced by a g-blink? We must answer this to continue. Name A the blink of Figure 3.11A and B the blink on Figure 3.11D. We know there is no plane isotopy between A and B . But A and B are both obtainable from the same g-blink as Figure 3.11 shows. How could we connect A and B ? The answer is shown on Figure 3.12. On the sphere S^2 there is an isotopy between A and B . One can check that blinks obtainable from a g-blink are blinks that when embedded on a sphere (draw it on the plane and then use stereographic projection to get this embedding) may be transformed one into the other by an isotopy of the sphere.

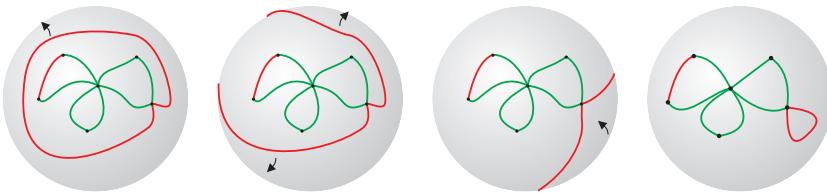
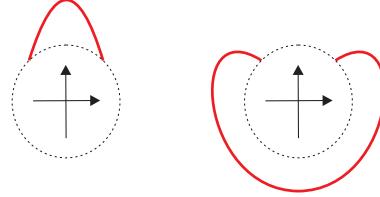


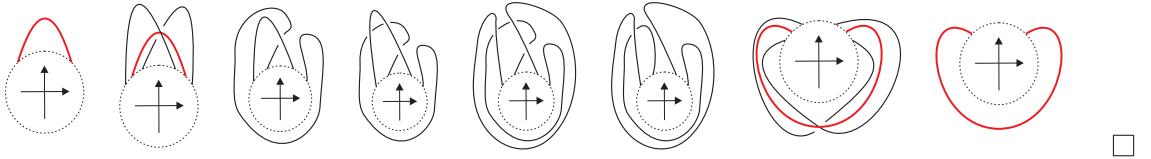
Figure 3.12 Isotopy on the sphere S^2

Do the blinks obtainable from a g-blink induce the same space? Once we are, at the end, interested in spaces, g-blink would not be a useful object if its blinks induced different spaces. The answer is yes. All blinks of a g-blink induce the same space. The reason is the Blink Jumping Rope Lemma 3.3.1. Note how this Lemma is exactly what is needed to prove that the blinks of Figure 3.11A and Figure 3.11D induce the same space.

Lemma 3.3.1 (Blink Jumping Rope Lemma). *The (meta-)blinks shown below induce the same space.*



Proof. Follow the figure below. First we show the BFL associated with the left blink (the crossing correspondent to red edge). Then we apply the Jumping Rope Lemma 2.5.8 for BFLs and regular isotopy to get to our target blink. As our moves preserve the space, we have the result.



With this last result we now define the *space of a g-blink* as the space induced by any blink induced by the g-blink. As we saw, this space is unique. Observe that the blinks induced by a g-blink are divided into $|F|$ plane isotopy classes, where F is the set of g-faces of the g-blink. For each g-face $f \in F$ there is a blink which has the face corresponding to f as its external face. So, not considering symmetries that may occur, each g-blink corresponds to $|F|$ distinct blinks.

Although our initial motivation was to work with blinks, in practice we did this indirectly through g-blanks. It turned out that this was more adequate once g-blanks are simpler (*i.e.* to encode a single blink we would have to have the current g-blink information plus an extra one: which g-face is the external one), more expressive (*e.g.* one g-blink actually encodes $|F|$ blinks that induce the same space) and we could prove a set of g-blink interesting properties that enabled us to do the experiments we wanted (*e.g.* find all distinct spaces that had a small blink/BFL/g-blink presentation).

Before ending this section, one last observation: note that a single g-blink also encodes $|F|$ BFLs: the ones obtained from the $|F|$ blinks by the BLINK2BFL procedure. So we may see a g-blink through $|F|$ blink views and through $|F|$ BFL views.

3.4 Homology group from g-link

The homology group is a topological invariant obtained from the abelianization of the fundamental group. It is easy to obtain a presentation of the fundamental group from a blackboard framed link. However, the problem of deciding if two presentations of a group are isomorphic is an undecidable problem. This does not occur with the homology group. It is presented as a pair (b, t) , where b is the *Betti number* and $t = (t_1, \dots, t_p)$ is a sequence with $p \geq 0$. Each t_i in t is called the i -th torsion coefficient. This sequence also satisfies: $t_1 \geq 2$, if $p > 0$ and t_i divides t_{i+1} for $i < p$. The homology group (b, t) may be obtained from the Smith Normal Form of the linking matrix of a BFL (see [WN99] for definition and how to obtain this normal form). This is so because the linking matrix is a relation matrix for the homology group. The number of zeros in this diagonal is the Betti number b and appear all at the end. Throw away the entries equal to 1. The torsion coefficients $t = (t_1, \dots, t_p)$ are the other entries on the diagonal. The remainder of this section shows how to calculate the linking matrix from a g-link.

Let $Z = \{z_1, \dots, z_k\}$ be the set of g-zigzags of the g-link G . So every z in Z is a polygon with alternating zigzag-edges and angle-edges. We want to define a matrix N of dimension $k \times k$. First we orient each g-zigzag z in Z . This can be done by mounting a list v_1, \dots, v_m of the vertices of z such that v_i is adjacent to v_{i+1} by an edge in z , v_m is adjacent to v_1 by an edge in z and the orientation of the edges in z is defined by the way its end vertices appear in the list: the edge of z between v_i and v_{i+1} is oriented from v_i to v_{i+1} for $1 \leq i \leq m-1$ and the edge of z whose ends are v_1 and v_m is oriented from v_m to v_1 . Initialize all entries of N with zero. For each g-edge a , let u and v be vertices in a such that: u has parity zero (in V_0 or white); v has parity one (in V_1 or black); z_i is the g-zigzag incident to u ; z_j is the g-zigzag incident to v ; the zigzag-edge in z_i incident to u and u' is oriented this way from u to u' ; the zigzag-edge in z_j incident to v and v' is oriented this way from v to v' . Aligning each g-edge a to this standard leads to one of the situation shown in Figure 3.13 where the sign s_a of a is also shown. If a is green and u is adjacent to v by a face-edge then $s_a = +1$ (Figure 3.13A). If a is red and u is adjacent to v by a face-edge then $s_a = -1$ (Figure 3.13B). If a is green and u is adjacent to v by a vertex-edge then $s_a = -1$ (Figure 3.13C). If a is red and u is adjacent to v by a vertex-edge

then $s_a = +1$ (Figure 3.13D).

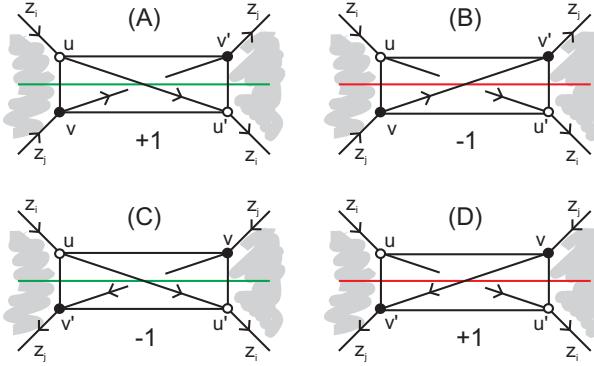


Figure 3.13 Signs of a g-edge a for the linking matrix

Knowing the sign of a we update N by

$$N_{i,j} \leftarrow N_{i,j} + s_a$$

and, if $i \neq j$, we also do

$$N_{j,i} \leftarrow N_{j,i} + s_a.$$

Note that N is symmetric. Once N is defined, to calculate the homology group is to calculate the Smith Normal Form of N and then collect the pair (b, t) as was already described above.

3.5 Quantum invariant from g-link

In this section we show how to calculate the Witten-Reshetikhin-Turaev quantum invariant for a space from a g-link inducing it. This calculation is a translation to g-links of the one showed on [Lin95] that operates over blackboard framed links. For further details for this invariant see [KL94].

The Witten-Reshetikhin-Turaev invariant for a space M is a function $\text{wrt}_M : \{3, 4, \dots\} \rightarrow \mathbb{C}$. This function maps every integer $i \geq 3$ into a complex number $\text{wrt}_M(i) \in \mathbb{C}$. If two spaces A and B satisfy $\text{wrt}_A(i) \neq \text{wrt}_B(i)$ for some i then A and B are different spaces.

Let M be a space and $r \geq 3$ an integer for which we want to obtain $\text{wrt}_M(r)$. Let $\mathcal{I} = \{0, 1, \dots, r-2\}$. Let A be a $(4r)$ -primitive-root of 1. For $n \in \mathcal{I}$ define

$$\Delta_n = (-1)^n \frac{A^{2n+2} - A^{-2n-2}}{A^2 - A^{-2}},$$

$$[n] = \frac{A^{2n} - A^{-2n}}{A^2 - A^{-2}} = (-1)^{n-1} \Delta_{n-1}.$$

Define $q = A^2$ and, for reasons inherited from physics, call $[n]$ by *q-deformed quantum integer* and

$$[n]! = \prod_{1 \leq m \leq n} [m]$$

by *q-deformed quantum factorial*. Note that although A is a complex number, Δ_n and $[n]$ are real numbers. Three numbers $a, b, c \in \mathcal{I}$ are said to be an *r-admissible triple* if $a + b + c \leq 2r - 4$ and the numbers $a + b - c, b + c - a, c + a - b$ are non-negative even numbers.

Let F be the set of g-faces of G_B , V the set of g-vertices of G_B and Z the set of g-zigzags of G_B . Let $E_a[G_B]$ denote the angle-edges of G_B . Let $x : F \cup V \cup Z \rightarrow \mathcal{I}$ be a function that maps an integer in \mathcal{I} for each g-face, g-vertex and g-zigzag of G_B . We define $x_i = x(i)$ for i in the domain of x . We say that function x is a *state*. Denote by \mathcal{X} all possible states. Note that \mathcal{X}

is finite. For every state x exists a complex number c_x defined by (α and β are defined after):

$$c_x = \left(\prod_{f \in F} x_f \right) \left(\prod_{v \in V} x_v \right) \left(\prod_{z \in Z} x_z \right) \left(\prod_{a \in E_a[G_B]} \alpha(a, x) \right) \left(\prod_{e \in E[B]} \beta(e, x) \right).$$

The value of function raw for space M at integer r is the sum of c_x for every possible state x

$$\text{raw}_M(r) = \sum_{x \in \mathcal{X}} c_x.$$

Now the missing elements: α and β . Starting with α . An angle-edge a may have a drawing like the one shown in Figure 3.14A. Note that the angle-edge a belongs to one g-face f , one g-vertex v and one g-zigzag z . Then we define

$$\alpha(a, x) = \frac{1}{\theta(x_f, x_v, x_z)}.$$

The function θ is defined as

$$\theta(a, b, c) = \begin{cases} \frac{(-1)^{m+n+p}[m+n+p+1]![n]![m]![p]!}{[m+n]![n+p]![p+m]!}, & \text{if } (a, b, c) \text{ is } r\text{-admissible;} \\ 0, & \text{otherwise;} \end{cases}$$

where $m = (a + b - c)/2$, $n = (b + c - a)/2$, $p = (c + a - b)/2$.

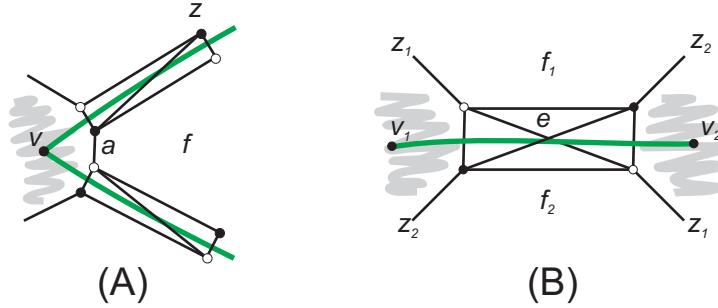


Figure 3.14 Elements for the quantum invariant

An edge e of the blink B corresponds in G_B to a schema like the one on Figure 3.14B. In this situation, the elements involved are the g-vertices v_1 and v_2 , the g-faces f_1 and f_2 and the

g-zigzags z_1 and z_2 . It is always possible, for every edge e , to draw a schema like this and follow this standard: the angle-edges of z_1 that appear on the schema fall between v_1 and f_1 in one side and between v_2 and f_2 on the other side. We now define

$$\beta(e, x) = \begin{cases} \frac{\text{Tet}(x_{f_1}, x_{v_1}, x_{f_2}, x_{v_2}, x_{z_2}, x_{z_1}) \lambda(x_{f_1}, x_{z_1}, x_{v_1})}{\lambda(x_{v_2}, x_{z_1}, x_{f_2})}, & \text{if } e \text{ is green} \\ \frac{\text{Tet}(x_{f_1}, x_{v_1}, x_{f_2}, x_{v_2}, x_{z_2}, x_{z_1}) \lambda(x_{v_2}, x_{z_1}, x_{f_2})}{\lambda(x_{f_1}, x_{z_1}, x_{v_1})}, & \text{if } e \text{ is red} \end{cases},$$

where $\text{Tet} : \mathcal{I}^6 \rightarrow \mathbb{R}$ is defined as

$$\text{Tet}(a, b, c, d, e, f) = \frac{\text{Int}!}{\text{Ext}!} \sum_{m \leq s \leq M} \frac{(-1)^s [s+1]!}{\prod_{1 \leq i \leq 4} [s-a_i]! \prod_{1 \leq j \leq 3} [b_j-s]!},$$

in case the triples (a, b, f) , (b, c, e) , (c, d, f) , (a, d, e) are r -admissible and considering

$$\begin{aligned} \text{Int}! &= \prod_{\substack{1 \leq i \leq 4 \\ 1 \leq j \leq 3}} [b_j - a_i]! \\ \text{Ext}! &= [a]![b]![c]![d]![e]![f]! \\ a_1 &= \frac{1}{2}(a+b+f) \quad b_1 = \frac{1}{2}(b+d+e+f) \\ a_2 &= \frac{1}{2}(b+c+e) \quad b_2 = \frac{1}{2}(a+c+e+f) \\ a_3 &= \frac{1}{2}(c+d+f) \quad b_3 = \frac{1}{2}(a+b+c+d) \\ a_4 &= \frac{1}{2}(a+d+e) \quad m = \max\{a_i\} \quad M = \min\{b_j\}. \end{aligned}$$

In case any of the triples is not r -admissible, the value of Tet is zero. The function $\lambda : \mathcal{I}^3 \rightarrow \mathbb{C}$ is defined by

$$\lambda(a, b, c) = \begin{cases} (-1)^{(a+b-c)/2} A^{[a(a+2)+b(b+2)-c(c+2)]/2}, & \text{if } a, b, c \text{ is } r\text{-admissible;} \\ 0, & \text{otherwise.} \end{cases}$$

Finally, the function wrt_M is defined as

$$\text{wrt}_M(r) = \frac{\text{raw}_M(r)}{\text{raw}_{S_1 \times S_2}(r)}$$

Note that wrt is normalized by the raw values of the space $S_1 \times S_2$. The Figure 3.15 presents the values of the quantum invariant to the Poincaré Sphere, E , for $3 \leq r \leq 30$.

r	wrt $_E(r)$	ev	r	wrt $_E(r)$	ev
3	0.7071067811	+	0.0000000000 <i>i</i>	2	
4	-0.5000000000	+	0.0000000000 <i>i</i>	4	
5	-0.3007504775	-	0.9256147934 <i>i</i>	6	
6	0.2886751346	+	0.0000000000 <i>i</i>	9	
7	-0.8460344491	-	0.0447830425 <i>i</i>	12	
8	0.0000000000	-	0.7325378163 <i>i</i>	16	
9	-0.1761268770	+	0.4020460816 <i>i</i>	20	
10	-0.7663118960	-	0.5567581822 <i>i</i>	25	
11	0.2998611170	-	0.1557368892 <i>i</i>	30	
12	-0.7886751345	+	0.1830127018 <i>i</i>	36	
13	-0.1148609711	-	0.7426524382 <i>i</i>	42	
14	-0.1074423864	+	0.3977522621 <i>i</i>	49	
15	-0.7770955704	-	0.5344039501 <i>i</i>	56	
16	0.3141711649	-	0.1762214752 <i>i</i>	64	
17	-0.7804263387	+	0.1428530500 <i>i</i>	72	
18	-0.0590950525	-	0.7636697702 <i>i</i>	81	
19	-0.1301847177	+	0.3730119013 <i>i</i>	90	
20	-0.7085827791	-	0.6254313947 <i>i</i>	100	
21	0.3410488374	-	0.1495290291 <i>i</i>	110	
22	-0.7854601781	+	0.0248114386 <i>i</i>	121	
23	0.0600389356	-	0.7749612722 <i>i</i>	132	
24	-0.1814470028	+	0.3376768599 <i>i</i>	144	
25	-0.5895059790	-	0.7441570346 <i>i</i>	156	
26	0.3666499557	-	0.0969412734 <i>i</i>	169	
27	-0.7726037705	-	0.1263662241 <i>i</i>	182	
28	0.2079977942	-	0.7581679950 <i>i</i>	196	
29	-0.2393556663	+	0.2887208942 <i>i</i>	210	
30	-0.4276587373	-	0.8531721152 <i>i</i>	225	

Figure 3.15 Example of quantum invariant: Poincarè's sphere

By playing with computation of the quantum invariants from various blinks we discovered a rather peculiar space.

Conjecture 3.5.1. *The quantum invariants of the space induced by the blink of Figure 3.16 are:*

$$q_r = \frac{2}{3}r \text{ if } r \equiv 0 \pmod{3}, q_r = \frac{1}{3}(r+1) \text{ if } r \equiv 2 \pmod{3}, q_r = \frac{1}{3}(r-1) \text{ if } r \equiv 1 \pmod{3}.$$

We have checked this result to a precision of 10 decimal places and up to $r = 45$. The fact that the quantum invariants are real is evident since the blink is red-green symmetric. The fact that they are all integer values and that every integer appears is rather pleasing.

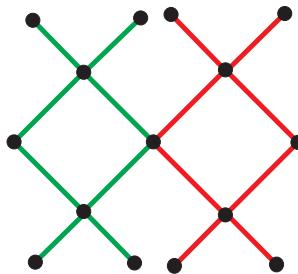


Figure 3.16 A peculiar space: its quantum invariants are integers and every integer appears

3.6 Code of a g-link

In this section we are interested in defining a “word” with all information of a g-link, one that from it we are able to rebuild the g-link. This word is said to be the *code of the g-link*. Let G be a g-link. One of the ingredients to define this “code” is the GBLINKLABEL algorithm that labels the vertices of a g-link from an initial vertex v (this initial vertex will be labeled 1).

Algorithm 1 GBLINKLABEL(G, v)

```

1:  $S \leftarrow$  empty stack;  $i \leftarrow 1$ ;  $\forall u, L_u \leftarrow \perp$                                  $\triangleright \perp = \text{not defined}$ 
2: push  $v$  into  $S$ 
3: while  $S$  not empty do
4:    $a \leftarrow \text{pop } S$ 
5:   if  $L_a = \perp$  then
6:      $b \leftarrow \text{adj}_f(a)$ ;  $c \leftarrow \text{adj}_v(b)$ ;  $d \leftarrow \text{adj}_v(a)$ 
7:      $L_a \leftarrow i$ ;  $L_b \leftarrow i+1$ ;  $L_c \leftarrow i+2$ ;  $L_d \leftarrow i+3$ 
8:     push  $\text{adj}_a(b)$  into  $S$ ; push  $\text{adj}_a(d)$  into  $S$ 
9:      $i \leftarrow i+4$ 
10:    end if
11: end while
12: return  $L$ 

```

When we talk about a *labeling of a g-link or of a blink*, we are referring to a labeling of the vertices of the g-link given by GBLINKLABEL with a starting vertex being some vertex with parity 1 in G . With this constraint, the set of vertices with even label defined by GBLINKLABEL is exactly the set V_0 of G and the set of vertices with odd label is exactly the set V_1 of G . Other important properties of a labeling are: adjacent vertices by face, vertex or angle edges in G have labels with different parity; the vertices of the same g-edge have labels $4k - 3, 4k - 2, 4k - 1, 4k$ for some $k \geq 1$. From the label of a vertex it is possible to know the label of its neighbor by face, vertex and zigzag edge. For instance, if u has label $4k - 2$ (for some integer $k \geq 1$) then its neighbor by face edge has label $4k - 3$, by vertex edge has label $4k - 1$ and by zigzag edge has label $4k$. One consequence of this fact is that it is possible to rebuild all edges of G annotating only the angle edge’s neighbors, once the face edge, vertex edge and zigzag edge are all known from the vertex label.

Let L be a labeling for G . Let a_1, a_2, \dots, a_{4n} be the labels of the adjacent vertices by angle

edges of the vertices $1, 2, \dots, 4n$ under the L labeling. As we saw, this list is sufficient to restore the vertices and the edges of G . Note also that, by the property that adjacent vertices have labels with different parity, this list is made of even labels followed by odd labels and that if $a_i = j$, then $a_j = i$. From these two observations it follows that from $\frac{a_1}{2}, \frac{a_3}{2}, \dots, \frac{a_{4n-1}}{2}$ it is possible to restore a_1, a_2, \dots, a_{4n} and, consequently, the vertices and edges of G . We denote the list (with labels divided by 2) as the *packed representation* of L . Note that the packed representation is a permutation of $1, \dots, 2n$. If L is a labeling, we denote by $\text{PACK}(L)$ the packed representation of L .

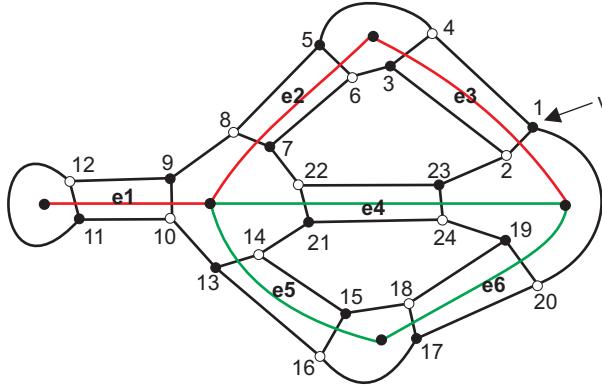


Figure 3.17 blink B , g-blink G_B and labeling $\text{GBLINKLABEL}(G_B, v)$

The Figure 3.17 presents a blink B , its induced g-blink G_B and the labeling resulted of $\text{GBLINKLABEL}(G_B, v)$. In this case, the label of the adjacent vertices by angle edge of $1, \dots, 24$ are $a_1, a_2, \dots, a_{24} = 20, 23, 6, 5, 4, 3, 22, 9, 8, 13, 12, 11, 10, 21, 18, 17, 16, 15, 24, 1, 14, 7, 2, 19$. Its packed representation is $\frac{a_1}{2}, \frac{a_3}{2}, \dots, \frac{a_{23}}{2} = 10, 3, 2, 11, 4, 6, 5, 9, 8, 12, 7, 1$.

We represent the bicoloration of the g-edges of a g-blink under the labeling L by the set of integers $\text{REDS}(G, L)$ defined this way: k is in $\text{REDS}(G, L)$ if g-edge with vertices $4k - 3, 4k - 2, 4k - 1$ and $4k$ is red, otherwise k is not in $\text{REDS}(G, L)$.

Let L be a labeling for the g-blink G , then the *pre-code* of G for labeling L is the pair

$$(\text{PACK}(L), \text{REDS}(G, L)).$$

In the example of Figure 3.17, the edges $e_1, e_2, e_3, e_4, e_5, e_6$ are labeled with $3, 2, 1, 6, 4, 5$

respectively. It follows that the *pre-code* for this blink under the presented labeling (starting at v , Figure 3.17) is:

$$((10, 3, 2, 11, 4, 6, 5, 9, 8, 12, 7, 1), \{1, 2, 3\}).$$

It is easy to see that different labelings define different pre-codes and that the same blink may have different labelings by changing the vertex 1 on the procedure GBLINKLABEL. This creates a difficulty: two different pre-codes for the same g-link. To resolve this we define the order relation \preceq on the set of pre-codes. Let (π_1, R_1) and (π_2, R_2) be two pre-codes, then

$$(\pi_1, R_1) \preceq (\pi_2, R_2) \text{ if } \begin{cases} |\pi_1| < |\pi_2| \text{ or} \\ |\pi_1| = |\pi_2| \text{ and } \pi_1 < \pi_2 \text{ or} \\ \pi_1 = \pi_2 \text{ and } |R_1| < |R_2| \text{ or} \\ \pi_1 = \pi_2 \text{ and } R_1 = R_2 \text{ or} \\ \pi_1 = \pi_2 \text{ and } |R_1| = |R_2| \text{ and } \min(R_1 \setminus R_2) < \min(R_2 \setminus R_1), \end{cases}$$

where $|\pi|$ is the length of the permutation π and $|R|$ is the size of set R . The *code of the g-link* G is its greatest pre-code under the relation \preceq :

$$\kappa(G) = \max_{\preceq} \left\{ (\text{PACK}(L_v), \text{REDS}(G, L_v)) \mid \begin{array}{l} L_v = \text{GBLINKLABEL}(G, v), \\ v \in V_1[G] \end{array} \right\}.$$

The *code of a blink* B is defined as $\kappa(B) = \kappa(G)$, where G is the induced g-link of B . A labeling L of a g-link is said to be a *code labeling* of G if $(\text{PACK}(L), \text{REDS}(G, L)) = \kappa(G)$. We extend the relation \preceq on pre-codes to g-links and blinks in this natural way: g-link G_1 is smaller or equal to g-link G_2 , $G_1 \preceq G_2$, if $\kappa(G_1) \preceq \kappa(G_2)$; blink B_1 is smaller or equal to blink B_2 , $B_1 \preceq B_2$, if their induced g-links satisfy $G_1 \preceq G_2$.

3.7 DUAL, REFLECTION and REFDUAL of a g-link

In this section we study the effects of simple changes on the structure of a g-link. For instance, what happens to the induced space of a g-link if we swap the parity of its vertices? And what happens to its blink presentations if we do this? We are interested in studying three types of modifications in the structure of a g-link. One of them is swapping the parity of the vertices and we denote it by (P). Before naming the other two we establish the convention we use to encode g-links.

We saw in the definition of g-links that we may encode the red-green coloring of the g-edges directly or, alternatively, we may encode it by registering the overcross/undercross status of the zigzag-edges of each g-edge. In this section we assume that we are using this second alternative. So, here, the color of the g-edges is a consequence of the overcross/undercross state of the zigzag-edges of the g-link.

Besides (P), the other two modifications in the structure of a g-link that we study are: swapping the role of face-edges with vertex-edges, denoted by (FV); and swapping the overcrossing/undercrossing state of each zigzag-edge, denoted by (C).

The central blink in Figure 3.18 is a blink presentation for our reference g-link. By applying all combinations of (P), (C) and (FV) on this g-link we obtain new g-links inducing the blinks shown. We can learn from this figure the effects on blinks of these g-link modifications. Applying (C), *i.e.* changing the undercross/overcross status on the zigzag-edges, the only effect is to swap the colors of the edges of the blinks; applying (P), *i.e.* changing the parity of the vertices, the effect is to do one reflection of the blink drawing and change the color of its edges; applying (C) and (P), *i.e.* changing the undercross/overcross state of each zigzag-edge and the parity of the vertices, the effect is just a reflection of the blink drawing; applying (FV), *i.e.* swapping the roles of face-edge and vertex-edge, the blink becomes the dual of the original blink (the dual is in the sense of a dual map or dual plane graph) whose dual edges preserve the same color as the original edges, followed by a reflection; applying (C) and (FV), *i.e.* swapping the roles of face-edge and vertex-edge and changing the overcross/undercross status of the

zigzag-edges, the effect is a dual blink with the dual edges having changed color (*e.g.* a dual edge that “crosses” a red edge becomes a green one) followed by a reflection; applying (P) and (FV) the effect is the dual blink with dual edges having the changed colors (*e.g.* a dual edge that “crosses” a red edge becomes a green one); applying (C), (P) and (FV), *i.e.* all three modifications, the effect is the dual of the blink with the dual edges having the same color as the original ones (*e.g.* a dual edge that crosses a green edge is itself a green edge). Note that the blinks (and

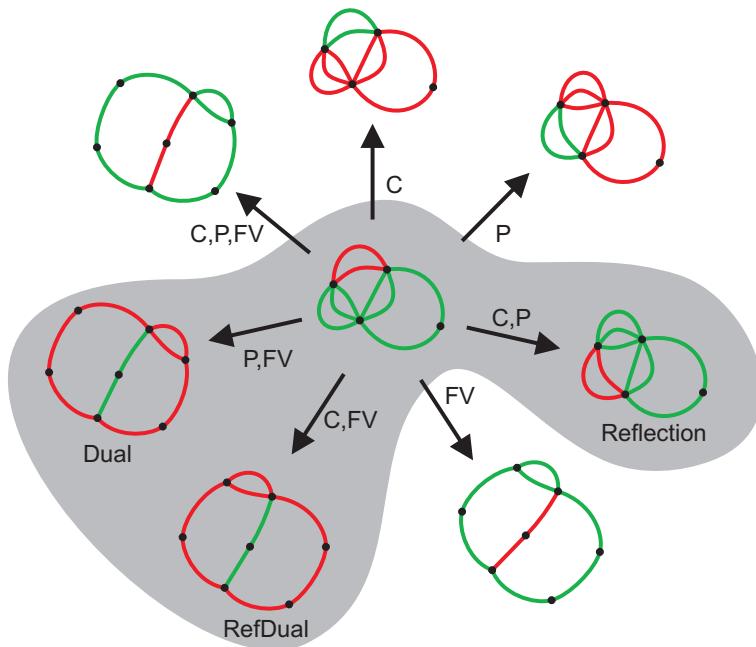


Figure 3.18 The effect on blinks of applying all combinations of (C), (P) and (FV) on its g-blink

g-blanks) differing by the application of two distinct modifications have special names. If G is a g-blink, the g-blink obtained from G by applying (C) and (P) is said to be the *reflection* of G and is denoted by $\text{REFLECTION}(G)$; the g-blink obtained from G by applying (C) and (FV) is said to be the *refdual* of G and is denoted by $\text{REFDUAL}(G)$; the g-blink obtained from G by applying (P) and (FV) is said to be the *dual* of G and is denoted by $\text{DUAL}(G)$. They were shown in Figure 3.18 over a gray region because they all share one important property as the next proposition shows.

Proposition 3.7.1. *The spaces induced by g-blanks G , REFLECTION(G), REFDUAL(G) and DUAL(G) are the same.*

Proof. ($G \xrightarrow{S} \text{DUAL}(G)$) – Consider the dual g-blanks on Figure 3.19A and Figure 3.19D. Following the drawings in each row of this figure we see how to obtain one induced BFL from a g-blank. Now observe that the BFLs on Figure 3.19C and Figure 3.19F induce the same space because we can get from one to the other by applying, on e , the space preserving move for BFLs of Lemma 2.5.8 (Jumping Rope Lemma for BFLs). It is easy to see that this argument generalizes to any pair G and DUAL(G), so $G \xrightarrow{S} \text{DUAL}(G)$.

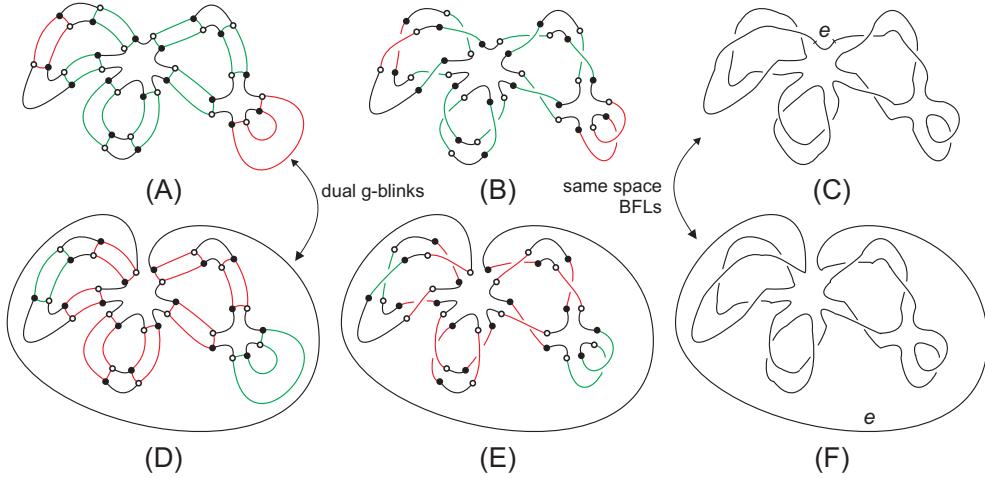


Figure 3.19 Dual g-blanks induce the same space

($G \xrightarrow{S} \text{REFLECTION}(G)$) – We prove the result in BFL language. Consider a plane disk D^2 containing the BFL. Do a 3D-flip of D^2 carrying the BFL along. Clearly this maintains the ambient isotopy link associated to the BFL. The writhe of the components do not change: the blink has been reflected but also its crossings are switched, thus maintaining all crossing signs. The Proposition is established.

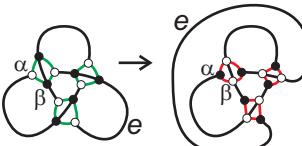
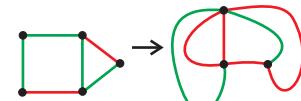
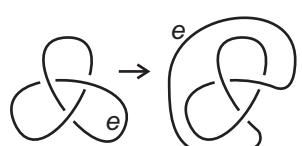
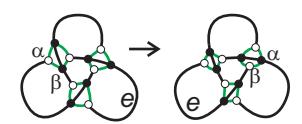
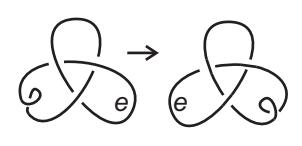
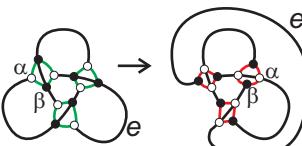
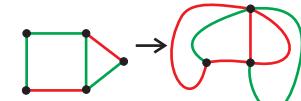
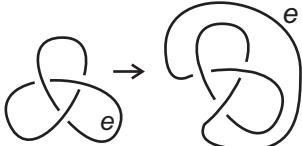
($G \xrightarrow{S} \text{REFDUAL}(G)$) – Note that $\text{REFDUAL}(G) = \text{REFLECTION}(\text{DUAL}(G))$, once applying (P) and (FV) followed by (P) and (C) is the same as applying only (FV) and (C). So, by the transitivity of the \xrightarrow{S} relation, using the previous two results, $G \xrightarrow{S} \text{REFDUAL}(G)$. \square

What about the blinks that did not fall in the gray region of Figure 3.18? What spaces do they induce? First, it is easy to see that they all induce the same space once, taking as

reference the top most blink (north), the northeast blink is its reflection (*i.e.* to get there we must apply (C) and (P)), the southeast blink is its refdual and the northwest blink is its dual. So, by Proposition 3.7.1 they induce the same space. To finish the answer, let's focus again on the top most blink (result of (C) operation). It is obtained from the central blink by changing crossing status of the zigzag-edges. In the blink view of the g-blink this is equivalent to swap the colors of the edges from green to red and vice-versa. On the BFL view this is just that: change all the crossings. This has the effect of inverting the writhe of all components: for example, a component that had writhe 1 becomes one with writhe -1. So the end effect of this change is to invert the orientation of the original space. Conclusion: the g-blanks on the white region of Figure 3.18 induce the same space of the gray region g-blanks except for the orientation that is changed.

One important consequence of the properties we described here is that we may search for distinct spaces on only one of the eight possible g-blanks. The other orientation of the space is trivially obtained from any g-blink. This saves computational effort of identifying distinct spaces.

We end this section by summarizing the effects on the structures of a g-blink, blink and BFL when the dual, reflection and refdual operations are applied.

DUAL(G)		
$g\text{-blink}$	blink	BFL
<p>change parity (P) and swap face-edges and vertex-edges (FV)</p> 	<p>each face becomes a vertex, each edge becomes a dual edge with different color</p> 	<p>overpass one external edge</p> 
REFLECTION(G)		
$g\text{-blink}$	blink	BFL
<p>change parity (P) and change overcross and undercross status on zigzag-edges (C)</p> 	<p>reflect</p> 	<p>reflect and change the crossings</p> 
REFDUAL(G)		
$g\text{-blink}$	blink	BFL
<p>change overcross and undercross status on zigzag-edges (C) and swap face-edges and vertex-edges (FV)</p> 	<p>first make each face become a vertex and each edge become a dual edge with the color changed, then reflect the result</p> 	<p>overpass one external edge, reflect and change the crossings</p> 

3.8 Merging and breaking g-blanks

Let A and B be distinct g-blanks. A *basepair on A and B* is a pair of angle-edges (a, b) so that $a \in A$ and $b \in B$. The *merging of A and B at basepair (a, b)* , denoted by

$$A[a] + B[b],$$

is the g-link obtained by replacing a and b by new edges e and e' both connecting A to B , having the same ends as a and b and linking vertices of distinct parity. See Figure 3.20 for an example.

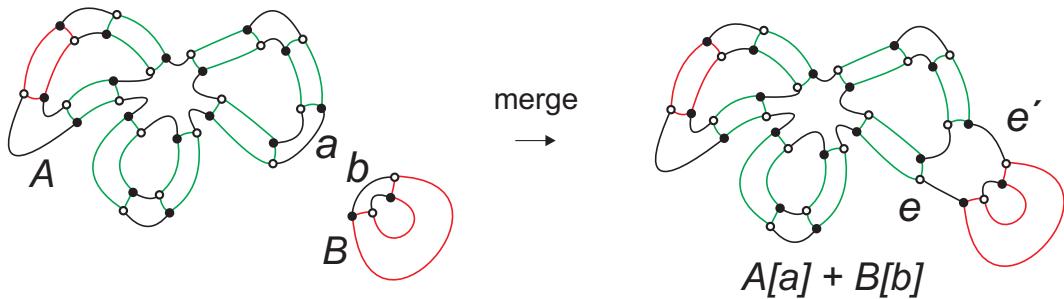


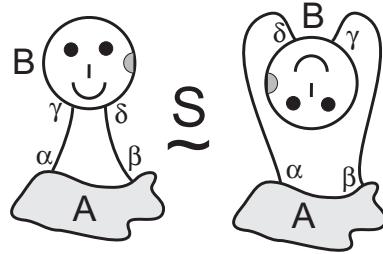
Figure 3.20 Merging of A and B on basepair (a, b)

Observe the result of the merging of Figure 3.20. The edges e and e' are both incident to the same g-face and g-vertex and we could reverse the merging by replacing e and e' back with a and b . Indeed, any pair of distinct angle-edges incident to the same g-face and g-vertex on a g-link defines a *breakpoint*: a point where we can break a g-link into two disconnected g-links. To *break* a g-link on *breakpair* (e, e') is to separate it into two g-links by replacing edges e and e' by two new edges incident to same vertices of e and e' obtaining two disconnected g-links. For an example see Figure 3.20 from right to left.

Theorem 3.8.1 (Theorem on partial dual). *Let A and B be arbitrary disjoint g-blanks and (a, b) a basepair on them. Then $A[a] + B[b] \stackrel{S}{\sim} A[a] + \text{DUAL}(B)[b]$.*

In the language of BFLs the diagrammatic reformulation of Theorem 3.8.1 is given by the

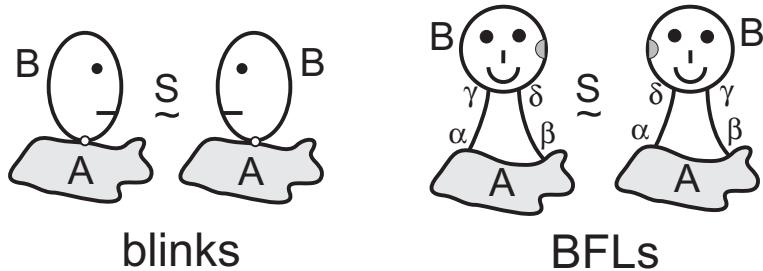
diagram below. Note that α and β are the ends of a and γ and δ are the ends of b .



The right diagram above is obtained by cutting the two wires π -rotating B and reconnecting the wires. (Note that the smiling fellow has only the right rear.) Theorem 3.8.1 was suggested by computer experiments very early in our research. It is a central result to curtail the number of relevant blinks: see next section. Its proof, however, was elusive until October 31, 2006: it has to wait for the proofs of Theorems 3.8.2 and 3.8.3.

Theorem 3.8.2 (Theorem on partial reflection). *Let A and B be arbitrary disjoint g-links, (a, b) a basepair on them. Then $A[a] + B[b] \xrightarrow{S} A[a] + \text{REFLECTION}(B)[b]$.*

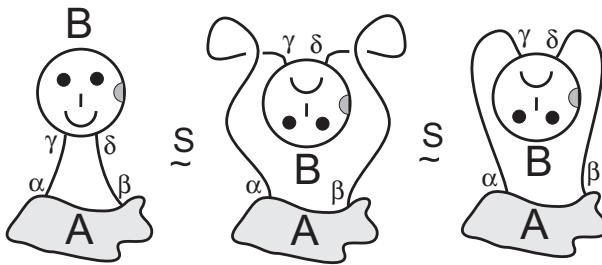
In the language of blinks the diagrammatic reformulation of Theorem 3.8.2 is on the left part of the diagram below. The right part of it is the reformulation of the same Theorem in BFL language. Note that the right ear becomes a left ear indicating a B -reflection.



Theorem 3.8.2 is proved by topological techniques allied to crucial facts on the theory of gems. It is done in Chapter 4. The proof of Theorem 3.8.2 is the main theoretical contribution of this thesis.

The diagrammatic reformulation of Theorem 3.8.3 in the language of BFLs is the passage

from the first to the third diagram below



The third diagram above is obtained by a 3D-flip on B (getting the central diagram) followed by a ribbon move, regular isotopies and Whitney trick. The smiling to frowning change is to indicate that all the crossings are switched (and that the fellow became angry for being put upside down and being retracted from the ear). On the contrary of the previous Theorems we can tackle the proof of Theorem 3.8.3 immediately.

Theorem 3.8.3 (Theorem on partial refDual). *Let A and B be arbitrary disjoint g -blinks, (a, b) a basepair on them. Then $A[a] + B[b] \stackrel{S}{\sim} A[a] + \text{REFDUAL}(B)[b]$.*

Proof. The proof is easy with the help of the BFL manifestation of the Theorem. See Figure 3.21. The ambient isotopy classes of the links corresponding to $A[a] + B[b]$ and to $A[a] + \text{REFDUAL}(B)[b]$ are the same. It is enough to prove that the writhe of each component of the BFLs is maintained. Outside the B there is no change in the crossing numbers. In the interior of B the crossings are switched and reflected (become upside down) thus, again, there is no change in the crossing numbers. Finally, the crossing numbers of the new curls are in the same component and cancel each other. \square

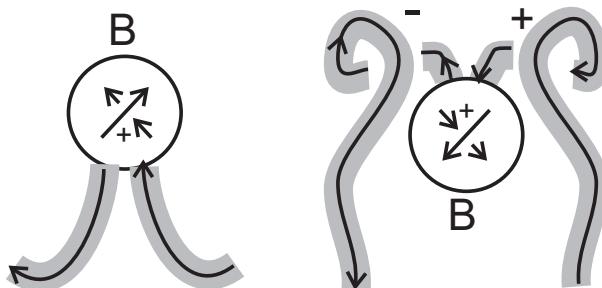


Figure 3.21 BFLs induce same space because are the same link with the same writhe at each component

Lemma 3.8.4. *For any g-link B ,*

$$\text{DUAL}(\text{REFLECTION}(B)) = \text{REFLECTION}(\text{DUAL}(B)).$$

Proof. By their combinatorial definitions in g-links the operations of taking the dual and reflecting are seen to be commuting involutions. Thus, both spaces in the statement of the lemma are equal to $\text{REFDUAL}(B)$). \square

Lemma 3.8.5. *Theorem 3.8.1 is implied by Theorems 3.8.2 and 3.8.3.*

Proof. $A[a] + B[b] \stackrel{\mathcal{S}}{\sim} A[a] + \text{REFLECTION}(B)[b]$ and $A[a] + B[b] \stackrel{\mathcal{S}}{\sim} A[a] + \text{REFDUAL}(B)[b]$ imply by transitivity that $A[a] + \text{REFLECTION}(B)[b] \stackrel{\mathcal{S}}{\sim} A[a] + \text{REFDUAL}(B)[b]$. Note that b is an angle-edge in $C = \text{REFLECTION}(B)$. Taking $c = b$ we have for any blink C , $A[a] + C[c] \stackrel{\mathcal{S}}{\sim} A[a] + \text{DUAL}(C)[c]$, establishing Theorem 3.8.1 for arbitrary disjoint g-links (A, C) and base-pairs (a, c) . \square

From Lemma 3.8.5 and Theorem 3.8.3, Theorem 3.8.1 will follow from Theorem 3.8.2. The proof of this result is given at the end of Chapter 4.

3.9 Representative of a g-blink

We learned on Section 3.3 that a g-blink induces different blinks. All these blinks induce the same space, which is defined as the space of the g-blink. We saw also that different g-blinks may induce the same space: the g-blinks G , $\text{REFLECTION}(G)$, $\text{DUAL}(G)$ and $\text{REFDUAL}(G)$ dual are different g-blinks but induce the same space. In this section we define a normalization procedure for g-blinks. This normalization maps a g-blink into another g-blink that induces the same space as the first. Our goal with this procedure is to look for different spaces on fewer g-blinks: we need to look for different spaces only on g-blinks that are normalized. The normalized version of a g-blink will be denoted as its *representative*.

We saw on Section 3.8 that a breakpair on a g-blink is a pair of angle-edges that are on the same g-vertex and the same g-face. Given a g-blink and one breakpair in it we may separate it into two g-blinks. Figure 3.22A shows a g-blink and its breakpairs: the gray arrows point to the pair of angle-edges of the breakpair. We can separate a g-blink in pieces (smaller g-blinks) until there are no more breakpairs. Figures 3.22B, 3.22C and 3.22D show this separation process. A piece without breakpairs is called a *block*. Figure 3.22D have 4 blocks. No matter what sequence of breakpairs one uses to separate a g-blink in blocks, the final blocks are always the same.

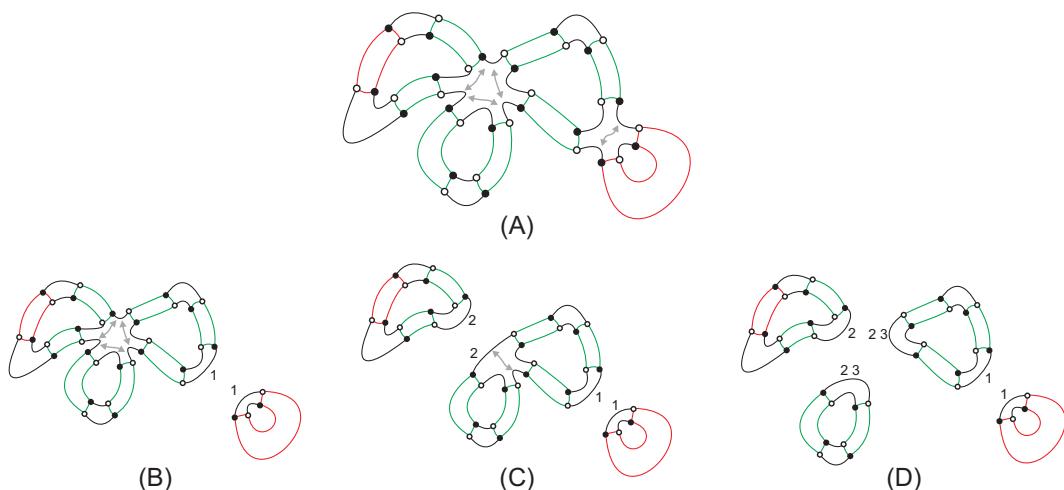


Figure 3.22 Breakpoints of a g-blink and its breaking

Some important properties of a breakpair that we need are related to the g-zigzags of its g-blink. They are the subject of next two propositions.

Proposition 3.9.1. *If p is a breakpair on g-blink G and its angle-edges are e_1 and e_2 then the g-zigzag of G that contains e_1 is the same as the one that contains e_2 .*

Proof. Straightforward. □

Proposition 3.9.2. *The only g-zigzag z affected by separating a g-blink G on a breakpair p is the one that contains both angle-edges of p . If P_1 and P_2 are the pieces obtained by separating G on p then the g-zigzags of P_1 and P_2 , except for z , were disjoint in G .*

Proof. Straightforward. □

We also saw on Section 3.8 that any pair of angle edges, each on different g-blanks may be the *basepair* of a g-blink merging operation. Think of the transition from Figure 3.22B to Figure 3.22A the basepairs are the angle-edges labeled 1 on Figure 3.22B. So, to merge two g-blanks on a basepair is to replace the basepair angle-edges by two new edges connecting the two g-blanks and respecting the parity.

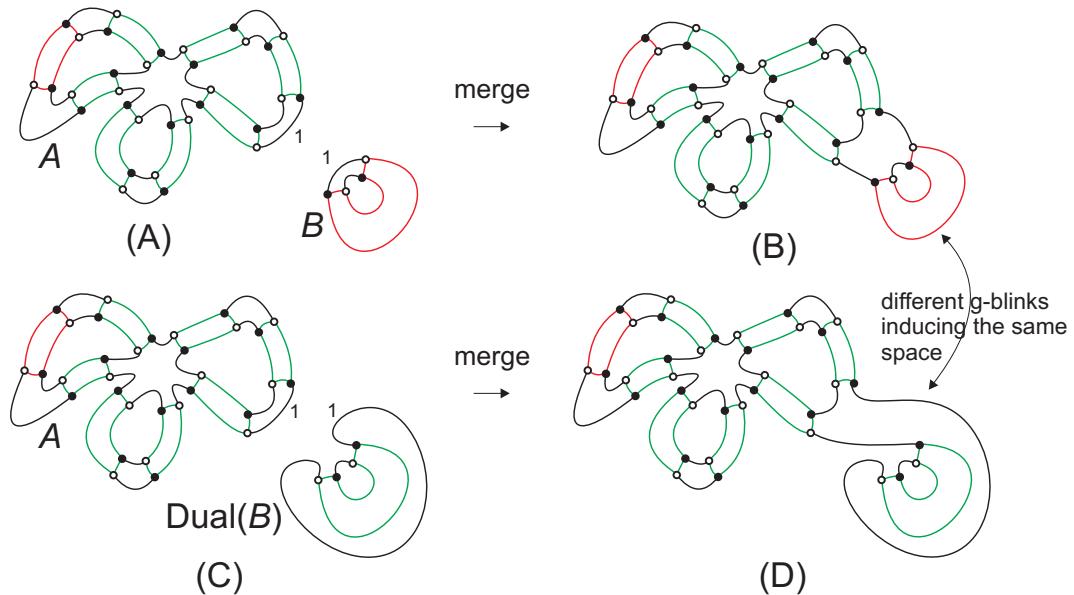


Figure 3.23 Merging A with B and with DUAL(B)

The fact that the two g-blanks at the right of Figure 3.23 induce the same space is given by Theorem 3.8.1. The proof of this Theorem still depends on the proof of Theorem 3.8.2 which will be given in Chapter 4. It depends on topological facts and a reformulation of the BFL in terms of gems. As we have said before, this is the main theoretical contribution of our Thesis.

Follow Figure 3.23 to see an application of Theorem 3.8.1. The basepair in both rows are the same: the pair of edges labeled 1. The theorem together with the result we describe now form the basis of the normalization procedure.

Proposition 3.9.3. *Let A and B be two g-blanks. Let p be a basepair on them. Let α be the g-zigzag of the angle-edge of p on A and β be the g-zigzag of the angle-edge of p on B . Let p' be any other basepair on g-zigzags α of A and β of B . The result of A and B merged on p induces the same space as A and B merged on p' .*

For example, the g-blank resultant of the merge of Figure 3.24A on basepair labeled 1 induces the same space as the g-blank resultant of merging any pair of angle edges tagged with a “blue X” one from A and another from B of Figure 3.24B. Note that all angle-edges tagged with a “blue X” on Figure 3.24B are on the same g-zigzag of the angle-edges labeled 1 on Figure 3.24A.

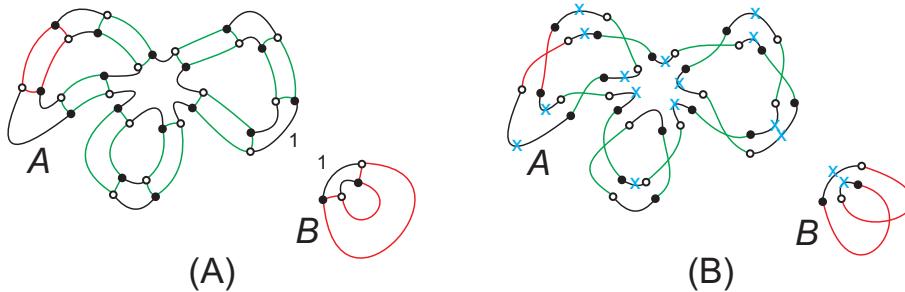


Figure 3.24 Merging on any angle-edge of the same g-zigzags

Having Theorems 3.8.1, Theorem 3.8.2 and Theorem 3.8.3 at our disposal, we are now able to describe the normalization procedure. The intuitive idea is to separate the g-blank into blocks and then remount the blocks (or their duals, reflection or refdual, depending who is “smaller”) in a canonical way. We divide this procedure in three phases: separating phase, intermediate phase and merging phase.

Separating phase. Let G be the g-link we want to normalize. First give each g-zigzag of G an unique label. Let Z be the set of these labels. For each angle-edge e on G record the label of the g-zigzag that contains e as its *zigzag label* z_e . Initialize the “pieces set” as $\mathcal{P} \leftarrow \{G\}$. Suppose there is a piece P in \mathcal{P} with a breakpair p . Let e_1 and e_2 be the two angle edges of the breakpair p . Note that the zigzag labels of e_1 and e_2 are the same: $z_{e_1} = z_{e_2}$. Separate P into P_1 and P_2 and make the two new edges e'_1 on P_1 and e'_2 on P_2 have the same zigzag labels as e_1 and e_2 : $z_{e'_1} \leftarrow z_{e_1} (= z_{e_2})$ and $z_{e'_2} \leftarrow z_{e_1} (= z_{e_2})$. Replace P with P_1 and P_2 on \mathcal{P} . Repeat this until \mathcal{P} contains only blocks (g-blanks without breakpairs). The separating phase is finished.

Intermediate phase. Define a bipartite graph X . The vertices of X are the labels $z \in Z$ and the pieces $P \in \mathcal{P}$; there is an edge (z, P) between label z and piece P in X if there is an angle-edge e in P with $z_e = z$. Note that X is a tree: no cycles. Let pieces P_1 and P_2 be neighbors of label z on X . The only common neighbor of P_1 and P_2 must be z otherwise P_1 could not be separated from P_2 (See Proposition 3.9.2). This implies that there cannot be a cycle in X . Remove every vertex $z \in Z$ of X that has only one neighbor. This asserts that every leaf of X is a vertex P in \mathcal{P} . A consequence of this is that X has a single *center*. The center of a tree (see [BM76]) is obtained by removing all leafs of a tree in each step until arriving at a pair of vertices or a single vertex. By applying the tree center algorithm on X the leafs on each step alternates between z nodes and P nodes. So it must finish on a single node once there cannot be two adjacent z ’s or two adjacent P ’s. Let v be the center of X . We root X at v and X becomes a *rooted tree*. The idea now is to organize this rooted tree in a canonical way. To this aim we must have a way to compare nodes and subtrees.

Remember from Section 3.6 that every g-link has a unique code. So we can compare g-links by comparing their codes. We know that merging a g-link, or its dual, or its reflection or its refDual on the same basepair results in a g-link that induces the same space. So we normalize \mathcal{P} by replacing each piece P in it by $\min\{P, \text{DUAL}(P), \text{REFLECTION}(P), \text{REFDUAL}(P)\}$. Note that doing this does not affect the zigzag labeling of the angle-edges because angle-edges are preserved on these operations (*i.e.* dual, reflection and refdual). Note also that the P nodes of X are also updated by this criterion. Using the code of a g-link we can also organize the rooted tree X . To organize X we mean to define a fixed sequence for the

children of a node of X . We do this inductively. The base case is a node without child. This node is already organized, so we are finished. Consider a node u with children w_1, \dots, w_k all of them already organized. To organize u we need to define a sequence for these children. Using the code of a g-link we can define a function $\text{COMPARETREES}(r_1, r_2)$ to compare organized rooted trees that is evaluated to -1 if tree rooted at r_1 is smaller than the tree rooted at r_2 , to 0 if they are the same and to +1 if tree rooted at r_1 is greater than tree rooted at r_2 . So to organize u is a matter of sorting w_1, \dots, w_k using the COMPARETREES function. With these explanations the problem of organizing X is solved. This also ends the intermediate phase.

Algorithm 2 COMPARETREES Algorithm

<pre> 1: function $\text{COMPARETREES}(r_1, r_2)$ 2: $s_1 \leftarrow \text{LINEARIZETREE}(r_1)$ 3: $s_2 \leftarrow \text{LINEARIZETREE}(r_2)$ 4: $n_1 \leftarrow \text{length}(s_1); n_2 \leftarrow \text{length}(s_2)$ 5: $i \leftarrow 1$ 6: while $i \leq \min(n_1, n_2)$ do 7: $(u_1, \text{level}_1) \leftarrow s_1[i]$ 8: $(u_2, \text{level}_2) \leftarrow s_2[i]$ 9: if $(\text{level}_1 < \text{level}_2)$ then return -1 10: else if $(\text{level}_1 > \text{level}_2)$ then return +1 11: if $\kappa(u_1) < \kappa(u_2)$ then return -1 12: else if $\kappa(u_1) > \kappa(u_2)$ then return +1 13: $i \leftarrow i + 1$ 14: end while 15: if $n_1 = n_2$ then return 0 16: else if $n_1 < n_2$ then return -1 17: else return +1 18: end function</pre>	<pre> 1: function $\text{LINEARIZETREE}(r)$ 2: $s \leftarrow <>$ 3: procedure $\text{LT-DFS}(u, \text{level})$ 4: $s \leftarrow s \cdot <(u, \text{level})>$ 5: for every children v of u taken in the ordered sequence do 6: $\text{LT-DFS}(v, \text{level}+1)$ 7: end for 8: end procedure 9: $\text{LT-DFS}(r, 0)$ 10: return s 11: end function</pre>
---	--

In this algorithm the code κ is taken over not only g-links but also on zigzag labels. Consider the code of a zigzag label the empty word. With this definition two zigzag labels z_1 and z_2 always satisfy $\kappa(z_1) = \kappa(z_2)$. Note also that a zigzag node code is smaller than any g-link code.

Merging phase. The rooted tree X is already organized. The idea now is to merge the blocks using the order defined on X and using the code to define a canonical basepair for each merging operation. Let z be a label in X . Let P_1, \dots, P_k be the neighbors of z . If z is not the root of X then P_1 is the parent of z and $P_2 \dots P_k$ are the children of z taken in order. If z is the root of X then

$P_1 \dots P_k$ are the children of z taken in order. We want now to merge the pieces $P_1 \dots P_k$ in the order they appear. First P_1 with P_2 , second the result of P_1 and P_2 with P_3 and so on. The only thing not defined yet is the base point of each merging. This is solved using the code of the blocks. For each label z that appears on a block P we define a *canonical basepair angle-edge* e_P^z on the g-zigzag whose angle-edges are all zigzag labeled with z . This is done using the code labeling of P (see Section 3.6). Label the vertices of P with its code labeling. Define e_P^z as the angle-edge (among all angle-edges with zigzag label z on P) incident to the vertex of P that has the smallest label. The last thing we need to define is how to update the canonical basepair angle-edge after a merging operation. In symbols, after merging P_1 and P_2 whose canonical basepair angle-edges were $e_{P_1}^z$ and $e_{P_2}^z$ what will be the canonical basepair angle-edge $e_{P_1+P_2}^z$ of $P_1 + P_2$? By definition $e_{P_1+P_2}^z$ will be the new angle-edge incident to the odd vertex of P_2 . Repeat this merging for all zigzag label z in any order until no more merging may be done. Finished.

This three-phase procedure results in a unique g-blink $r(G)$, *the representative of G* . Both g-blanks, G and $r(G)$ induce the same space. A g-blink is said to be *a representative* if $G = r(G)$. We finish this section with an example in Figure 3.25 of the result of the algorithm that we have implemented for obtaining the representative of a g-blink (or blink).

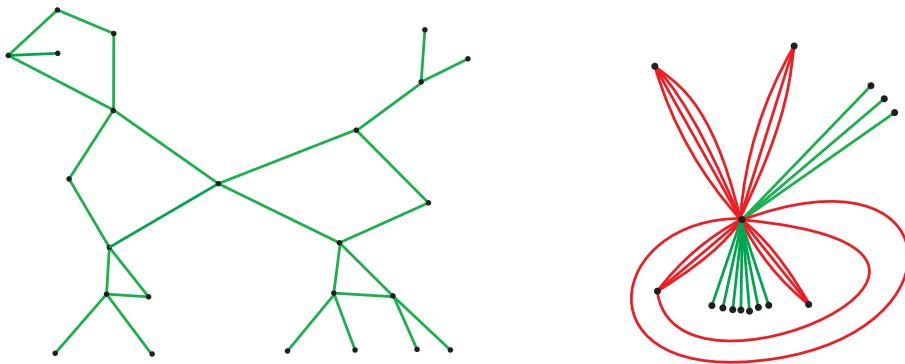


Figure 3.25 Representative of the dog like blink

3.10 Towards a census of spaces induced by small blinks

What spaces have a small blink presentation?

In this chapter we saw that a g-link is a family of blinks that induce the same space and that any blink has an associated g-link. Thus, our question is equivalent to

What spaces have a small g-link presentation?

In this form, our original question becomes easier “to be computed” once a g-link is a combinatorial object and the number of g-links with $\leq k$ g-edges is finite. Moreover, by being combinatorial simple objects, g-links have a direct way of going into computers. For instance, a g-link may be represented in a computer by its code.

By the fact that every g-link is associated to a special g-link with the same size that induces the same space called its representative, our question is also equivalent to

What spaces have a small representative g-link presentation?

In this form, our original question becomes even “easier” in the sense that, with $\leq k$ g-edges, there are fewer “representative g-links” than “general g-links”. Thus, this form is the one we use.

Suppose we have generated the set of all representative g-links with $\leq k$ g-edges for some $k \geq 1$. We already know that all spaces that have a presentation with $\leq k$ edges are there. But how to identify them? What elements of this set (representative g-links) induce the same space? In Sections 3.4 and 3.5 we described a way to calculate two space invariants from a g-link presentation: the homology group and the quantum invariant. Calculating these invariants on all g-links we can partition this set in classes where each element of the same class has the same homology group and same quantum invariant. At this point we are sure that different classes induce different spaces because there is a topological invariant that distinguishes them. The remaining problem is to know if all g-links in the same class (same homology group and same quantum invariant) induce the same space. To prove that two g-links indeed induce

the same space we will use a computational method in 3-Gem Theory that was described in [Lin95]. Next chapter will be about 3-Gems and this computational method.

CHAPTER 4

3-Gems

4.1 Definition

An $(n+1)$ -graph is a regular graph where all its vertices have degree $n+1$ and the edges incident to each vertex have distinct colors $0, 1, \dots, n$. Let $K \subseteq \{0, 1, \dots, n\}$ be a subset of colors and G an $(n+1)$ -graph. Define $G[K]$ as the subgraph of G induced by K . We say that each connected component of $G[K]$ is a K -residue of G (note that K here is a subset of colors). If $k = |K|$ then a K -residue is also said to be a k -residue of G (note that k here is a number). If K is a set, we denote by \bar{K} its complement ($\{0, \dots, n\} \setminus K$). A 2-residue is also called a *bigon* and a 3-residue is also called a *triball*. A 3-gem (acronym for 3-dimensional graph encoded manifold) is a $(3+1)$ -graph where each of its 3-residues induces the surface of a sphere, \mathbb{S}^2 . Each bipartite gem G corresponds to a unique space $|G|$. The easiest way to define $|G|$ is to start with v_G tetrahedra each with its 4 vertices painted each with one color of $\{0, 1, 2, 3\} = \{h, i, j, k\}$ and glue a pair of tetrahedra t_u and t_v by identifying its faces opposite to the i -colored vertices so as to match colors i, j, k whenever there is an h -colored edge in G between u and v . In this way G is the dual of the pseudo-triangulation of the pseudo-manifold obtained by the gluing. In the case of a gem, the pseudo-manifold is a manifold. Given a 4-regular properly edge colored graph G denote $\alpha(G) = b_G - v_G - t_G$ the *agemality* of G , where b_G is the number of 2-residues of G , v_G is the number of vertices of G and t_G is the number of 3-residues of G . The agemality is non-negative and it is 0 if and only if G is a gem. Indeed we have ([Lin95]):

Proposition 4.1.1. *Let G be a $(3+1)$ -graph with b_G 2-residues, t_G 3-residues and v_G vertices, then G is a 3-gem if and only if its agemality is zero, that is,*

$$v_G + t_G = b_G.$$

4.2 Moves on gems

Let G be a 3-gem. An i -colored edge α of G is a *1-dipole* if the vertices incident to α are in different $\overline{\{i\}}$ -residues. A pair of edges of G one with color i and the other with color j and with equal ends is a *2-dipole* if these ends are in different $\overline{\{i, j\}}$ -residues. The creation and cancelation of a k -dipole ($k = 1, 2$) does not change the induced space. A 3-gem free of 1-dipoles is said to be a *3-crystallization*.

A ρ -*pair* in a $(3 + 1)$ -graph is a pair of edges of the same color that are incident to 2 or 3 common bigons (the two edges are both contained in 2 or 3 bigons of G). If the edges of the pair are incident to only two common bigons then the pair is said to be a ρ_2 -*pair*. If the edges of the pair are incident to three common bigons then the pair is said to be a ρ_3 -*pair*. If a ρ -pair is found in a gem we can get a smaller gem inducing the same space.

4.3 Simplifying dynamics

In this section we briefly review the simplifying dynamics on gems. This technique is developed in [Lin95] and it uses the so called *TS*-moves and *U*-move which maintain the induced 3-manifold. The relevant algorithm to simplify gems and get to an attractor for the spaces induced by a gem is named the $TS_\rho U$ -algorithm ([Lin95]). We have re-implemented this algorithm which is the basis for the proof that the blinks with the same homology and the same quantum invariants up to $r = 12$ indeed induce the same spaces. The six TS-moves on gems are defined in Figure 4.1.

A *monopole* in a $(3 + 1)$ -graph is a vertex which is the only intersection of an hi -gon and a jk -gon, (h, i, j, k) a permutation of $(0, 1, 2, 3)$. This defines a configuration which induces a fundamental move in the classification of gems. A U_{mn} -move is defined on a monopole, by making the hi -gon of size $2m$ and the jk -gon of size $2n$ (whose union has $2m + 2n - 1$ vertices) disappear, being replaced by a cluster of squares with $(2m - 1) \times (2n - 1)$ vertices. A U_{mn} -move does not change the induced space of the gem. We give an example in Figure 4.2 of U_{23} move.

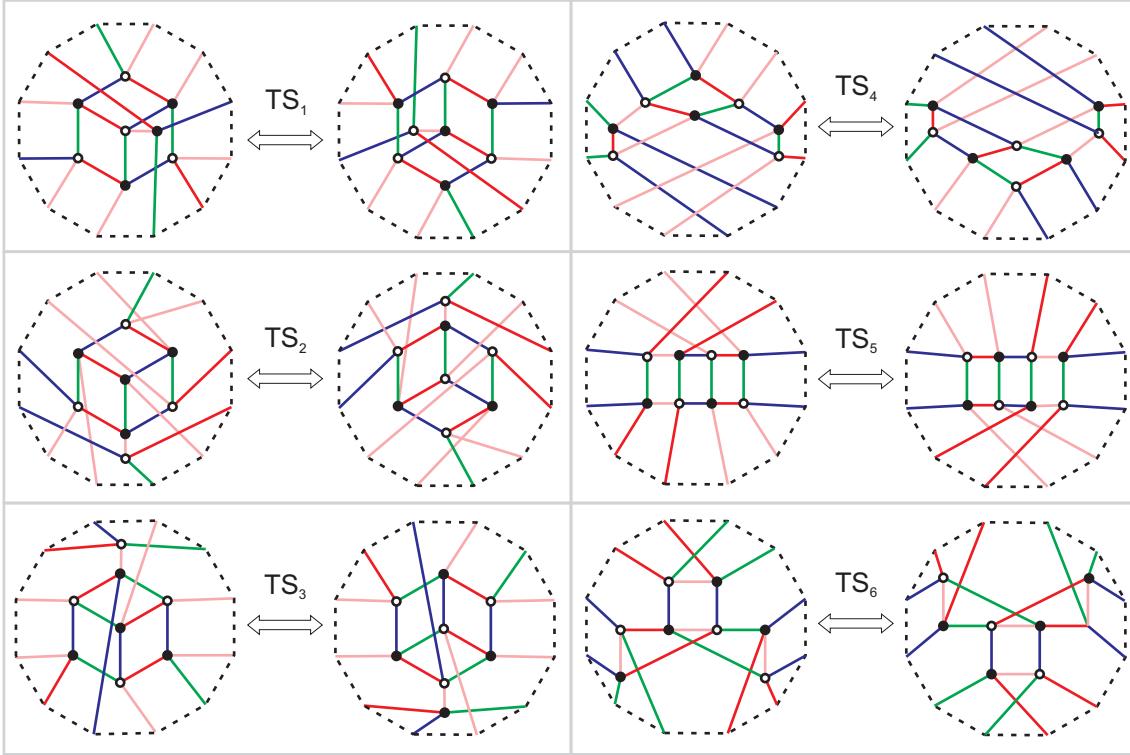
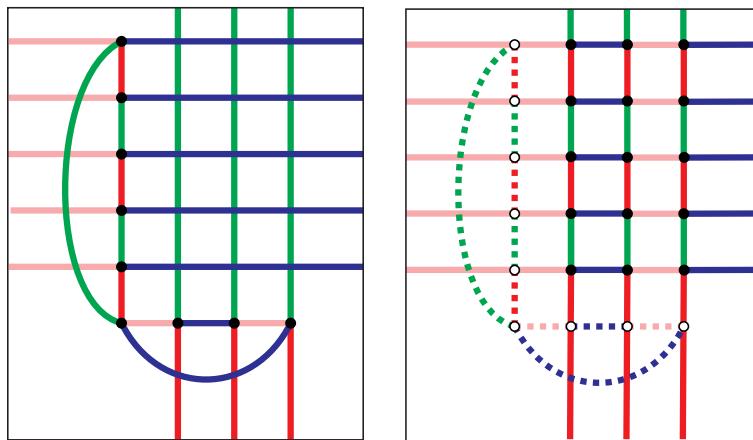


Figure 4.1 The six TS-moves

In general the U_{mn} -move increases the number of vertices of a gem. However, in conjunction with the TS-moves and ρ -pairs the U_{mn} -moves have been so far sufficient to classify gems up to 30 vertices.

Figure 4.2 $U_{2,3}$ -move applied to a 1-monopole of type (2,3)

4.4 From g-blink to 3-gem

Assume that G is a g-blink with no g-zigzags with g-edges alternating red and green. This kind of g-zigzag corresponds in the BFL to a component that goes totally over or totally under and can be separated from the rest of the BFL by Reidemeister moves *II* and *III*. Assume the following convention on the colors of a gem: $0 \equiv$ pink, $1 \equiv$ blue, $2 \equiv$ red, $3 \equiv$ green. We begin by proving a result which simplifies considerably the passage “blink \rightarrow gem” first given in [KL94].

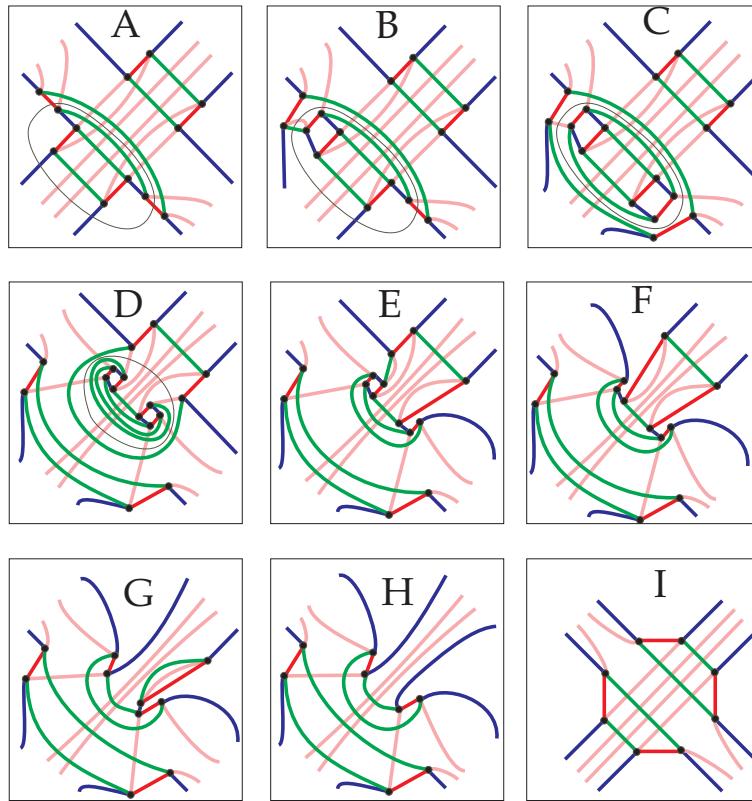


Figure 4.3 Simplifying the gem of a blink: from 12 to 8 vertices by crossing

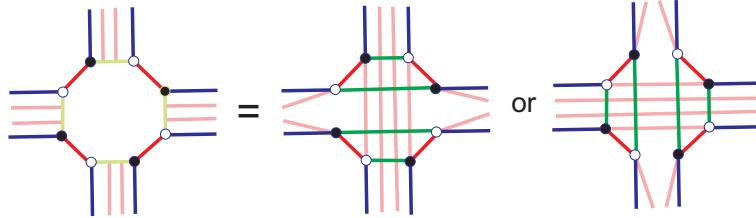
Theorem 4.4.1. *Given a g-blink B with no alternating g-zigzags it is possible to obtain a gem J^\downarrow where each edge of the blink (which corresponds to a crossing of the associated BFL) becomes the sub-configuration of 8 vertices shown in Figure 4.3I so that B and $G(B)$ induce the same space.*

Proof. It is proved in [KL94] that replacing each crossing of the BFL associated to the blink by

the configuration of Figure 4.3A the final gem J^\downarrow will have the desired property. The rest of the proof consists in effecting dipole moves in J' so as to arrive at J . The sequence of dipole moves are depicted in Figure 4.3. The dipole moves are local and should be made in the neighborhood of each original crossing of the BFL. The resulting gem is J^\downarrow . \square

The gem obtained from a blink by replacing each color of the BFL by the configuration of Figure 4.3I is called the *reduced canonical gem* of the blink.

We introduce the following notation to represent both a crossing and its switched form. The *octagon* of a crossing corresponds to an unidentified crossing. This is indicated by light green edges in the place of the normal green ones.



In Figure 4.4 we display a complete example of the above algorithm to go from a blink B to its canonical gem $J(B)$ inducing the same space. This example corresponds to Poincaré's homology sphere. Observe that an immersion of the gem in the plane is directly obtained from the embedding of the BFL. The gem obtained is bipartite. In going clockwise along the (blue,red)-gons (which corresponds to the faces of the BFL) the red edges go from a black to a white vertex. Observe that the pink-green gons form a neighborhood of the original blink. The convention here is that the green edges are the overpasses, while the pink edges the underpasses.

The difference between the *canonical reduced* gem of the blink $J^\downarrow(B)$ and the *canonical* gem of the blink $J(B)$ is that we introduce in the latter two 2-dipoles (red-green digons) at each site corresponding to a g-edge of the original g-blink. While redundant these $4|E(B)|$ vertices are convenient for our purposes as we show next. In the computer implementation we use only $J^\downarrow(B)$. The construction of Figure 4.4 emphasizes the geometric simplicity of the algorithm.

The main point in using the auxiliary red-green digons in defining $J = J(B)$ is that they induce, for each directed g-edge e between crossings α and γ , three cylinders $\mathcal{C}_e, \mathcal{C}_\alpha, \mathcal{C}_\gamma$. For a

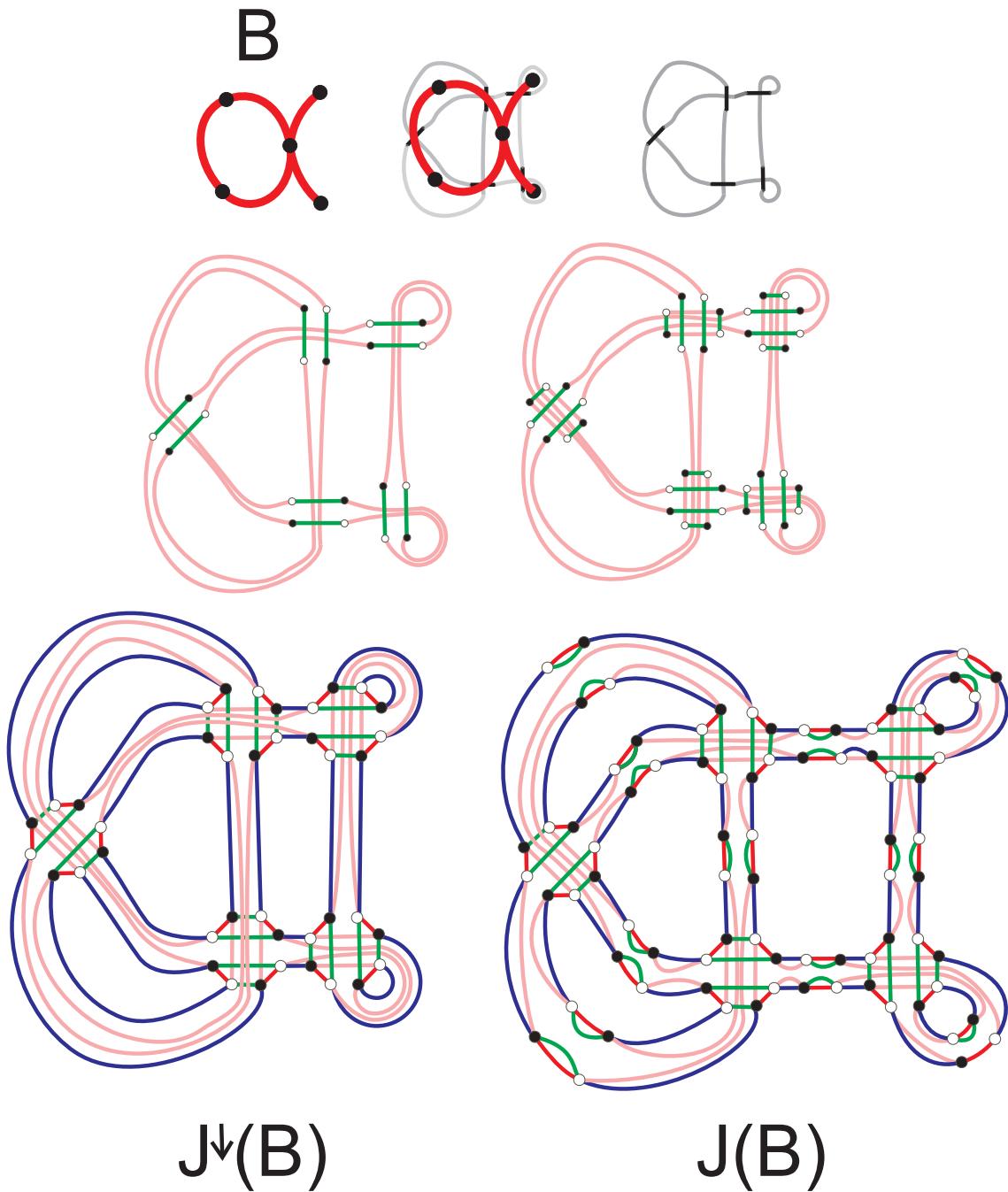


Figure 4.4 Obtaining the canonical gems $J^{\downarrow}(B)$ and $J(B)$ from a blink B

color i and a vertex α of a gem, denote by a_i the i -colored edge incident to α . Let a_i^* denote the 2-simplex in the dual pseudo-complex J^* corresponding to the edge a_i of the gem J .

Lemma 4.4.2. *Let q, r, s, t be the ends of the two red-green digons induced in J by the directed edge e of B , as shown in Figure 4.5. Then the sub-complex $\mathcal{C}_e = q_2^* + q_3^* + r_1^* + r_0^*$ is a non-singular cylinder in J^* .*

Proof. Two 2-simplexes of J^* in colors i and j have a common 1-simplex if and only if the dual edges are in the same (i, j) -gon. Note that q_2 and q_3 are in the same $(2, 3)$ -gon, q_3 and r_1 are in the same $(3, 1)$ -gon, r_1 and r_0 are in the same $(1, 0)$ -gon and r_0 and q_2 are in the same $(0, 2)$ -gon. To complete the proof just note that there are 4 distinct vertices in the subcomplex \mathcal{C}_e , that q_2 and r_1 are not in the same $(2, 1)$ -gon and finally, that q_3 and r_0 are not in the same $(3, 0)$ -gon. \square

The cylinder \mathcal{C}_e is contained in the dual pseudo-complex $J^*(B)$. Take a neighborhood $\mathcal{C}_e \times [0, \varepsilon]$ in $|J|$ identify $\mathcal{C}_e \times \{\varepsilon/2\} \equiv \mathcal{C}_e$ and define $\mathcal{C}_\alpha = \mathcal{C}_e \times \{0\}$ and $\mathcal{C}_\gamma = \mathcal{C}_e \times \{\varepsilon\}$. Let K be a simplicial complex which is a refinement of J^* containing both \mathcal{C}_α and \mathcal{C}_γ as subcomplexes. We observe that $|J| = |J^*| = |K|$ and that vertices r and s of gem J are in $\mathcal{C}_e \times [0, \varepsilon]$.

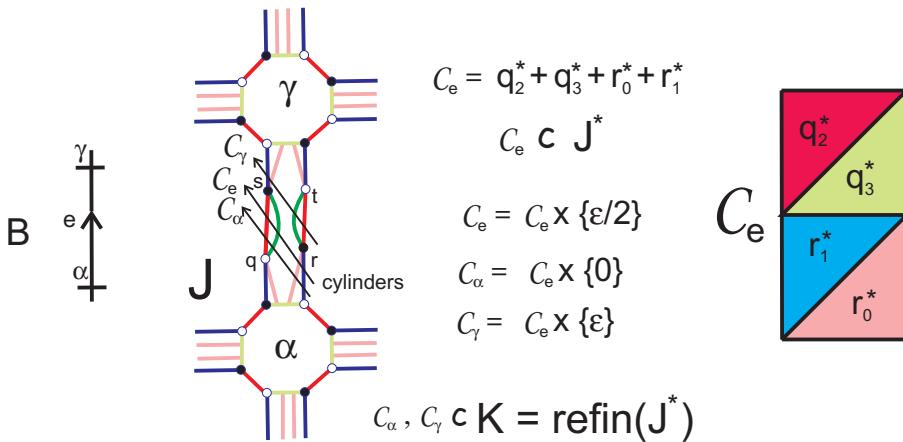


Figure 4.5 Some cylinders induced in $K(B)$ by a directed edge of the BFL between crossings α and γ

The procedure GBLINK2GEM that follows apply to g-blanks without alternating zigzags. The procedure is purely combinatorial and it teaches the computer to go from a g-blank G to the 3-gem J^\downarrow given in Theorem 4.4.1. For each vertex v of G we define two vertices v_i and v_o

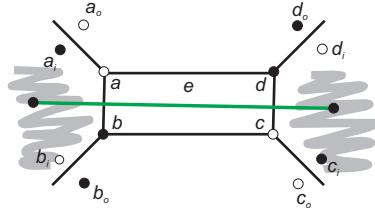


Figure 4.6 Scheme to define a 3-gem from a g-link

in j . Let e be a g-edge on G with vertices a, b, c, d as shown in Figure 4.6. Note that (a, b) and (c, d) are face-edges and (a, d) and (b, c) are vertex-edges. The vertices $a_i, a_o, b_i, b_o, c_i, c_o, d_i, d_o$ of J^\downarrow corresponding to a, b, c, d are also shown on Figure 4.6. The i (in) index indicates that the vertex is drawn inside a g-vertex and the o (out) index indicates that the vertex must be drawn inside a g-face (or outside the g-vertex). The edges of J^\downarrow are defined according to the following procedure:

1. Each g-edge e of G aligned like the scheme of Figure 4.6 induce the following edges on J^\downarrow :

	color 0	color 1	color 2	color 3
e is green	$(a_i, c_o), (a_o, c_i)$		$(a_i, b_i), (c_o, b_o), (c_i, d_i), (d_o, a_o)$	$(a_i, a_o), (b_i, d_o), (b_o, d_i), (c_i, c_o)$
e is red	$(b_i, d_o), (b_o, d_i)$		$(a_i, b_i), (c_o, b_o), (c_i, d_i), (d_o, a_o)$	$(a_i, c_o), (b_i, b_o), (a_o, c_i), (d_i, d_o)$

2. For every angle-edge $\hat{e} = (u, v)$ in G edges (u_i, v_i) and (u_o, v_o) , both with color 1, are added to J^\downarrow .

3. At this point, some vertices in J^\downarrow do not have a color 0 incident edge. Let u be a vertex in J^\downarrow without a neighbor of color 0. We add the edge (u, v) with color 0 in J^\downarrow , where v is the result of

```

 $x \leftarrow \text{neighbor}(v, 1)$  .
 $c \leftarrow 0$ 
while  $\text{neighbor}(x, c)$  is defined
 $x \leftarrow \text{neighbor}(x, c)$ 
 $c \leftarrow (c + 1) \bmod 2$ 
 $v \leftarrow x$ 

```

The expression $\text{neighbor}(x, c)$ denotes the vertex adjacent to x by color c in J^\downarrow . We do this until every vertex has an incident color 0 edge.

According to Theorem 4.4.1, J^\downarrow defined this way is a 3-gem and it induces the same space as G does. We denote this procedure described here as GBLINK2GEM. A complete example of a g-blink and the 3-gem defined by GBLINK2GEM is depicted on Figure 4.7.

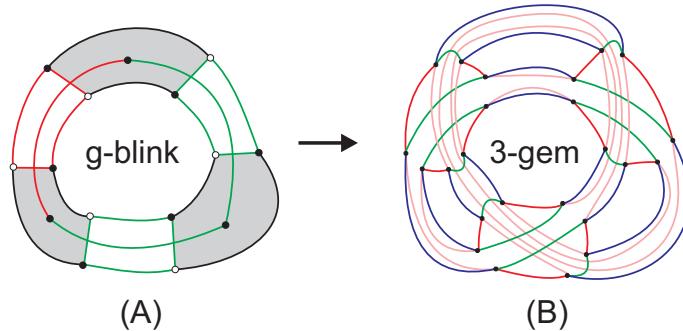


Figure 4.7 g-blink G and its reduced canonical 3-gem $J^\downarrow(G)$ defined by GBLINK2GEM

4.5 A proof of the partial reflection theorem

We first show that a breakpair $\{e, f\}$ in a g-blink C corresponds in $J^* = J^*(C)$ to a separating non-singular 2-torus T_{ef}^2 .

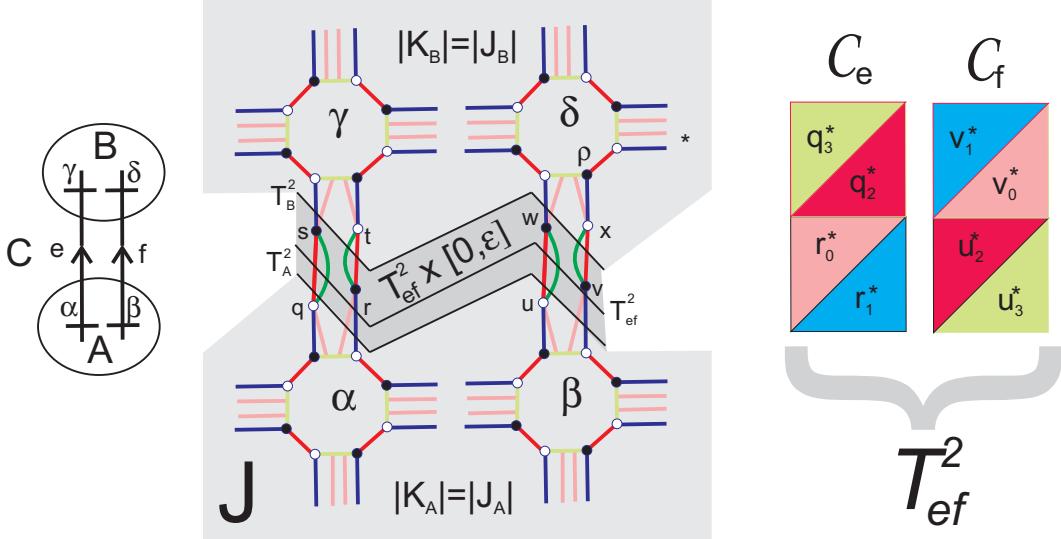


Figure 4.8 1 – 1 correspondence: breakpair $\{e, f\}$ in g-blink $C \leftrightarrow$ separating 2-torus T_{ef}^2 in $J^* = J^*(C)$

Lemma 4.5.1. *The subcomplex $T_{ef}^2 = \mathcal{C}_e + \mathcal{C}_f$ is a non-singular separating torus in the dual pseudo-complex J^* .*

Proof. We have seen already that \mathcal{C}_e and \mathcal{C}_f are cylinders in J^* . It remains to show that these cylinders have the same boundary and that $\mathcal{C}_e + \mathcal{C}_f$ is a torus. We refer to Figure 4.8. Note that q_2 and v_1 are in the same $(2, 1)$ -gon, r_1 and u_2 are in the same $(1, 2)$ -gon, q_3 and v_0 are in the same $(3, 0)$ -gon and that r_0 and u_3 are in the same $(0, 3)$ -gon. So, $T_{ef}^2 = \mathcal{C}_e + \mathcal{C}_f$ is a non-singular torus. It clearly separates. This completes the proof. \square

To simplify the notation henceforth we write T^2 in place of T_{ef}^2 . Consider an ε -neighborhood $T^2 \times [0, \varepsilon]$ of $T^2 \subset K$ so that $T^2 \equiv T^2 \times \{\varepsilon/2\}$. If we now remove $T^2 \equiv T^2 \times \{0, \varepsilon\}$ from $|K|$ then we have two disjoint spaces $|K_A|$ with boundary $\mathcal{C}_\alpha + \mathcal{C}_\beta = T_{\alpha\beta}^2 \equiv T^2 \times \{0\}$ and $|K_B|$ with boundary $\mathcal{C}_\gamma + \mathcal{C}_\delta = T_{\gamma\delta}^2 \equiv T^2 \times \{\varepsilon\}$ as shown in Figure 4.8. It follows that

$$|K| = |K_A| \cup (T^2 \times [0, \varepsilon]) \cup |K_B|, \quad (4.1)$$

with

$$|K_A| \cap (T^2 \times [0, \varepsilon]) = T_{\alpha\beta}^2, \quad (T^2 \times [0, \varepsilon] \cap |K_B|) = T_{\gamma\delta}^2, \quad |K_B| \cap |K_A| = \emptyset. \quad (4.2)$$

For the proof of the Partial Reflection Theorem we present the 2-torus as the quotient space of \mathbb{R}^2 by the lattice of integer points: $T^2 = \frac{\mathbb{R} \times \mathbb{R}}{\mathbb{Z} \times \mathbb{Z}}$. Seeing T^2 in this way, the π -rotational symmetry that we will need becomes simply $(x, y) \mapsto (-x, -y)$. Let $F = \mathbb{R} \times \mathbb{R} \times [0, \pi]$. Consider the auto-homeomorphism μ of F given by

$$\mu(x, y, \theta) = (x \cos \theta + y \sin \theta, -x \sin \theta + y \cos \theta, \theta).$$

Define \equiv' as the equivalence relation on F : $(x, y, \theta) \equiv' (x', y', \theta')$ if $\theta' = \theta$, $x - x' \in \mathbb{Z}$ and $y - y' \in \mathbb{Z}$. The quotient space F / \equiv' is denoted by F' . The image under μ of a the vertical segment linking $(x, y, 0)$ to (x, y, π) is a helicoidal curve that starts at $(x, y, 0)$, and finishes at $(-x, -y, \varepsilon)$. Note that any two vertical segments in F whose distance is an integer are identified. Clearly $F' \approx \mathbb{S}^1 \times \mathbb{S}^1 \times [0, \varepsilon]$.

Define \equiv_μ as another equivalence relation on F given by

$$(x, y, \theta) \equiv_\mu (x', y', \theta') \quad \text{if} \quad \mu^{-1}(x, y, \theta) \equiv' \mu^{-1}(x', y', \theta'), \text{ that is, if } \theta = \theta' \text{ and}$$

$$x \cos \theta - y \sin \theta - x' \cos \theta' + y' \sin \theta' \in \mathbb{Z}$$

$$x \sin \theta + y \cos \theta - x' \sin \theta' - y' \cos \theta' \in \mathbb{Z}.$$

The space F / \equiv_μ is denoted by \tilde{F} . Observe the simple fact that μ induces a homeomorphism sending F' onto \tilde{F} , also named μ by abuse of language. As a consequence of our definitions, two helicoidal curves in F are identified in \tilde{F} if their pre-images under μ are two vertical segments identified in F' . The action of μ in the fundamental domain centered at the origin from F' to \tilde{F} is shown in Figure 4.9.

We are now ready to prove Theorem 3.8.2

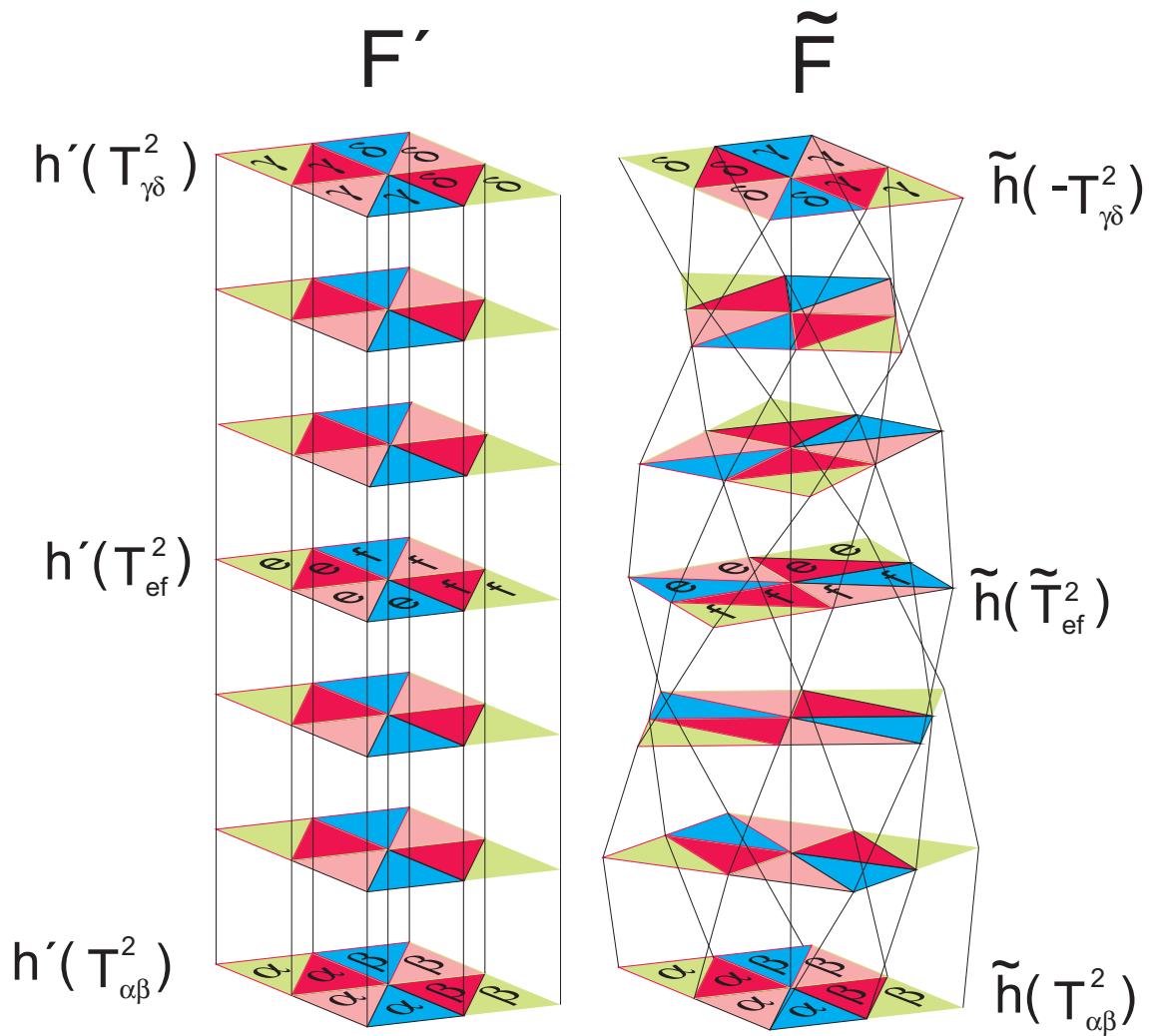


Figure 4.9 The action of μ on the fundamental domain centered at the origin mapping F' onto \tilde{F}

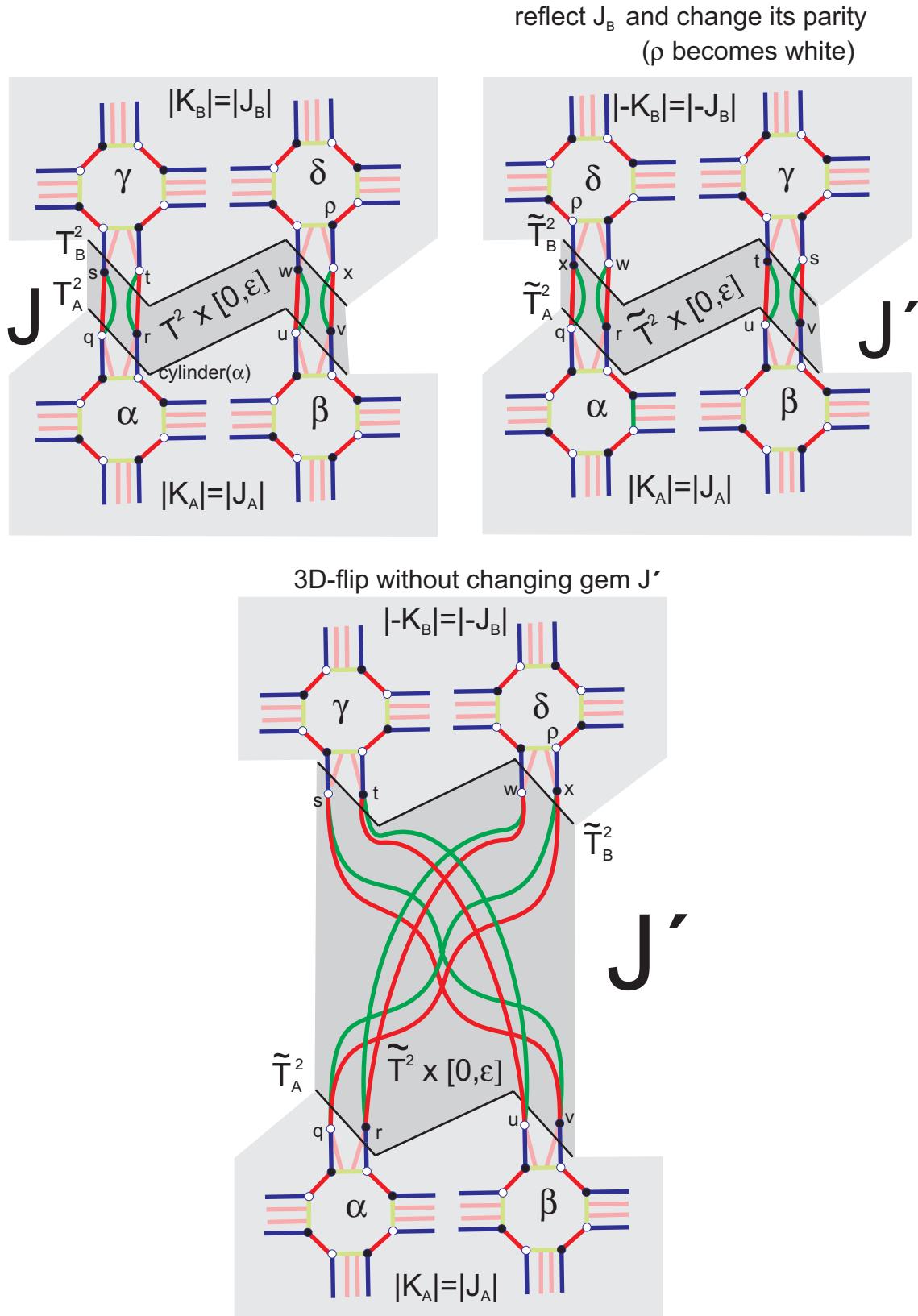


Figure 4.10 For the proof of the Partial Reflection Theorem: gems J and J' induce the same space

Proof of Theorem 3.8.2: Let A and B be arbitrary disjoint g-blanks, (a, b) a basepair on them. Then $A[a] + B[b] \xrightarrow{S} A[a] + \text{REFLECTION}(B)[b]$.

Proof. Let J be the canonical gem of the g-blank $A[a] + B[b]$ and J' be the canonical gem of g-blank $A[a] + \text{REFLECTION}(B)[b]$. Let K be a simplicial refinement of J^* containing the 2-torus T^2 (given in Lemma 4.5.1) as a subcomplex. Let \tilde{K} be a simplicial refinement of $(J')^*$ containing the 2-torus \tilde{T}^2 (which plays in J' the same role of T^2 in J) as a subcomplex. Let h' be a fixed homeomorphism which maps $T^2 \times [0, \varepsilon]$ onto F' and \tilde{h} be a fixed homeomorphism which maps $\tilde{T}^2 \times [0, \varepsilon]$ onto \tilde{F} . By applying Equations 4.1 and 4.2 to the tori T^2 and \tilde{T}^2 we have ($-K_B$ is K_B with orientation reversed: they are oriented simplicial complexes):

$$|K| = |K_A| \cup (T^2 \times [0, \varepsilon]) \cup |K_B|, \quad |\tilde{K}| = |K_A| \cup (\tilde{T}^2 \times [0, \varepsilon]) \cup |-K_B|, \quad |K_A| \cap |K_B| = \emptyset.$$

with

$$|K_A| \cap (T^2 \times [0, \varepsilon]) = T_{\alpha\beta}^2, \quad (T^2 \times [0, \varepsilon]) \cap |K_B| = T_{\gamma\delta}^2, \quad (4.3)$$

$$|K_A| \cap (\tilde{T}^2 \times [0, \varepsilon]) = T_{\alpha\beta}^2, \quad (\tilde{T}^2 \times [0, \varepsilon]) \cap |-K_B| = -T_{\gamma\delta}^2.$$

Define the map ρ from $|K|$ to $|\tilde{K}|$ to be the identity in $|K_A| \cup |K_B|$. For $x \in T^2 \times [0, \varepsilon]$, define $\rho(x) = [(\tilde{h})^{-1} \circ \mu \circ h'](x) \in \tilde{T}^2 \times [0, \varepsilon]$. Map ρ is the desired homeomorphism taking $|K|$ onto $|\tilde{K}|$. \square

We finish this chapter by proving the following Theorem about BFLs with a segment between crossings removed:

Theorem 4.5.2. *Let B° be a BFL B with a segment between crossings removed. There exists a well defined 3-manifold with toroidal boundary S° which can be associated to B° . Moreover, there exists a canonical way to close S° by attaching a solid torus to its boundary to get a space S such that $|B| = S$.*

Proof. The proof should be followed in Figure 4.11. Gem J is the canonical gem of the BFL B . Gems J' and J'' are obtained from J by 2-dipole creations. The last gem is subdivided into two gems with boundary H and U . The boundaries of these gems are homeomorphic to the 2-torus

$T_{ef}^2 = \mathcal{C}_e + \mathcal{C}_f$, given in Lemma 4.5.1. It can be shown that gem with toroidal boundary U induces a solid torus, thus completing the proof. \square

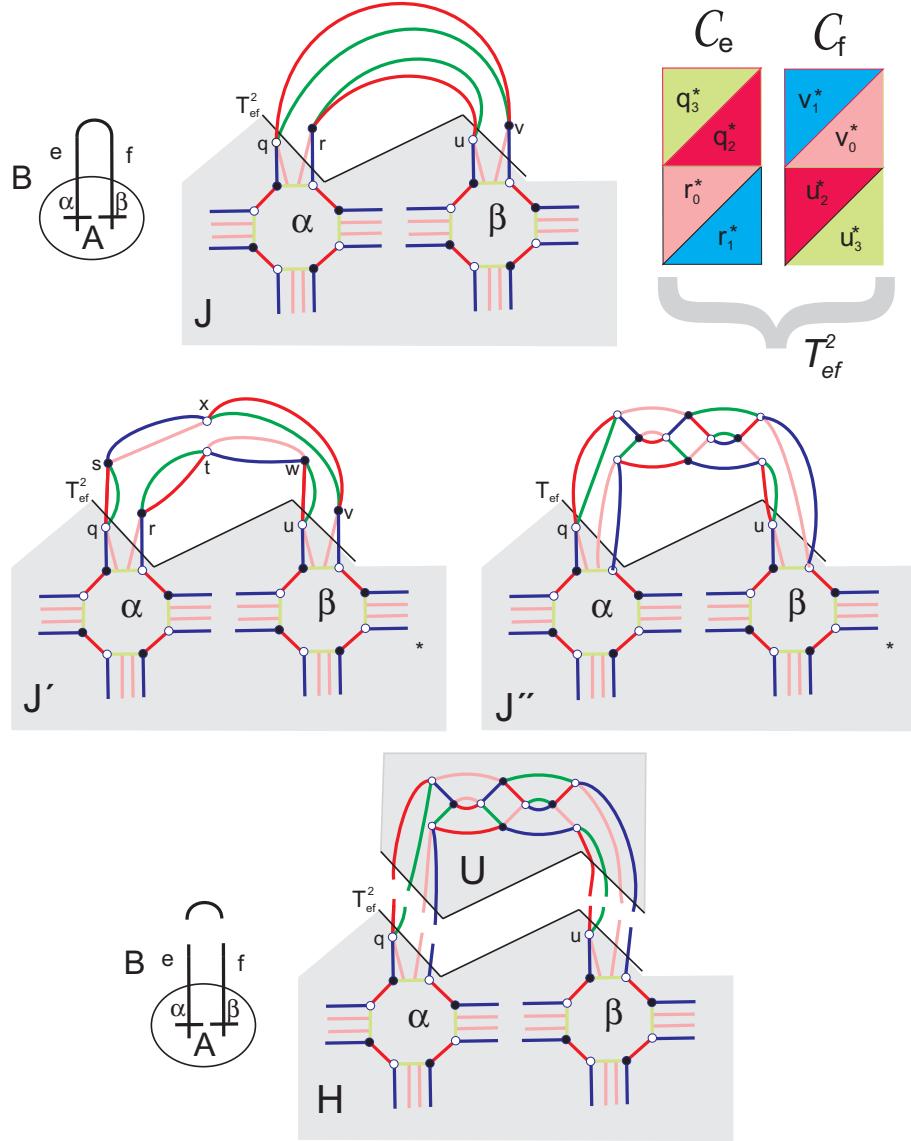


Figure 4.11 Space $|H|$, $\partial(|H|) = T_{ef}^2$, canonical way to close it: $|B| = |H| \cup_{T_{ef}^2 \equiv T_U^2} |U|$, $|U|$ solid torus

CHAPTER 5

Computational experiments and results

5.1 A census of prime spaces induced by small g-blanks

In Section 3.10 we saw that if we have a set with all representative g-blanks with $\leq k$ g-edges, then all spaces induced by blinks with $\leq k$ edges are there. Even though, for any fixed $k \geq 1$ this set is finite, we would like to search for spaces in an even smaller set and not lose any space. This may be done if we believe in the following reasonable conjecture.

Conjecture 5.1.1. *Let a space S be the connected sum of prime spaces A and B . If the minimal blink presentations for A and B have respectively n_A and n_B edges, then n_S , the number of edges for the minimal blink presentation of S , satisfies $n_S = n_A + n_B$.*

A *minimal blink for a space* is a blink that has the same number of edges or fewer edges than any other blink presentation for that space. A *prime space* is one that cannot be expressed by a connected sum of two or more spaces different from \mathbb{S}^3 . A *composite space* is a space that is not prime, *i.e.* one space that can be expressed by a connected sum of two or more spaces different from \mathbb{S}^3 . A blink presentation for any composite space is obtained by drawing the blinks of each of its prime pieces separately in the same drawing: a red-green plane graph with more than one connected component. This construction clearly defines an upper bound for the minimal number of edges of the composite space: the sum of the number of edges of a minimal blink for each of its prime pieces. Suppose space S is the connected sum of n prime spaces, a minimal blink for S with n connected components satisfies this upper bound, otherwise there would be a blink for one of its prime pieces with fewer edges than its minimum number of edges which is a contradiction. The only possibility that remains to the conjecture to be false is a blink presentation with less than n components. On the other hand we have,

Proposition 5.1.2. *If Conjecture 5.1.1 is true then, knowing one minimal blink for each prime space that has a blink presentation with $\leq k$ edges, it is possible to exhibit a minimal blink for all spaces (composite or prime) that have a blink presentation with $\leq k$ edges.*

Proof. If S is a prime space that has a blink with fewer than k edges then, by hypothesis, we already know one minimal blink for it. If S is composite, then exhibit together in a single drawing the minimal blink of all its prime pieces. By the Conjecture 5.1.1 this is a minimal blink for S . \square

A consequence of Proposition 5.1.2 is that, if Conjecture 5.1.1 is true, then to identify all spaces that have a blink presentation with fewer than k edges it is sufficient to know only the prime spaces that have a blink presentation with fewer than k edges. So, in our experiment, this is what we do. We focus only on prime spaces. We simplify our computational effort by answering not what are all the spaces with a blink presentation with fewer than k edges, but what are all the prime spaces with a blink presentation with fewer than k edges. So, we may reduce the set of representative g-blanks to representative g-blanks that are prime or, in practice, that are not easily shown composite.

Spaces have an orientation. If we swap the red-green edges of a blink the effect on the induced space is its change of orientation. So, any set of blinks B that induces spaces S may be easily extended to a set of blinks B' that induces S and also the changed orientation version of the spaces in S . The set B' is just B plus the blinks of B with the red-green edges swapped. This leads us to the following definition: a *set of blinks* is said to be *k -prime-unavoidable* if every space with a blink presentation with $\leq k$ edges is induced by some blink in this set or a red-green swapped version of some blink in this set. These notions are analogously extended to g-blanks. A *set of g-blanks* is said to be *k -prime-unavoidable* if every space with a g-link presentation with $\leq k$ g-edges is induced by some g-link in this set or a red-green g-edges swapped version of some g-link in this set.

What we mean concretely by the title of this section: *a census of prime spaces induced by g-blanks* is a triple

$$(k, \mathcal{B}, f : \mathcal{B} \rightarrow \{1, \dots, n\}),$$

where k is a positive integer, \mathcal{B} is a k -prime-unavoidable set of g-blanks and f is a surjective function that maps each g-blank in \mathcal{B} to an integer in $\{1, \dots, n\}$ satisfying the constraints: if $B_1, B_2 \in \mathcal{B}$ induce the same space or induce the same space with swapped orientations then $f(B_1) = f(B_2)$, else $f(B_1) \neq f(B_2)$. Note that f defines a partition of \mathcal{B} into n classes where the g-blanks in each class induce the same space modulo orientation. For this reason we call f the *partition function* of the census. In view of this definition of a census of prime spaces, the steps to build one are: (1) define k ; (2) define a k -prime-unavoidable set of g-blanks; (3) define the partition function f .

5.2 A prime-unavoidable set of g-blanks: U

To obtain a census of prime spaces induced by g-blanks with $\leq k$ edges, a set of k -prime-unavoidable g-blanks is needed. Before defining the specific way we did this generation it is good to say that in theory what is needed to do is simple: enumerate all representative g-blanks up to size k and discard those that you can show that are composite or that are not minimal. In practice we use some shortcuts to avoid a full enumeration of all representative g-blanks.

The procedure we defined to obtain a k -prime-unavoidable set was a pipeline with 4 steps. The output of each step was the input to the next one. The final and intermediate results of this procedure for $k = 4$ is shown on Figure 5.1. The steps on this pipeline, presented on this figure by an arrow and a number, are named: (1) BLOCKGENERATION, (2) BLOCKCOMBINATION, (3) COLORING and (4) FILTERING.

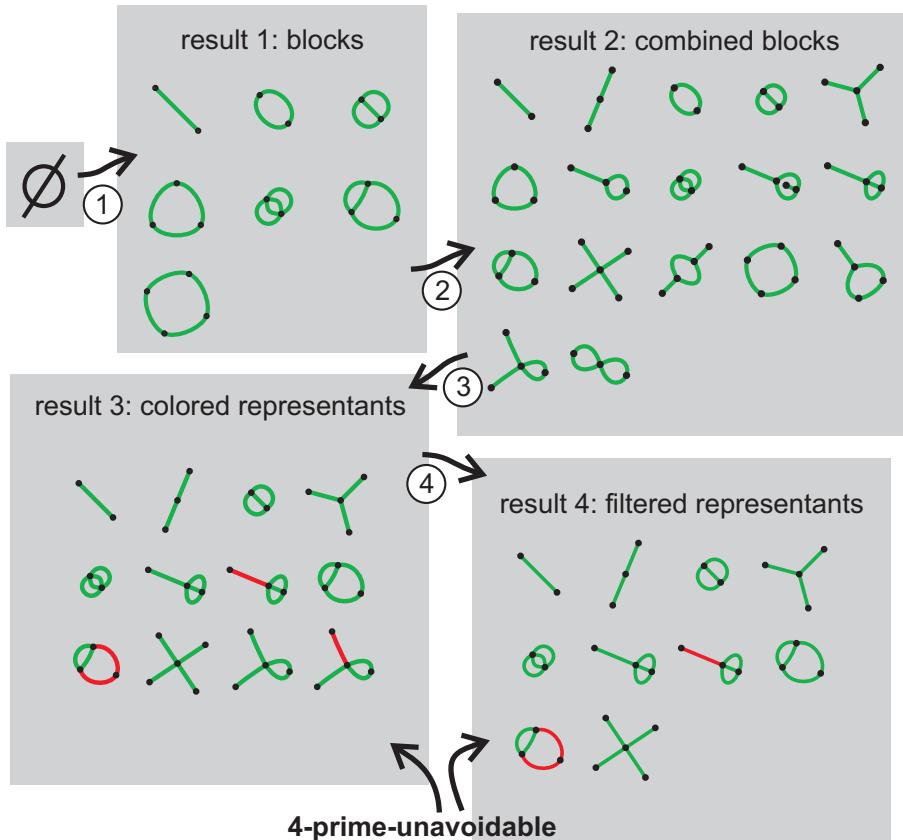


Figure 5.1 Pipeline of the k -prime-unavoidable set generation for $k = 4$

The BLOCKGENERATION step has as input one positive integer k : the maximum number of edges. Its output is all possible 2-connected plane graphs with number of g-edges not exceeding k plus the single-edge plane graph. By convention we see all these plane graphs as green-edged blinks. The blocks, besides the single-edged one, are obtained from the plane graph with two parallel green edges shown on Figure 5.2A by applying inductively and in all possible ways *vertex subdivisions* and *face subdivisions*. An example of vertex subdivision may be seen on Figure 5.2B. Any two distinct angles on a vertex are a base for this operation. An example of face subdivision may be seen on Figure 5.2C. Any two distinct angles on a face are a base for this operation. For $k = 4$, the number of resulting blocks is 7 as it is shown on Figure 5.1. The block term used here is also aligned to the fact that the g-blanks induced from these resulting green-edged blinks do not have breakpairs.

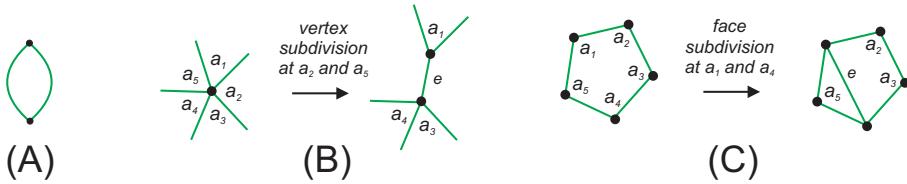


Figure 5.2 Block generation

The BLOCKCOMBINATION step has as input k , the maximum number of edges or g-edges, and the resulting blocks from the BLOCKGENERATION procedure. Here we see this input as green g-blanks and apply the following algorithm. Let B the set with these input g-blanks or blocks. Make $A_1 = B$. For i from 2 to k make A_i the result of *combining* every g-blank at A_{i-1} with each g-blank in B . Combining a g-blank G with n_G g-zigzags to a g-blank G' with $n_{G'}$ g-zigzags results in $n_G \times n_{G'}$ g-blanks. This is the result of merging G and G' on basepairs coming from all distinct combinations of g-zigzags. This includes all possible spaces obtainable from merging G and G' as asserts Proposition 3.9.3. The g-blanks that overflows the maximum number of g-edges k are discarded. For $k = 4$, the number of resulting combinations is 17 as it is shown on Figure 5.1. Now we do an important observation. Merging two g-blanks and then assigning a color to each of its g-edges is the same as assigning the right colors in each of the two g-blanks before merging and then merging them. This implies that coloring the all-green g-blanks resulting from this step in all possible ways really spans all possible spaces.

The COLORING step has as input the all-green g-blanks from the BLOCKCOMBINATION procedure. The idea is to assign all possible g-edge color combination to each of the given g-blanks. For each g-blank assigned with a coloring some tests are made and this g-blank may be discarded if it is asserted that, by doing this, we are not losing a minimal g-blank to that same space (or its swapped orientation version). Let G be a g-blank already assigned a coloring, these tests are the following:

1. If the number of red g-edges on G is greater than the number of green g-edges then it is discarded. This is justified by the fact the red-green g-edges swapped version of G will not be discarded by this rule (green g-edges is greater than red g-edges) and it induces the same space as G with orientation changed.
2. If G contains the structure shown on the left side of Figure 5.3A it is possible to apply a Reidemeister move of type II reducing by 2 the number of crossings and preserving the space. So G is unnecessary once its induced space was already considered by some g-blank with fewer g-edges.

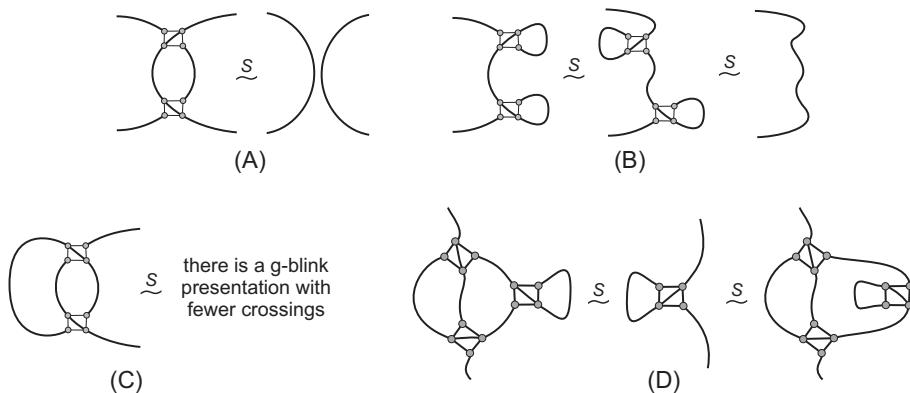


Figure 5.3 Structures to identify g-blanks that may be discarded

3. If G contains the structure shown on the left side pattern or the middle pattern of Figure 5.3B then it is unnecessary. If it contains the left side pattern of Figure 5.3B, by a ribbon move it is converted to the pattern on the middle of Figure 5.3B that may be converted by Whitney Trick to the right pattern of Figure 5.3B. All of them induce the same space, and the right pattern has fewer crossings.

4. If G contains the pattern on Figure 5.3C then it has a *circumcised component* and may be simplified by moves in the BFL calculus to a g-link with fewer crossings as it is explained on pages 138–140 of [KL94]. So, it may be discarded.
5. If G contains the left or the right pattern on Figure 5.3D then it may be simplified by the move $K_4(1)$ of BFL calculus to the middle pattern with only one crossing. So, it may be discarded.
6. If G seen as a BFL contains more than one component (more than one g-zigzag) and one of the components is completely overcrossing the others or completely undercrossing the others than it may be separated by Reidemeister moves and is not a minimal presentation.

If g-link G passes all tests then one last transformation is done. The g-link included in the result set of this step is actually $\min\{r(G), r(-G)\}$: the smallest g-link between the representative of G or the representative of $-G$ (*i.e.* g-link G with all crossings changed (C) or, equivalently all g-edge colors swapped). This resulting g-link is asserted to induce the same space as G or its changed orientation version. Observe that the g-links resulting from this step are all representatives. For $k = 4$, the number of g-links resulting from this step is 12 (see Figure 5.1).

The FILTERING step has as input the representative g-links resulting from the COLORING step. Let B be this input set and $R = \{\}$, initially empty, be the result set. The filtering algorithm flows like this:

```

1: while  $B$  is not empty do
2:    $G \leftarrow$  an element of  $B$ 
3:    $RM3 \leftarrow$  closure of  $G$  by Reidemeiter III Move
4:   if no element of  $RM3$  may be discarded by rules 2 to 6 of the COLORING step then
5:      $R \leftarrow R \cup \{G\}$ 
6:   end if
7:    $B \leftarrow B \setminus RM3$ 
8: end while

```

The idea of this step is to use the Reidemeister III move, that preserves the number of crossings and the space, to find some blink version of the space that may be simplified by the

rules 2 to 6 explained on the COLORING step. If there exists such a version then that g-link and the whole closure of g-links obtained from it by Reidemeister III may be discarded. Otherwise only the given g-link on its Reidemeister III closure may be preserved (that is why we remove all RM3 set on line 7 of the above algorithm). The result of this step for $k = 4$ is a set with 10 g-links (see Figure 5.1).

We name U the set resulting from this pipeline for $k = 9$. This set is, as we saw in its construction, a 9-prime-unavoidable set and has 3437 g-links divided in 1 g-link with 1 g-edge, 1 g-link with 2 g-edges, 2 g-links with 3 g-edges, 6 g-link with 4 g-edges, 12 g-links with 5 g-edges, 43 g-links with 6 g-edges, 133 g-links with 7 g-edges, 585 g-links with 8 g-edges and 2654 g-links with 9 g-edges. We denote by $U[1]$ the smallest g-link in U , $U[2]$ the second smallest g-link in U , up to $U[3437]$ the greatest g-link in U . The time elapsed to generate the set U was less than twelve hours. At this point we have the first two ingredients to a census of prime spaces up to 9 g-edges: $(9, U, ?)$. The only missing part is the third ingredient of a census: the partition function. This is the subject of next section.

5.3 Topological classification of g-links in U

The set U is a 9-prime-unavoidable set of g-links. The next step to define a census of prime spaces with a g-link (or blinks) presentation with up to 9 g-edges (edges) is to identify what g-links induce different spaces and what g-links induce the same space (modulo the orientation). To reach this goal the first thing we did was to calculate, for each g-link in U , the homology group and the Witten-Reshetikhin-Turaev quantum invariant (for $r \in \{3, 4, 5, 6, 7, 8\}$) of its induced space. In Sections 3.4 and 3.5 we show how to do this calculation from a g-link presentation of a space. To help on this exposition we will use HG, QI and HGQI when we want to refer to the homology group, quantum invariant, respectively. The time elapsed to calculate the HG and QI of all g-links in U was less than half an hour.

The effect on the quantum invariant of changing the orientation of a space is that each complex number in its sequence becomes its conjugate (remember that the quantum invariant

is a sequence of complex numbers). So when two g-blanks have their QIs differing by, for each r , one being the conjugate of the other, then these g-blanks may induce the same space in different orientations. As it was defined for a census, g-blanks that induce distinct orientations of the same space are mapped, by the partition function, to the same value. We are interested in spaces modulo orientations. For this reason, we mounted from the HG and QI data of each g-blank in U the information named HGnQI (HG and normalized QI). It is just the pair HG and nQI where nQI is the normalized version of QI: if the first complex entry with imaginary part in QI is negative then nQI entries are the conjugate of QI entries, otherwise nQI is equal to QI.

Using the HGnQI information of each g-blank we partitioned the set U into 501 classes. The 3437 g-blanks of U induced 501 distinct HGnQIs. One consequence of this fact is that U induces, at least, 501 different (modulo orientation) spaces. This HGnQI partition of the set U is a first candidate for the partition function to the census we want. If the homology group together with the quantum invariant is a strong enough invariant of space, then we already have the exact partition function we want. To prove this, it remains to show that all entries in the same HGnQI class indeed induce the same space. To do this, we need another tool. Before entering into this topic, we want to make some comments about the HGnQI partition of U .

After partitioning the set U in HGnQI classes, a very apparent fact was that the quantum invariant was almost perfect in identifying the 501 classes. It, alone, separated U into 498 classes. In only 3 cases the homology group was important to distinguish spaces that the quantum invariant did not. In Figure 5.4 we show a blink presentation for these 3 cases. In the

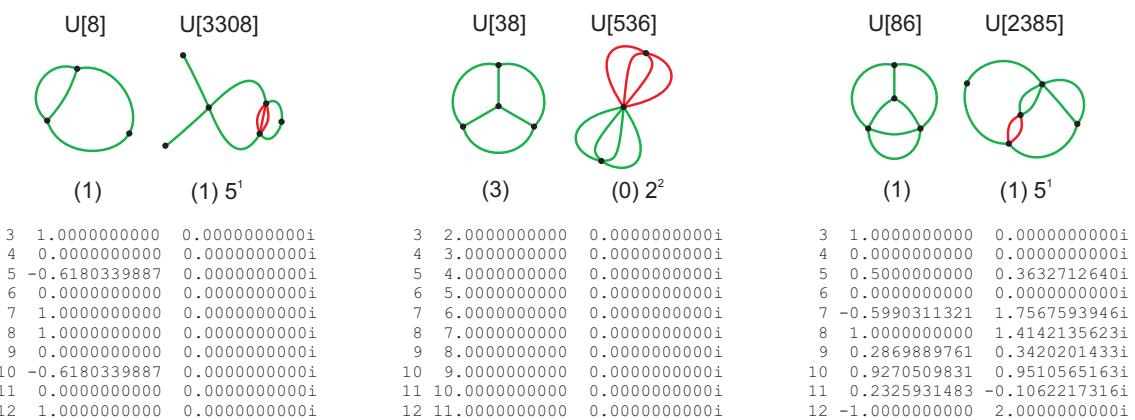


Figure 5.4 The 3 cases in U where HG helped QI to distinguish spaces

first case, $U[8]$ has HG (1) while $U[3308]$ has HG (1) 5^1 and the 12 first entries of the quantum invariants, as is shown, are all real numbers. Indeed, all entries in the QI of $U[8]$ sequence are real once it has only one orientation. For a proof of this fact note that $\text{DUAL}(U[8])$ is $U[8]$ with all edges being red which is also $U[8]$ after applying (C) (change crossings). As these two g-blanks are the same g-blank and they are the two possible orientations for the space, we can conclude that this space has only one orientation. In the second case, $U[38]$ has HG (3) while $U[536]$ has HG (0) 2^2 and the 12 first entries of the quantum invariants, as is shown, are all integer numbers. In the third case, $U[86]$ has HG (1) while $U[2385]$ has HG (1) 5^1 and the 12 first entries of the quantum invariants, as is shown, are all complex numbers. It might be the case that the quantum invariant in some point distinguishes these spaces as the homology group did. We did not check this.

Now let's return to our open problem. Are the 501 HGnQI classes really inducing the same space or some of them induce more than one space? To answer this question we used 3-gem theory. We saw in Section 4.4 that from a g-blank we can obtain a 3-gem inducing the same space as it does. This fact enables us to change our question in g-blank language into a question in 3-gem language. The idea is to take, for each of the 501 HGnQI classes, all g-blanks in the same HGnQI class, calculate a 3-gem version for it and then try to find a proof that they are the same space, *i.e.* a path of “moves” in 3-gems that preserve the induced space connecting all these 3-gems.

The 3-gem that we associated to each g-blank in U was given by the function GEMOFG-BLINK shown in Algorithm 3. The idea of this function is to simplify the initial 3-gem of the g-blank given by the GBLINK2GEM procedure explained in Section 4.4 using dipole cancelations, ρ_2 -moves, ρ_3 -moves and TS-moves until it cannot be simplified anymore or until a certain timeout occurs. This step resulted in 999 distinct gems for the 3437 g-blanks of U . We used a timeout of 12 seconds. From these 999 3-gems, 657 (or 65%) gems were proven to be TS-class representatives (minimum 3-gem in the class) such that the entire class had no simplifications of the types: dipole cancelation, ρ_2 -move and ρ_3 -move. The remaining 342 3-gems were the minimum 3-gem obtained before the timeout occurred. The 3-gem also encodes the orientation of the space, but, in this case we used 3-gems modulo orientation. In other

words, the 3-gem we associated to each g-link could be exactly the same space, or the same space with orientation changed. As it might be clear now, this is enough here: spaces modulo orientation.

Algorithm 3 Algorithms for 3-Gems

<pre> 1: function GEMOFGBLINK(G) 2: $J \leftarrow \text{GBLINK2GEM}(G)$ 3: while true do 4: SIMPLIFYGEM(J) 5: SEARCHINTSCCLASS(J, 12 seconds) 6: if J has no dipole, no ρ_2-pair and no ρ_3-pair then 7: break 8: end if 9: end while 10: return J 11: end function </pre> <pre> 1: procedure SIMPLIFYGEM(J) $\triangleright J$ becomes its simplified version 2: while true do 3: if there is a dipole in J then 4: apply dipole cancelation in J 5: else if there is a ρ_3-pair or ρ_2-pair in J then 6: apply ρ_3-pair or apply ρ_2-pair in J 7: else 8: break 9: end if 10: end while 11: end procedure </pre>	<pre> 1: procedure SEARCHINTSCCLASS($J, maxtime$) 2: $C \leftarrow \{J\}$ $U \leftarrow \{J\}$ $\triangleright C$ is the current TS-class of J and U are the unprocessed gems 3: while U is not empty and elapsed time < $maxtime$ do 4: $J' \leftarrow$ a gem in U 5: $U \leftarrow U \setminus \{J'\}$ 6: for all possible TS-moves m in J' do 7: $J'' \leftarrow J'$ with TS-move m applied 8: if $J'' \notin C$ then 9: if there is a dipole or ρ_2-move or ρ_3-move in J'' then 10: $J \leftarrow J''$ and exit 11: else 12: $U \leftarrow U \cup \{J''\}$ 13: $C \leftarrow C \cup \{J''\}$ 14: end if 15: end if 16: end for 17: end while 18: $J \leftarrow \min\{J' \in C\}$ 19: end procedure </pre> <hr/>
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The remaining challenge at this point was to find whether these 999 3-gems, seen as nodes of a graph, could be connected in 501 connected components, where a connected component means that all gems in the same component induce the same space (modulo orientation). So, we started to insert edges in this graph of 999 nodes and initially no edge. This was done by “perturbing” the gems on the nodes by using U-moves and then applying the same simplification procedure used in the function GEMOFGBLINK until a gem with no simplification or a timeout occurred. This final gem, if not yet in our graph, was added as a new node. An edge,

if not existent, from the perturbed 3-gem node to this new, or already existent, node, was also added to the graph. This procedure was oriented by the HGnQI classes, so if a HGnQI class was already a single connected component then nothing more was needed to be done there: the HGnQI class was proved to be a single space (modulo orientation). This procedure of connecting the gems of a HGnQI class on this graph took about 3 days with manual interference being important: by looking at the graph we perturbed the most promising nodes. The final result was: 499 of the 501 HGnQI classes were proven to induce a single space (modulo orientation). In only two HGnQI classes we could not find a single connected component.

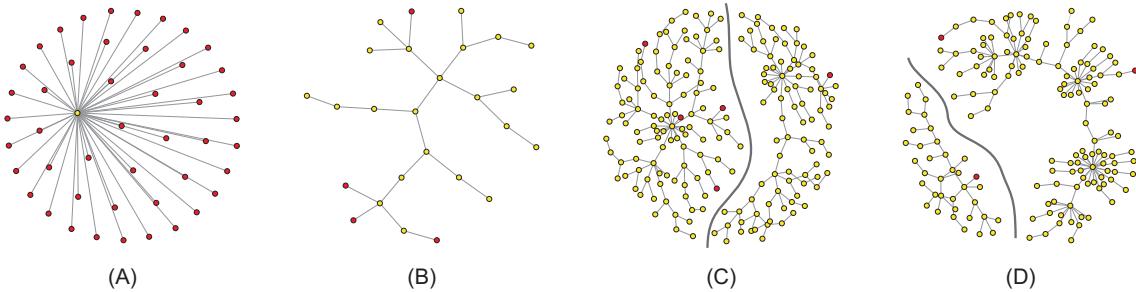


Figure 5.5 Graphs of g-blanks (red nodes) and gems (yellow nodes). The first two are trees and the last two are forests with two components (the two uncertainties)

Figure 5.5 shows subgraphs (trees) for 4 HGnQI classes on the final graph. The red nodes are g-blanks from U . The yellow nodes are the 3-gems. Note that every red node is connected to a single yellow node: this yellow node is the result of the GEMOFGBLINK applied to this g-blank. Figure 5.5A was an easy case where all g-blanks of the same HGnQI class were pointing right to the same 3-gem. Nothing was needed to do in this case. Figure 5.5B was one of the difficult cases: many redundant edges (not shown) and different 3-gems were generated before all g-blanks were connected.

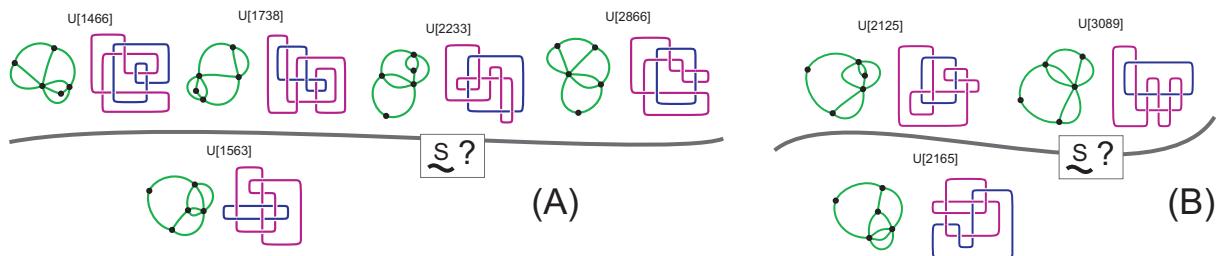


Figure 5.6 The only 2 classes with same HGnQI where a proof of the homeomorphism was not found

Figures 5.5C and 5.5D presents the two cases where one doubt was left. In each of these cases, two connected components remained: they are shown with the dark line separating them. In the first case, Figure 5.5C, the HGnQI class had 5 g-blinks where 4 of them were proven to be the same space. In the second case, the HGnQI class had 3 g-blinks where 2 of them were proven to induce the same space. A blink and BFL presentation for the g-blinks involved in these doubts are shown in Figure 5.6. In the first doubt, the g-blinks involved are $U[1466]$, $U[1563]$, $U[1738]$, $U[2233]$, $U[2866]$ and $U[1563]$ is the only g-blink we did not find a proof as being the same space (modulo orientation) of the others. In the second doubt, the g-blinks involved are $U[2125]$, $U[2165]$, $U[3089]$ and $U[2165]$ is the only g-blink we did not find a proof as being the same space of the others. Is there a proof for these two cases and we just could not find them or are these the only weak points of the HGnQI invariant on the set U ? We leave this question open and register it as the following conjectures.

Conjecture 5.3.1. *The spaces induced by all 5 blinks or BFLs on Figure 5.6A are the same.*

Conjecture 5.3.2. *The spaces induced by all 3 blinks or BFLs on Figure 5.6B are the same.*

The only reason we conjecture these stems from the fact that HGnQI have not failed in all other 499 cases. But, the fact that we had no success, after various days of computational effort trying to prove these conjectures using the simplification combinatorial dynamics of 3-gems, suggests the contrary: these conjectures are false. Figures 5.5C and 5.5D show the two trees that could not be connected for each case after all the computational effort.

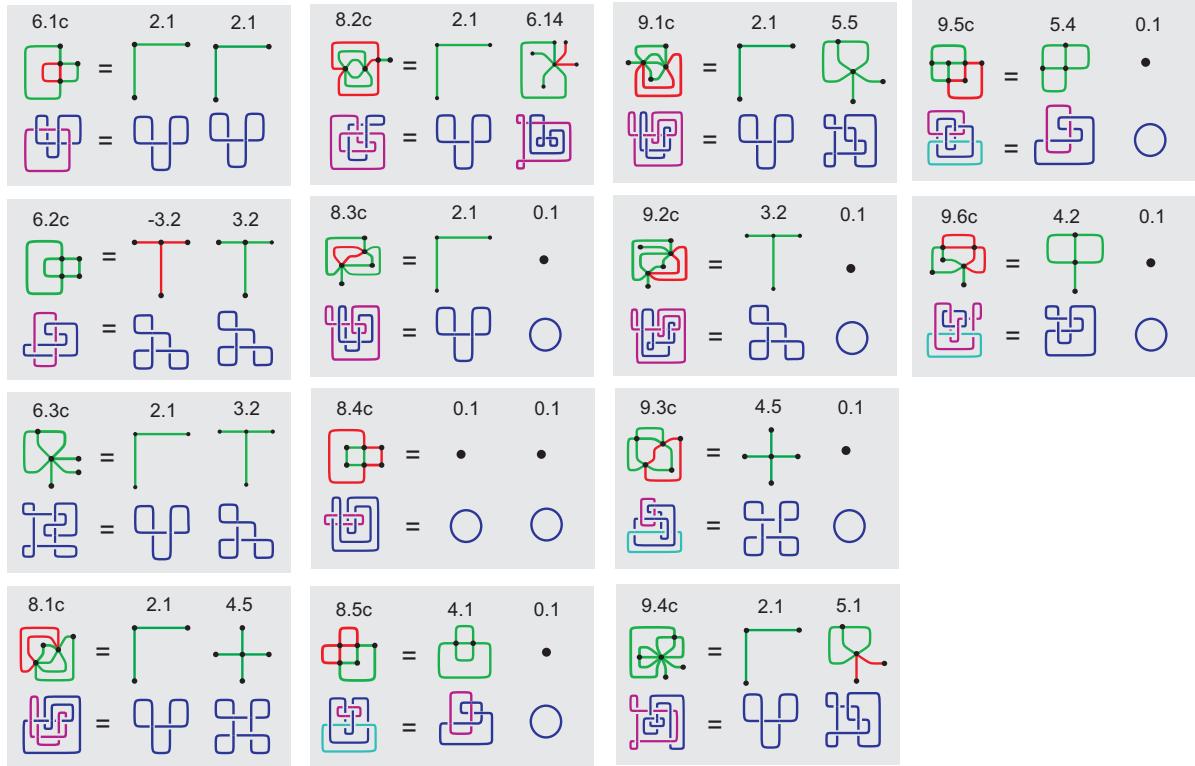
All data involved in all the experiments we explained here are in a computer program named BLINK. So a proof that all HGnQI classes indeed induce the same space, except for the two cases explained, can be exhibited by this program.

In the 3-gem presentation it is sometimes possible to identify that its induced space is composite. For example the space induced by g-blink $U[31]$ is also induced by a 3-gem (r_4^{18} in the 3-gems catalogue of [Lin95]) that contains a *disconnecting quartet*, *i.e.* four edges with distinct colors that disconnected the 3-gem. The existence of this structure in a 3-gem or the existence of handles, *i.e.* connected sums with $\mathbb{S}^2 \times \mathbb{S}^1$, is a proof that the induced space is composite. In the 501 HGnQI classes, using this kind of 3-gem information, we could prove that 14 of them

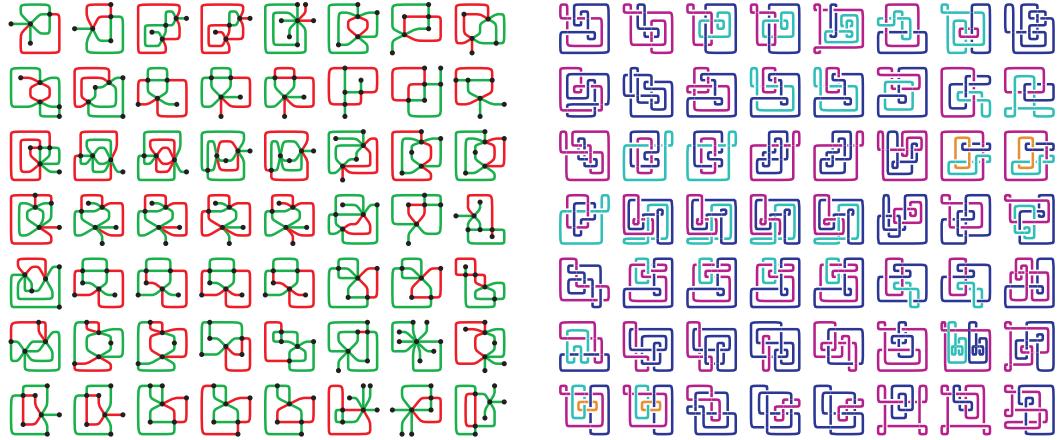
were composite. The rules that we used in the construction of U were not able to identify that some g-blanks induced composite spaces, but, anyway, that was not the goal there. The goal there was to create a small set of g-blanks that did not lose a minimal presentation by g-blank of a prime space. This is the important property of U : all prime spaces have a minimal g-blank presentation in U . Using this information of the 14 composite classes, we named each of the 501 HGnQI classes like this: the 487 classes that were not proven composite gained names 1.1, 2.1, 3.1 … 3.2, 4.1 … 4.5, 5.1 … 5.6, 6.1 … 6.19, 7.1 … 7.38, 8.1 … 8.119 and 9.1 … 9.296; the 14 classes that were proven composite gained names 6.1c … 6.3c, 8.1c … 8.5c and 9.1c … 9.6c. The number before the point stands for the number of g-edges of the minimal g-blank in U found for that space. Let $U[n.i]$ denote the smallest g-blank (*i.e.* smallest code) in class $n.i$, *i.e.* $U[n.i] = \min\{G \in n.i\}$. For instance $U[5.1]$ is $U[11]$ and $U[6.1c]$ is $U[31]$. The number after the point stands for the following: $n.1$ is the class where g-blank $U[n.1]$ has n g-edges and is the smallest g-blank among all classes $U[n.j]$, for any j that defines a valid class name; $n.2$ is the class where g-blank $U[n.2]$ has n g-edges and is the second smallest g-blank among all classes $U[n.j]$, for any j that defines a valid class name; and so on. The two classes that we do not know whether they induce a single space or two spaces are 9.126 (Figure 5.6A) and 9.199 (Figure 5.6B).

The 14 composite spaces in U are in Appendix B. The quantum invariant at level r of the connected sum of spaces $A_1 \dots A_n$ is the product of their quantum invariants at the same level divided by the r -th quantum invariant of \mathbb{S}^3 to the power $n - 1$. Using this we could align the orientations of the prime spaces that produced these composite spaces. Figure 5.7 shows explicitly these 14 spaces as a prime space composition with the correct orientation.

The space $\mathbb{S}^2 \times \mathbb{S}^1$ has a blink presentation that is just a vertex and no edges, *i.e.* a BFL that has no crossings and is just a closed loop. This space is a special one as it is the only prime space that has a blink presentation without edges. By the rules we used on the construction of set U this space needed not to appear once: (1) we did not include blinks without edges and (2) only one minimal presentation of a space was asserted to appear. This space should be included artificially after. In spite of that, $\mathbb{S}^2 \times \mathbb{S}^1$ appeared as class 6.5. Figure 5.8 shows a blink and a BFL for the 36 g-blanks in class 6.5. In a strict sense, this class could be named 0.1 and spaces

Figure 5.7 The 14 composite spaces in U

6.6 to 6.19 would be decreased by one to 6.5 to 6.18, but we do not do this.

Figure 5.8 Blink and BFL presentations for g-blanks in 6.5: space $\mathbb{S}^2 \times \mathbb{S}^1$

Theorem 5.3.3. Any prime space that has a blink presentation with ≤ 9 edges induces the same space (modulo orientation) as one and only one of the 487 blinks in Figure 5.9 or the 487 BFLs in Figure 5.10 or the 487 spaces shown in Appendix A.

Proof. The construction of set U asserts that it contains at least one minimal g-blink for each prime space except for space $\mathbb{S}^2 \times \mathbb{S}^1$, which is a special case where its minimal blink presentation has no edges: only a single vertex. In spite of that $\mathbb{S}^2 \times \mathbb{S}^1$ appears in U as class 6.5 so any prime space is included. The proof that there are only 487 (with 2 doubts) is in the program BLINK. \square

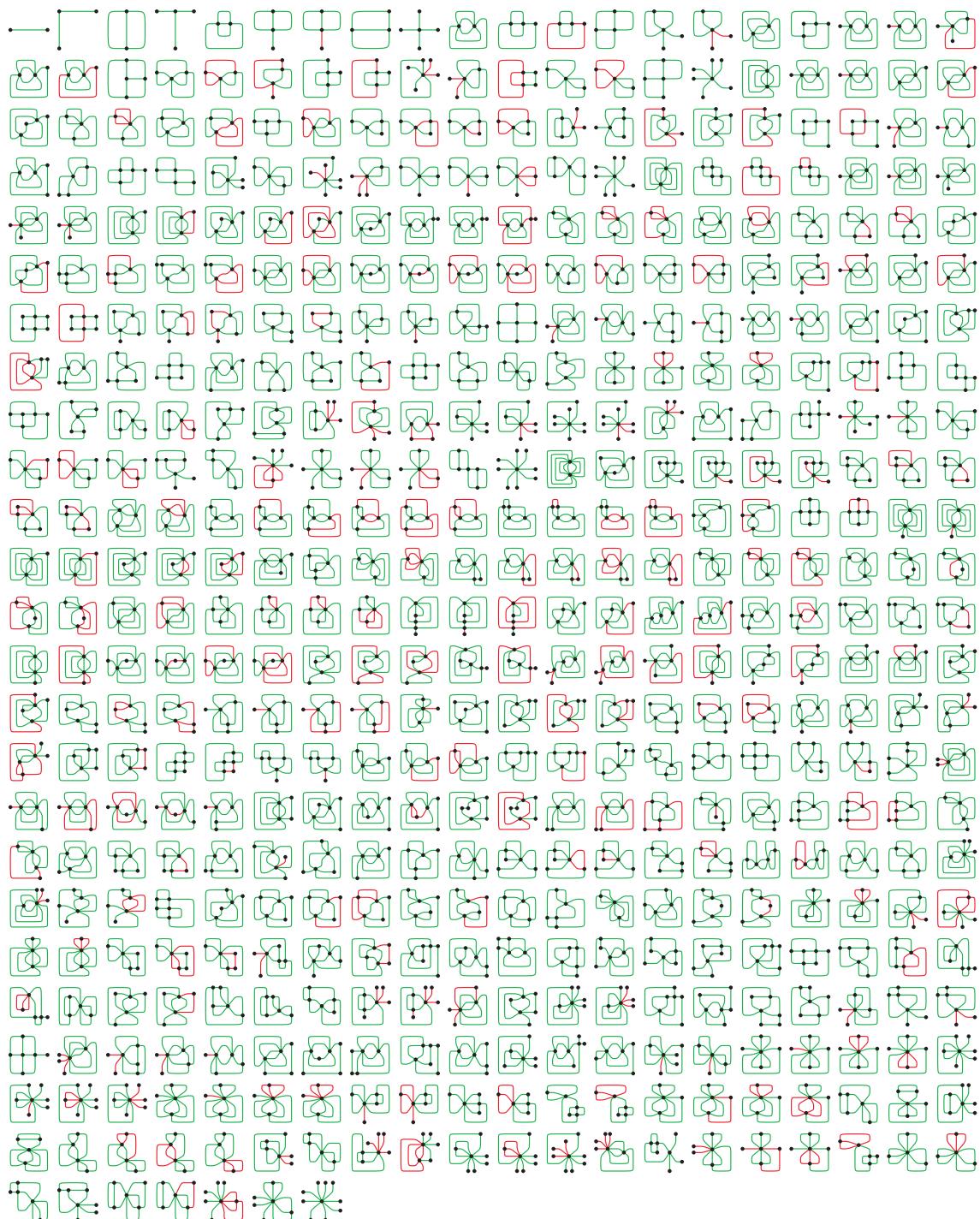


Figure 5.9 List of 487 blinks that induce once any prime space (modulo orientation) that has a blink presentation with ≤ 9 edges

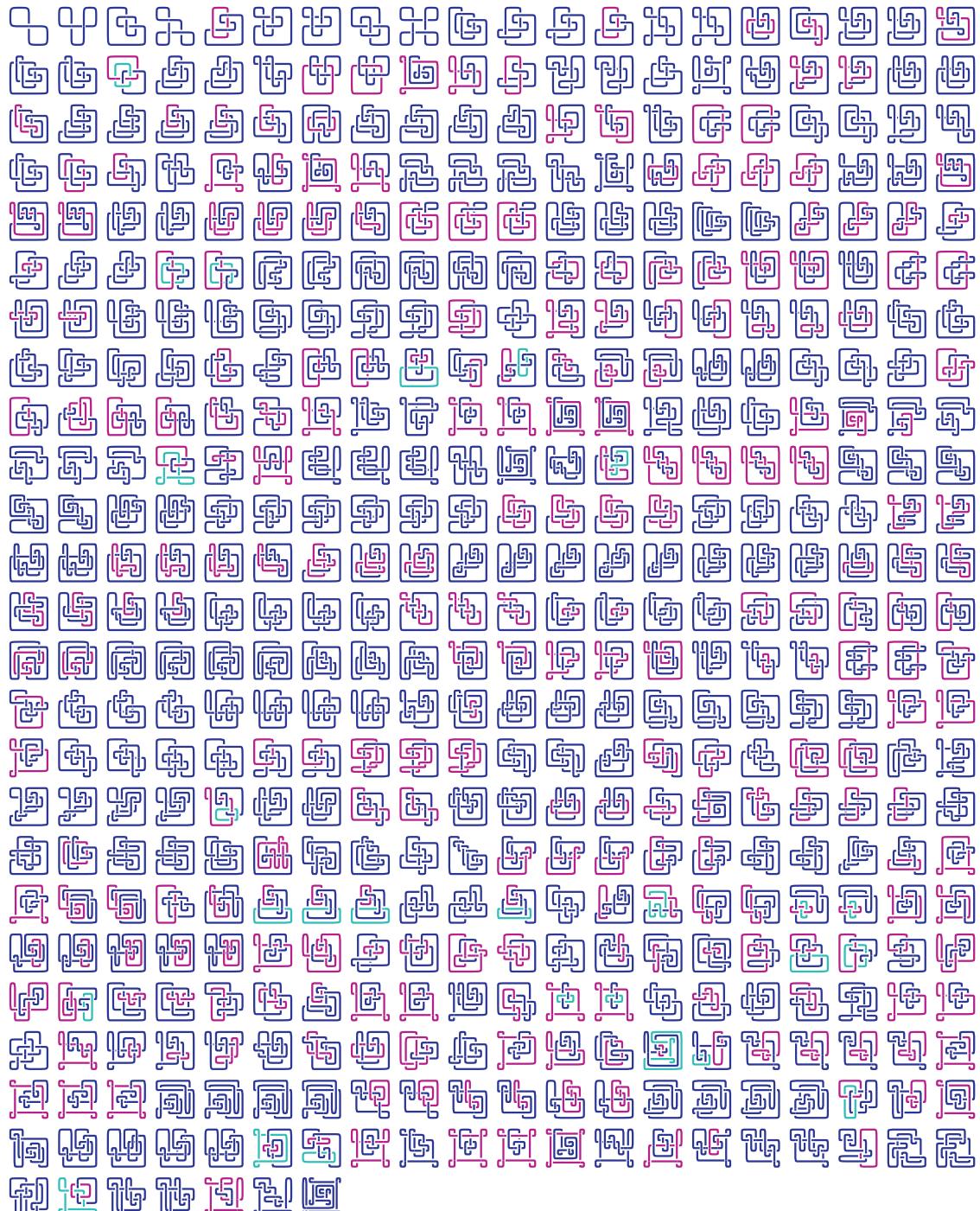


Figure 5.10 List of 487 BFLs that induce once any prime space (modulo orientation) that has a BFL presentation with ≤ 9 crossings

5.4 Spaces induced by simple 3-connected monochromatic blinks

Blinks bring to the stage a very interesting connection: spaces and plane graphs. Can concepts of graph theory when interpreted in space language bring light to some unknown aspect of spaces? Some new invariant for spaces?

With this spirit, what can we say about the space of a blink that is k -connected? In Chapter 3 we saw that the blocks (2-connected pieces) of a blink may be recombined in different ways leading to the same space. What are these blocks? In this crude form, this concept of block or more general k -connected blink does not mean something useful in the language of spaces because of the following observation: using the B_2 move of blink calculus (*i.e.* RM_2 in BFL calculus) explained on Section 3.2 one may obtain blinks with higher connectivity inducing the same space. But this comes at a price, these equivalent versions with higher connectivity contains local simplifications (moves that reduce the number of edges) that leads back to the first blink we started. A family of blinks that do not contain these local simplifications are the monochromatic blinks. Note that all simplification moves on the blink calculus shown in Section 3.2 are, except for $B_4(1)$, from pieces with two colors. When talking about blocks or higher connected monochromatic blinks there is no local simplification at all. So, the connectivity issue on monochromatic blinks might mean something on spaces.

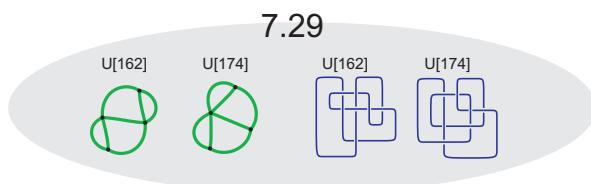


Figure 5.11 Non-trivial pair of green blocks (2-connected blinks) inducing the same space

Let B be a green (all edges green) blink, B' be a green blink whose map (plane graph) is the dual map of B , B'' be B reflected on the plane and B''' be B' reflected on the plane. As we saw in Chapter 3 all these blinks induce the same space modulo orientation. Let's denote as *trivial* a pair of blinks A and B if they induce the same space modulo orientation and $A \in \{B, B', B'', B'''\}$. A pair of blinks inducing the same space modulo orientation that is not trivial is called *non-trivial*. Are all pair of green blocks (2-connected blinks) that induce the same space modulo

orientation trivial? No. Space 7.29 in Appendix A has a counterexample. Figure 5.11 shows a pair of non-trivial green 2-connected blinks in space 7.29 that induces the same space. By the fact that they all induce the same space, there must exist paths connecting these blinks (or BFLs) using the moves on the blink calculus (or BFL calculus). Can you find such a path? We found the path via gem theory.

What about simple 3-connected monochromatic blinks? Are there non-trivial pairs of simple 3-connected monochromatic blinks? To answer this question we generated a set named T with all simple 3-connected green blinks up to 16 edges¹ and calculated their HGnQI invariants (QI up to level 8). The result was interesting. There are 708 simple 3-connected monochromatic g-blanks and they are divided in 381 classes HGnQI. These classes were named: 6.1t, 8.1t, 9.1t, 10.1t... 10.2t, 11.1t ... 11.2t, 12.1t ... 12.9t, 13.1t ... 13.11t, 14.1t ... 14.36t, 15.1t ... 15.76t and 16.1t ... 16.242t. This name convention is analogous to the convention of the HGnQI classes in U except for the letter “t” at the end. These classes are presented with details in Appendix C. In these 381 classes there are only 11 classes with exactly one non-trivial pair candidate. They are shown in Figure 5.12.

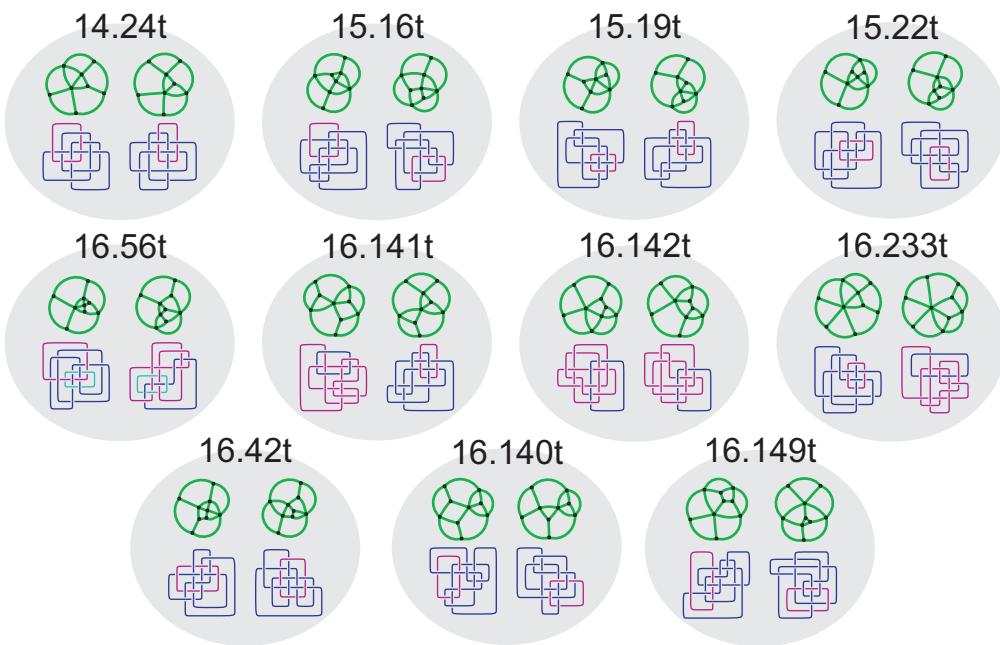


Figure 5.12 Doubts on simple 3-connected all green blinks

Is any of these a non-trivial pair or all of them induce different spaces modulo orientation that the HGnQI could not capture? We leave this question open.

¹To generate the simple 3-connected maps we started from the wheel maps (maps that are a polygons with its vertices connected to a central vertex) and then, inductively, we subdivided the faces and vertices in all possible ways preserving the 3-connectivity property.

CHAPTER 6

Conclusions and future work

6.1 Results, uncertainties and the need of new invariants

BLINK CALCULUS

The first contribution of this thesis that we want to stress here was given in Section 3.2. Based on the BFL calculus (*i.e.* Kirby’s calculus reformulated in BFL language) we obtained a purely blink calculus. This calculus is a formal language which is a counterpart for homeomorphism of spaces. Figure 6.1 presents again our blink calculus. Although theoretically complete (it is supported by Kirby’s Calculus) this calculus was not used in our computational experiments as a tool to prove homeomorphisms. For this task we used the combinatorial simplification dynamics of 3-gems. In spite of that, we think that the blink calculus can help in the search for new space invariants.

DECOMPOSITION/COMPOSITION THEORY

A second contribution of this work that was important to the computational results are the following propositions and theorems in g-link language:

(Theorem on partial dual 3.8.1) *Let A and B be arbitrary disjoint g-blanks, (a,b) a basepair on them. Then $A[a] + B[b] \xrightarrow{S} A[a] + \text{DUAL}(B)[b]$.*

(Theorem on partial reflection 3.8.2) *Let A and B be arbitrary disjoint g-blanks, (a,b) a basepair on them. Then $(A[a] + B[b]) \xrightarrow{S} A[a] + \text{REFLECTION}(B)[b]$.*

(Theorem on partial refDual 3.8.3) *Let A and B be arbitrary disjoint g-blanks, (a,b) a basepair on them. Then $A[a] + B[b] \xrightarrow{S} A[a] + \text{REFDUAL}(B)[b]$.*

The third theorem on partial refDials is obtained directly from the framed link theory.

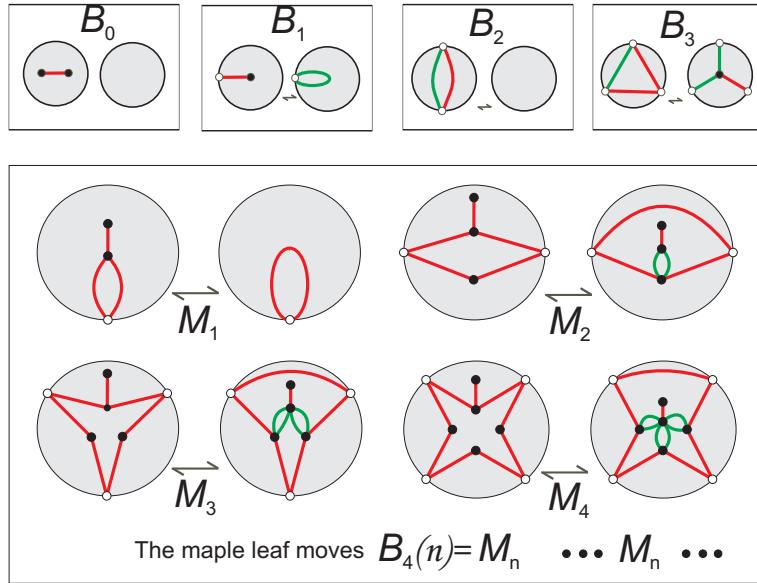


Figure 6.1 Blink formal calculus by local coins replacements

Given this third theorem, the first two theorems are equivalent: given one we have the other. The theorem on partial reflection was tricky to obtain. We used both the theory of gems and the BLINK2GEM algorithm as well as topological machinery to exhibit an explicit homeomorphism. Section 4.5 contains this proof. These theorems yield a block decomposition/composition theory which leads to the representative concept and curtailed search spaces of our computational experiments.

AN UNAVOIDABLE SET OF BLINKS UP TO 9 EDGES

We achieved our initial main objective which was to classify spaces presentable by blinks with small number n of edges. At the level of $n \leq 9$ the combination of tools

- theory of decomposition/composition leading to representative g-blanks — which reduces the search space
- quantum invariants and homology — which provide distinctiveness
- combinatorial simplification dynamics of 3-gem theory — which provides similarity

was as effective as leaving only two uncertainties in more than 500 spaces. These uncertainties, as we saw in Section 5.3, were registered as Conjecture 5.3.1 and Conjecture 5.3.2. To be

honest, these conjectures are actually doubts and seem an interesting research problem. It could be answered by a new invariant which complements the HGnQI invariant. In any case (*i.e.* the two conjectures are false, or one is true and the other is false, or both are true) the relevant fact is that any space that has a blink presentation with up to 9 edges is induced by only one of the classes in Appendix A, where classes 9.126 and 9.199 may be broken into two classes each. A space that is not prime and has a blink presentation with ≤ 9 edges is just a blink with more than one prime component which is in the catalogue (Section 5.1).

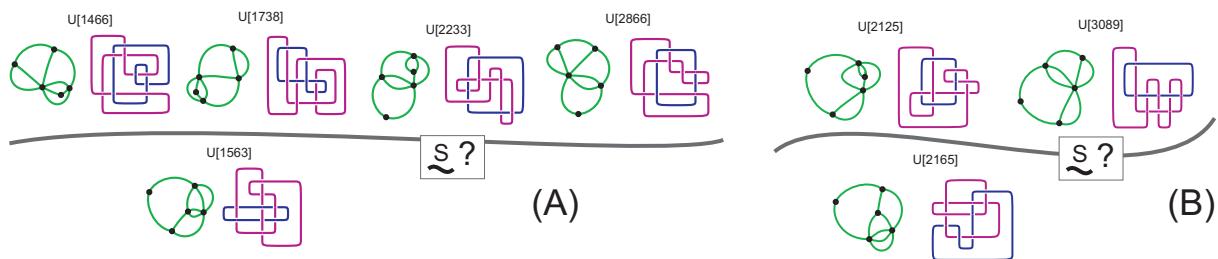


Figure 6.2 The only 2 classes with same HGnQI where a proof of the homeomorphism was not found

In the case of simple 3-connected monochromatic blinks with up to 16 edges there are only the 11 uncertainties shown in Figure 6.3. We did not use the simplification combinatorial dynamics of 3-gems to deal with these cases.

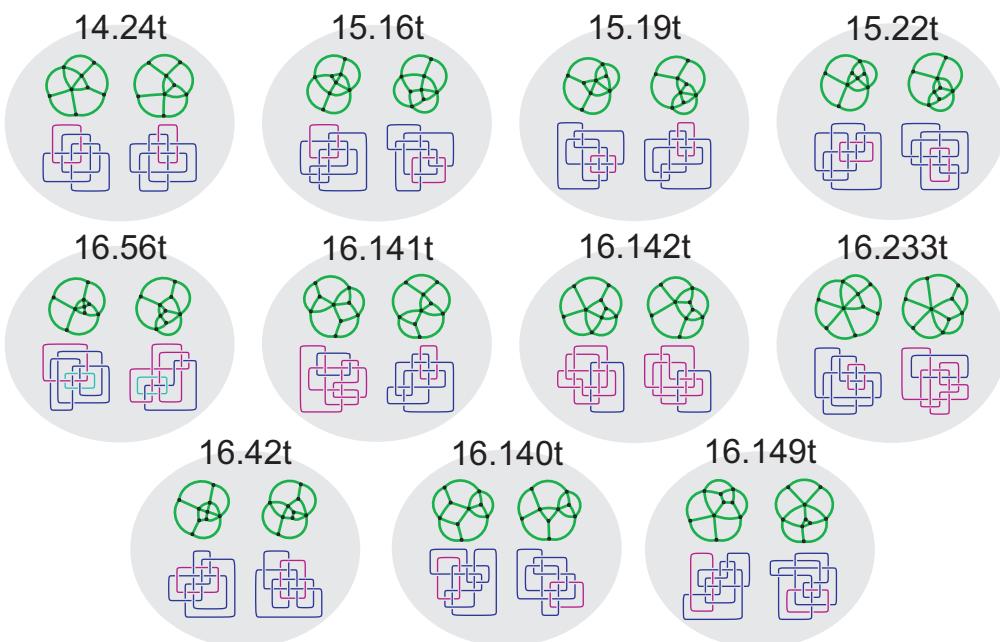
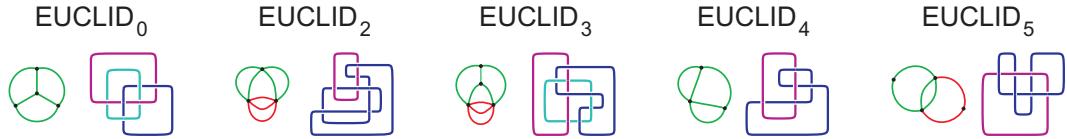


Figure 6.3 Doubts on simple 3-connected all green blinks

Putting together blinks that induce the same space in a non-trivial way (Appendix A, Appendix B and Appendix C) we hope to be contributing with non-trivial examples that can motivate and help the search for new effective subtle invariants of spaces to complement the HGnQI invariant.

6.2 The inverse algorithm: from gem to blink

A rather frustrating fact up to now is that we could not find a blink for the space EUCLID₁. This space is generated by the rigid gem r_5^{24} (notation of 3-gems catalog of [Lin95]). Blinks and BFLs for the other euclidean spaces are given below.



They correspond, respectively, to spaces 6.8, 7.10, 8.32, 5.4 and 6.13. By looking at quantum invariants of these spaces (see Appendix A) we are led to the following conjecture.

Conjecture 6.2.1. *The absolute value of the quantum invariants of the euclidean spaces are non-negative integers for all levels r .*

The missing EUCLID₁ space motivates the following discussion.

There exists a rather simple algorithm to go from a framed link inducing a space to a triangulation of the same space. This was first done in chapter 11 of [KL94] via *graph encoded 3-manifolds* or *gems*. This algorithm was improved here in Section 4.4 and it is a central tool in the BLINK program to prove spaces in U are homeomorphic. Figure 6.4 shows this algorithm. Thus to get a gem from a blackboard framed link is a direct task.

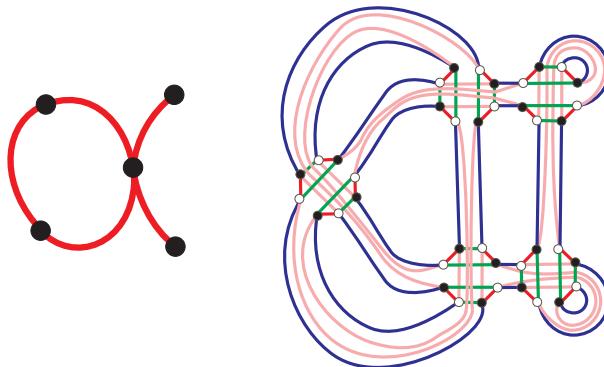


Figure 6.4 Blink to gem algorithm: indispensable to prove homeomorphisms of blinks

However, the contrary, given a gem to find by a polynomial algorithm a blackboard framed link inducing the same 3D-space is, as far as we know, an untouched problem in the literature.

Figure 6.5 shows this computational gap as a red arrow. The reason why it is desirable to have this arrow in black stems from the fact that the quantum invariants are not computable from a triangulation or gem based presentation of 3D-spaces. The two languages, triangulations and blackboard framed links have at present only a one way translation.

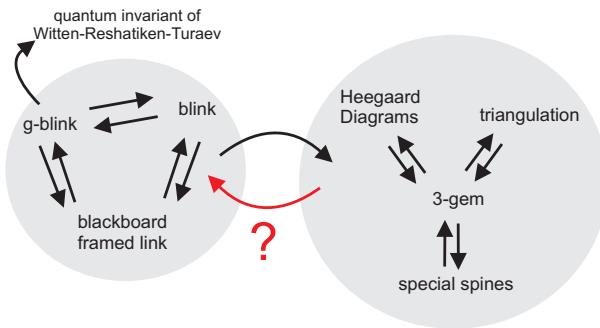


Figure 6.5 Blink based presentation and 3-Gem based presentation

Trying to get this converse algorithm took a long a time of our research for this thesis. Only recently we got confident that we have succeeded. A first step in this direction was given in the paper [Lin07], where a linear algorithm to prove the Lickorish-Wallace Theorem is provided. The second part, which actually presents the blink from the gem is a joint work with S. Lins [LL07] and awaits a proper computer implementation. The first test of this implementation will be to get a blink for EUCLID₁.

6.3 The BLINK computer program

A computer program to manipulate spaces through its many possible presentations was one of our goals in this work. Indeed, a great effort was made to bring BLINK to life: a program written in Java that, at this moment, has more than 800 hundred classes and more than 70000 lines of code. Today, BLINK supports blinks, g-blink, BFLs and 3-gems. The idea is, in the future, to bring other possible space presentations, like special spines, into it.

To make BLINK a flexible program we decided that its interface would be a *Command Line Interface*. It displays a prompt and the user enters a command or a script written in a *language*

that we also name BLINK. Once a command or script has been entered, the program calculates the script result and shows it to the user. The flexibility we get in this type of design is good; for example we can combine functions and easily express more complex functions.

Besides the calculation of invariants, the identification of certain structures into 3-gems (e.g. disconnecting quartets, dipoles) or into g-blanks (e.g. simplification points) one of the main characteristics of BLINK is its capability of presenting drawings or diagrams for blinks, g-blank, BFLs and 3-gems. Almost all drawings on this thesis came from BLINK. To get good looking and correct drawings for blinks, g-blanks and BFLs took us a long time once we didn't know a good way of doing it. But finally we found a great solution: *Tamassia's Algorithm* [Tam87].

We have implemented the following four algorithms to deal with the drawing issue. Except for the first algorithm, the other three are further fine-tuned with *Bézier curves and splines techniques* ([FvDFH90]) to produce rounded-drawings with curved edges.

1. *Coin-drawing Algorithm*: this was our own first original algorithm which we implemented to correctly draw in a visible scale the whole of any plane graph. The drawing is in the interior of a disk named a *coin*. The coin-drawing algorithm chooses and draw a spanning tree of the graph with appropriate lengths and angles. These ensure that the remaining edges can be displayed as a path which is a line segment, an arc of circle and another line segment. This is the simplest algorithm producing the less pleasing aesthetical effect. Nevertheless, these *coin-drawings* are important because they were, for a long time in our work, the only general method with total visibility. Figure 6.6 presents an example of our coin drawing algorithm.

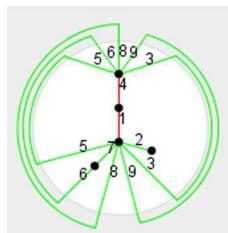


Figure 6.6 Coin drawing of $U[1078]$

2. *Tutte's Barycentric Algorithm [Tut67]*: we have implemented this well known algorithm that draws a 3-connected plane graph by choosing the external face and extending the drawing so that every interior vertex is in the barycenter of its neighbors. Frequently, it produces pleasant drawings. However it does not treat the less connected graphs which are central for our work: loops, pendant vertices and cut-vertices are of fundamental importance in blink theory. Another problem that occurs with Tutte's based algorithm is the one of discrepant scales: some parts of the drawing are exponentially smaller than others, and simply disappear from the drawings. Despite of these disadvantages, Tutte's algorithm works well for the majority of blinks in the set U .
3. *Koebe, Andreev and Thurston's Theorem on circle packing in the hyperbolic plane*: beautiful drawings of plane graphs are possible to obtain from the geometry of the hyperbolic plane. Given a 3-connected plane graph, there exist circles centered at the vertices of the graph so that the edges are defined by the contact points of two circles. See the articles of Smith [Smi94], Stephenson [Ste03] or Collins and Stephenson [CS03] where algorithms are outlined for the case of triangulations. The Theorem yielding the circle packing was proved independently by Koebe [Koe36], Andreev [And70] and by Thurston [Thu82]. We have implemented our own version of the algorithm which works in the case of 3-connected graphs. However, it suffers the same disadvantages as Tutte's Algorithm. Nevertheless, when it works it produces the nicest results. Figure 6.7 presents a blink, its BFL, the circle packing that defined the first two drawings, and the first three drawings together.

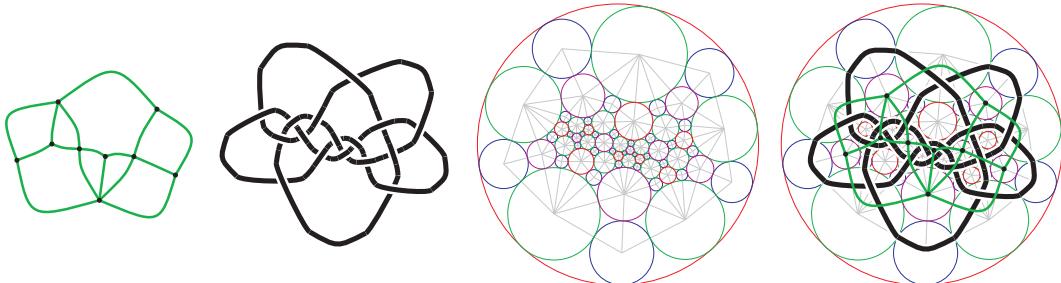


Figure 6.7 Circle packing of a 3-connected blink

4. *Tamassia's Algorithm [Tam87]*: to embed an arbitrary plane graph with valency at most

4 in the rectilinear grid so as to minimize the number of bends. This algorithm came to our attention only at latter phase of our research. Fine-tunings of it has all the properties we needed: it correctly draws any plane graph and it does not suffer from the undesirable phenomenon of discrepant scales: all the vertices and the edges are entirely well visible. The objective of the method is to minimize (in a precisely defined mathematical way) the number of bends. The algorithm depends three times on the algorithm to compute a minimum cost-flow in a network. The essence of this algorithm is in the design of the first network. Each feasible flow in this network encodes valid “shapes” for the edges of the graph. This encoding tells, for example, that an edge has no bends or that it has one bend to the right then one bend to the left. When a minimum flow is found in this network the minimum number of bends for a valid rectilinear embedding of the given graph is found. The other two networks are used to find the lengths of the horizontal and vertical segments of the edges. In order to have Tamassia’s algorithm available, we had first to implement the minimum cost flow algorithm in its full generality via the network simplex method. We have based our implementation on the lucid exposition Chapter 19 of [Chv83] and in the (editor’s categorization) “Exceptional Paper” [GHBG77], which is the original source of the network simplex method. Tamassia’s algorithm is an unexpected application of network flow theory in its full strength. Since its publication in 1987, it has become a theoretically beautiful at the same time a practical device used on dozens of applications. Having implemented it from scratch, we had the opportunity of tailoring it to fulfill our expectations on drawing of general plane graphs. In particular, the restriction about the maximum degree 4 is easy to overcome. Finally, the use of Bézier curves and splines ([FvDFH90]) makes the drawings more pleasing aesthetically, with smaller perceptual complexity. All drawings in the Appendices are based in this algorithm.

We want to make BLINK an open source project on the internet but this wasn’t done yet.

AN EXAMPLE OF BLINK USAGE

We finish this section with an example of the usage of BLINK. Here is the code:

```
// associates B to the g-blink with 4 parallel green edges: U[5]
B = gblink(5)
// all possible toroidal sums with B up to 24 edges
C = combineGBlinks({B},24)
// calculate representative
C = rep(C)
// remove duplicates
C = set(C)
// homology groups on all g-blink of C
HGs = hg(C)
// calculate quantum invariant on all g-blink of C up to level 4
QIs = qi(C,4)
// produces the blink drawings
db(C,cols=10,rows=4,eps="blinks.eps")
// produces the link drawings
dl(C,cols=10,rows=4,eps="links.eps")
```

The BFL presentation of $U[5]$ is the first in U to have two components. It is a blink with four parallel green edges. By merging $U[5]$ with itself in all possible ways we obtain 38 representative blinks with ≤ 24 edges. These 38 blinks and their associated BFLs are shown in Figure 6.8. We calculated homology group and the quantum invariant up to level 4 of these 38 blinks. We could distinguish 24 spaces. The blinks we cannot distinguish with this experiment are: $\{9, 12\}$, $\{10, 13\}$, $\{16, 27, 36\}$, $\{17, 19, 25, 28\}$, $\{18, 21, 26, 29, 31\}$, $\{20, 24\}$, $\{23, 30\}$, $\{32, 34\}$.

#	HG	r=3	r=4	#	HG	r=3	r=4
01	2^2	$1.41421 + 0.00000i$	$1.50000 - 0.50000i$	20	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 14.00000i$
02	$(1)2^2$	$2.00000 + 0.00000i$	$2.00000 - 1.00000i$	21	$(1)2^6$	$8.00000 + 0.00000i$	$10.00000 - 12.00000i$
03	2^4	$2.82842 + 0.00000i$	$3.00000 - 2.00000i$	22	$(1)2^6$	$8.00000 + 0.00000i$	$6.00000 - 12.00000i$
04	$(2)2^2$	$2.82842 + 0.00000i$	$3.00000 - 1.00000i$	23	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 10.00000i$
05	$(1)2^4$	$4.00000 + 0.00000i$	$5.00000 - 3.00000i$	24	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 14.00000i$
06	$(1)2^4$	$4.00000 + 0.00000i$	$4.00000 - 4.00000i$	25	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 12.00000i$
07	$(3)2^2$	$4.00000 + 0.00000i$	$6.00000 + 0.00000i$	26	$(1)2^6$	$8.00000 + 0.00000i$	$10.00000 - 12.00000i$
08	$(2)2^4$	$5.65685 + 0.00000i$	$8.00000 - 6.00000i$	27	$(1)2^6$	$8.00000 + 0.00000i$	$14.00000 - 12.00000i$
09	2^6	$5.65685 + 0.00000i$	$7.00000 - 7.00000i$	28	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 12.00000i$
10	$(2)2^4$	$5.65685 + 0.00000i$	$6.00000 - 6.00000i$	29	$(1)2^6$	$8.00000 + 0.00000i$	$10.00000 - 12.00000i$
11	2^6	$5.65685 + 0.00000i$	$5.00000 - 7.00000i$	30	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 10.00000i$
12	2^6	$5.65685 + 0.00000i$	$7.00000 - 7.00000i$	31	$(1)2^6$	$8.00000 + 0.00000i$	$10.00000 - 12.00000i$
13	$(2)2^4$	$5.65685 + 0.00000i$	$6.00000 - 6.00000i$	32	$(3)2^4$	$8.00000 + 0.00000i$	$14.00000 - 10.00000i$
14	$(2)2^4$	$5.65685 + 0.00000i$	$10.00000 - 4.00000i$	33	$(3)2^4$	$8.00000 + 0.00000i$	$12.00000 - 8.00000i$
15	$(4)2^2$	$5.65685 + 0.00000i$	$14.00000 + 2.00000i$	34	$(3)2^4$	$8.00000 + 0.00000i$	$14.00000 - 10.00000i$
16	$(1)2^6$	$8.00000 + 0.00000i$	$14.00000 - 12.00000i$	35	$(3)2^4$	$8.00000 + 0.00000i$	$8.00000 - 8.00000i$
17	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 12.00000i$	36	$(1)2^6$	$8.00000 + 0.00000i$	$14.00000 - 12.00000i$
18	$(1)2^6$	$8.00000 + 0.00000i$	$10.00000 - 12.00000i$	37	$(3)2^4$	$8.00000 + 0.00000i$	$22.00000 - 6.00000i$
19	$(1)2^6$	$8.00000 + 0.00000i$	$8.00000 - 12.00000i$	38	$(5)2^2$	$8.00000 + 0.00000i$	$32.00000 + 4.00000i$

Observe the curious fact that, except for the first blink, the quantum invariants at level $r = 4$ are Gauss integers (*i.e.* $a + bi$ with a, b integers). This type of experiment is very easy to do with BLINK.

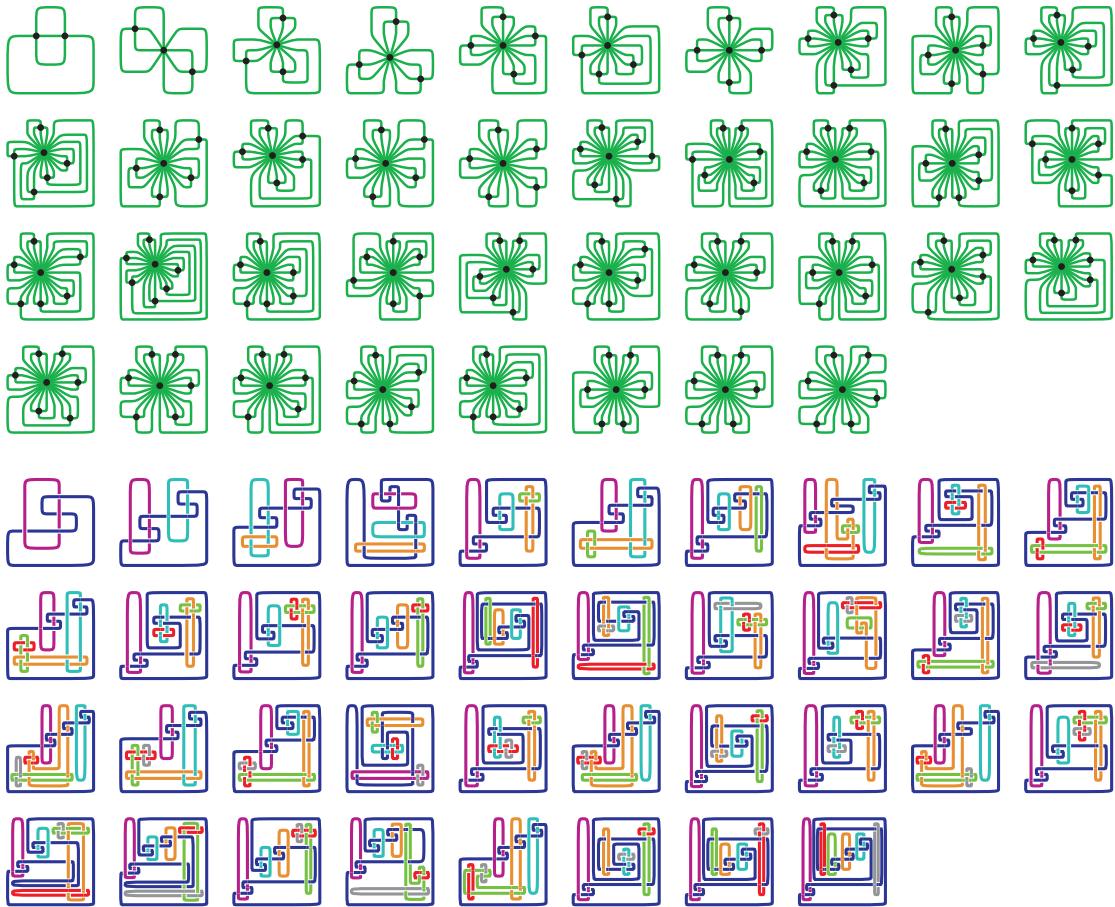


Figure 6.8 Toroidal sums or g-link merges up to six copies of the quaternionic space

6.4 Two final remarks

First. Recently we have extended the U set to blinks with up to 10 edges. The number of blinks was increased from 3437 to 17948. The number of potentially prime classes increased from 487 to 1025. The number of composite classes increased from 14 to 40. We did not attempt the topological classification of the classes 10._ using 3-gems.

Second. We have a contract with World Scientific Publisher to write a book to be co-authored by S. Lins based on the material of this thesis. The tentative title of this book: *All Shapes of Spaces: a Genealogy of Closed Oriented 3-Manifolds* and it should be finished by the year 2008.

APPENDIX A

The 487 potentially prime spaces in U

We here present the 487 spaces that are “potentially prime” once we could not prove them composite in our tests. One thing is certain, as stated in Theorem 5.3.3: any prime space that can be presented as a blink with ≤ 9 edges induces the same space (modulo orientation) as one and only one of these 487 spaces. Actually there are two points where this last statement may fail: space 9.126 and space 9.199 (although they have the same HGnQI we could not find a proof of homeomorphism between g-link $U[1563]$ and the other g-links in 9.126 and g-link $U[2165]$ and the others in 9.199). All 3437 g-blanks in U appears in this Appendix or in Appendix B.

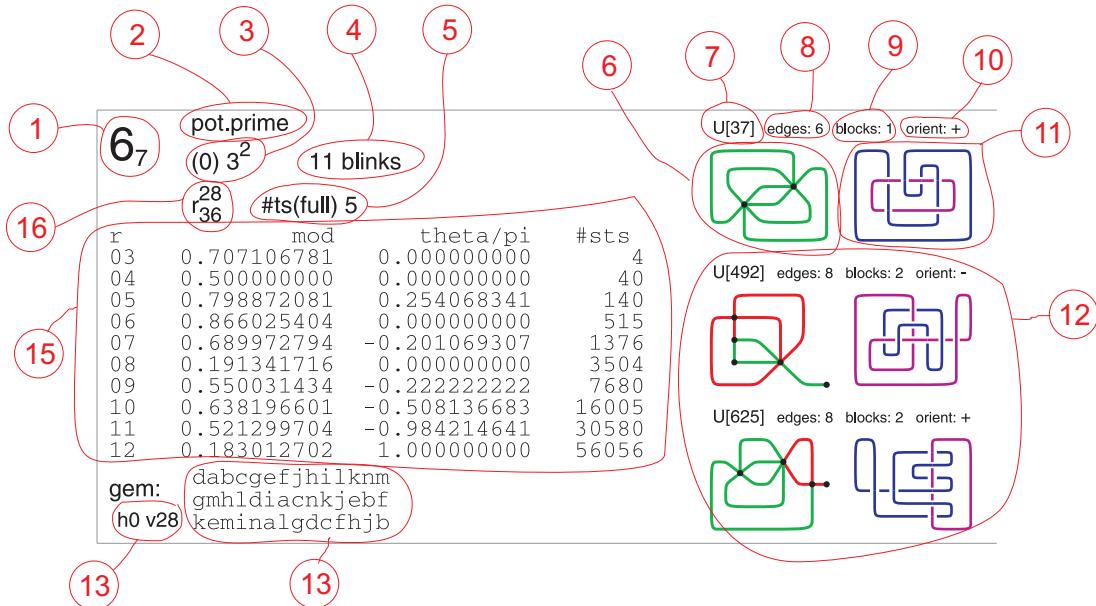
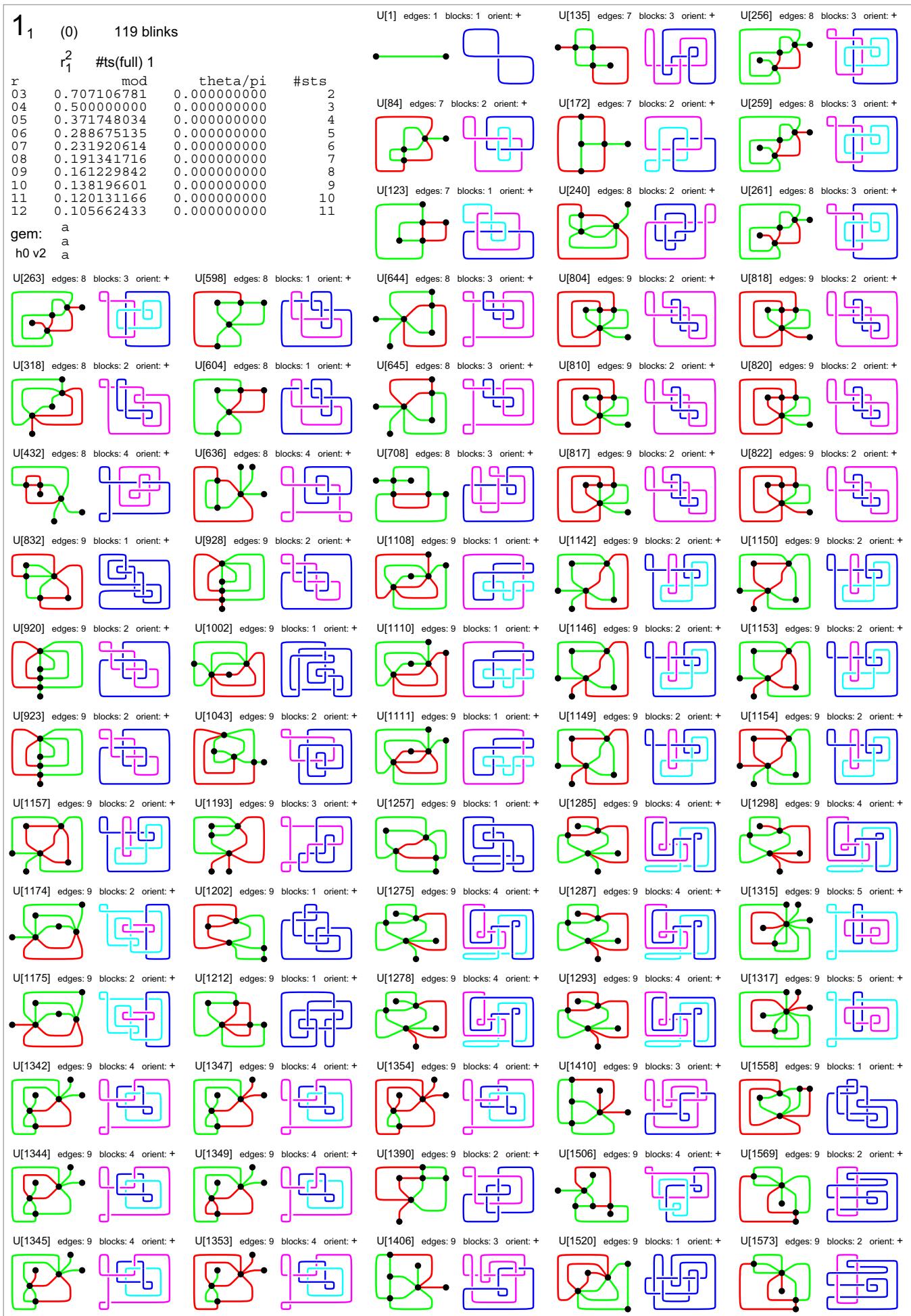


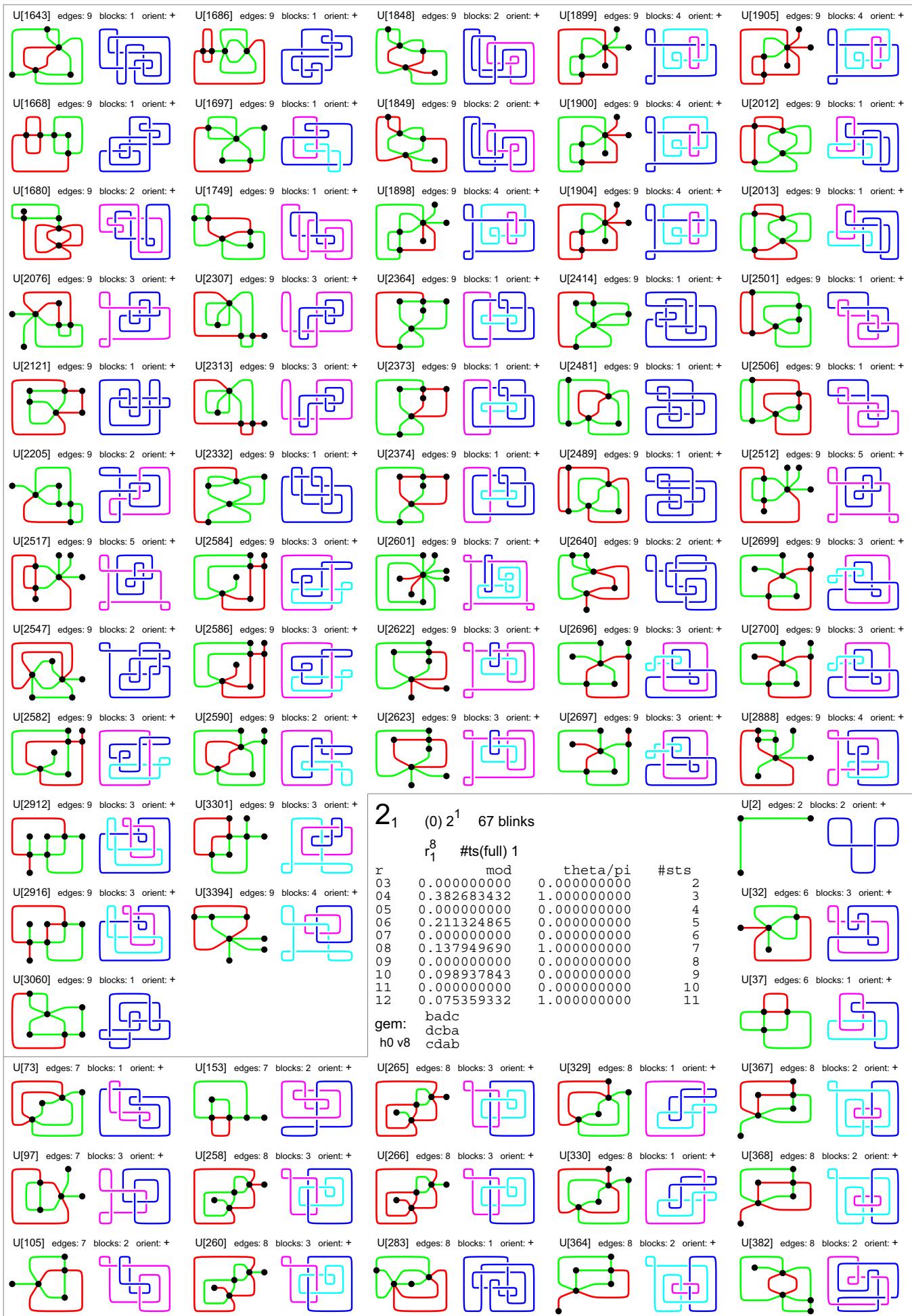
Figure A.1 Elements of catalogue

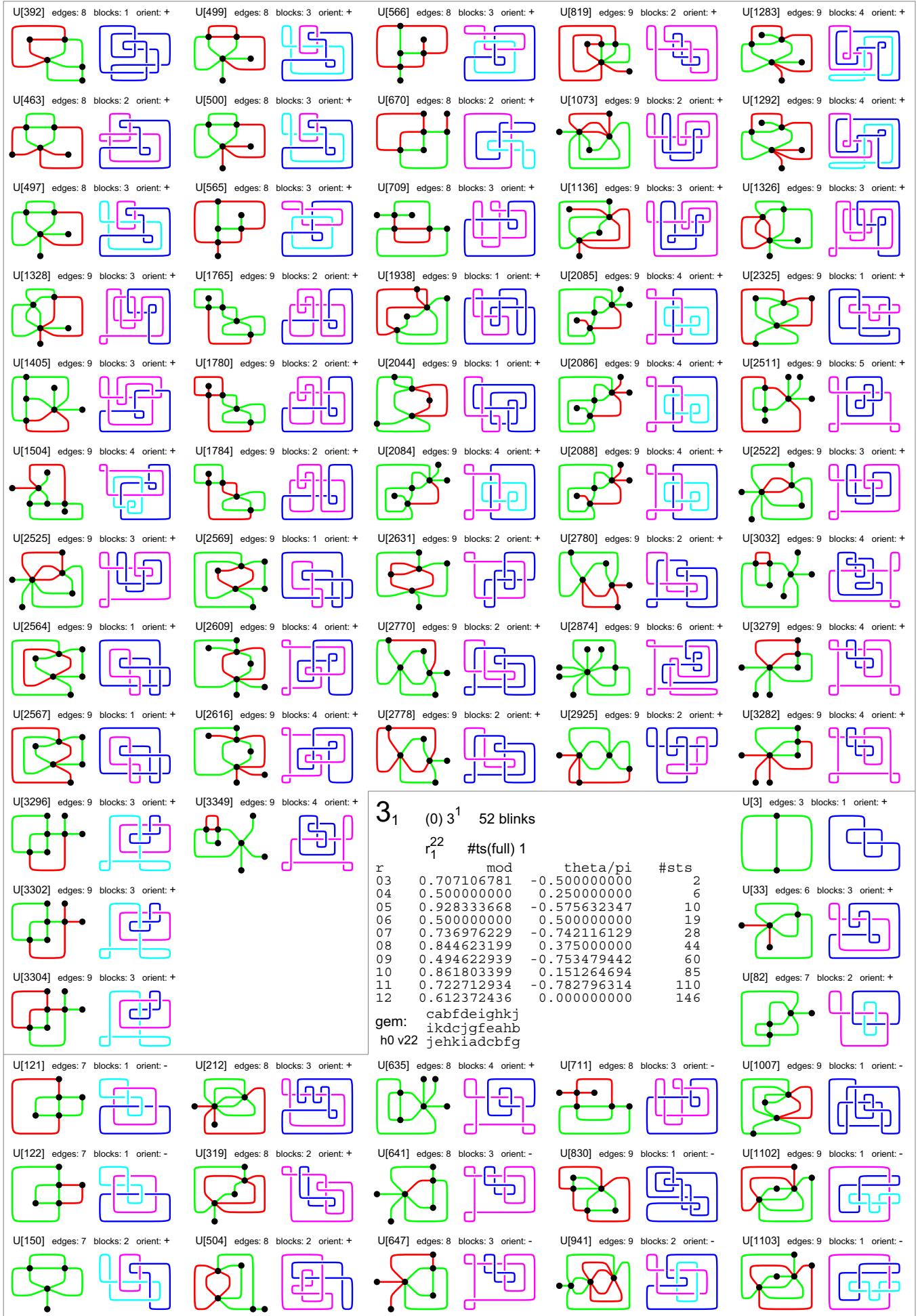
The elements of this catalogue are: (1) the space name: 6_7 is a synonym for 6.7; (2) the primality test outcome; (3) the homology group; (4) the number of g-blanks in U that induces this space; (5) number of 3-gems identified in the same ts-class of the minimum 3-gem found

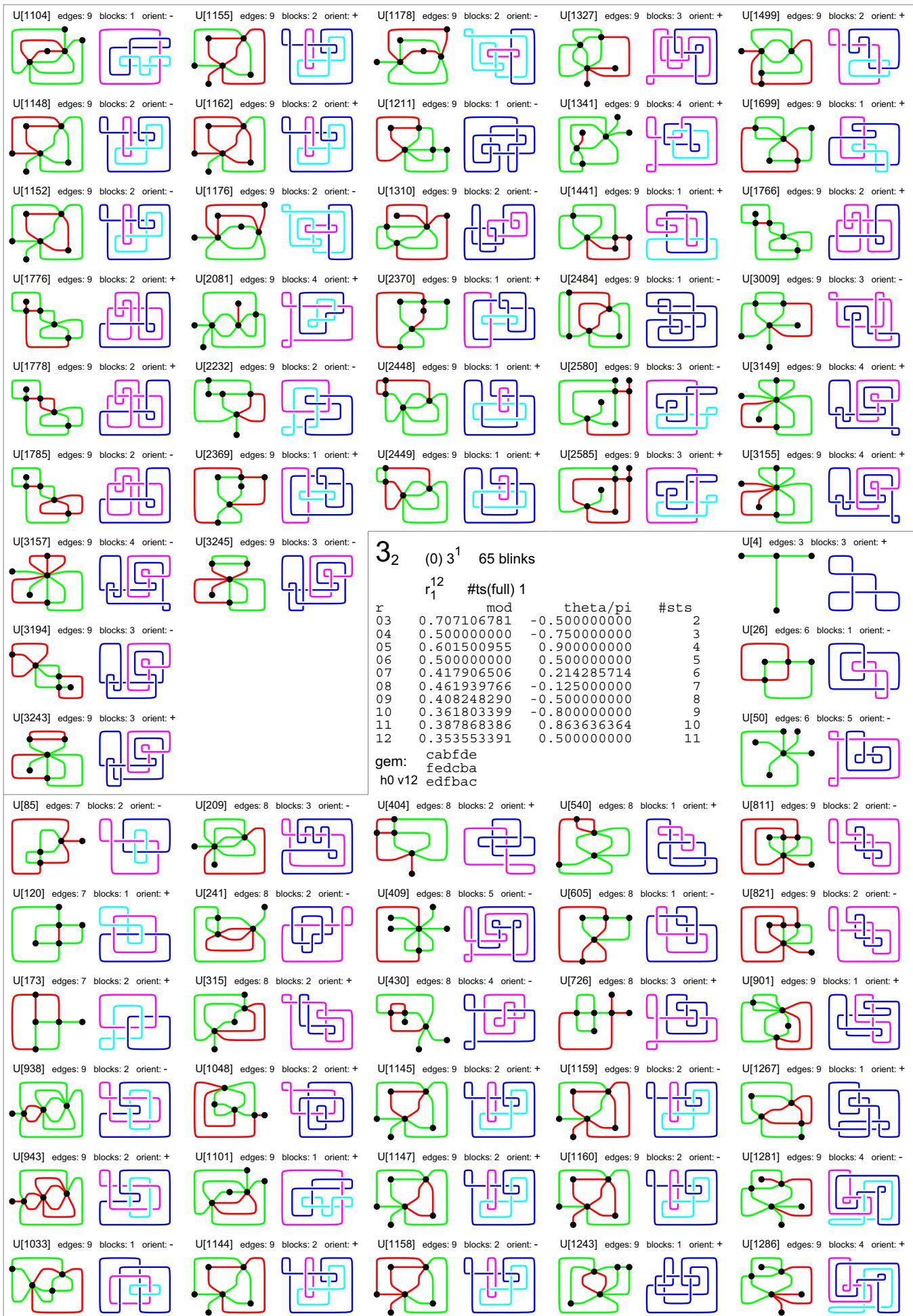
for this space: *full* means that all ts-class was identified, *partial* means that we do not know if all ts-class was identified; (6) the minimum blink presentation for this space in set U and also a minimal presentation for this space (this is always true, except for class 6.5 that should be 0.1); (7) the name of the g-blink in U ; (8) its number of edges; (9) its number of blocks in the blink presentation (2-connected components); (10) its orientation compared to the orientation of the QI shown: + sign means the same and - sign means different; (11) the corresponding BFL presentation; (12) other g-blanks in the same space; (13) the code of the minimal 3-gem found for this space the code convention is defined in [Lin95]; (14) the number of handles (composition with $\mathbb{S}^2 \times \mathbb{S}^1$ and the number of vertices of this 3-gem); (15) the quantum invariant of this space in polar form where the angle is divided by π ; (16) the name of this minimal 3-gem in the catalogue of [Lin95] when it is present in this catalogue.

The spaces that have integral quantum invariants up to level 12 are: 6.5 ($\mathbb{S}^2 \times \mathbb{S}^1$), 6.8, 6.18 and 8.32. The spaces that have real but not integral quantum invariant up to level 12 are 1.1, 2.1, 4.4, 6.14, 6.19, 8.58, 8.70, 8.75, 8.76, 8.81, 8.86, 8.87, 8.89, 8.100, 8.102, 8.103, 8.117, 9.23, 9.183. The remaining classes have entries with non-zero imaginary part (*i.e.* $\theta/\pi \notin \{0, 1\}$).









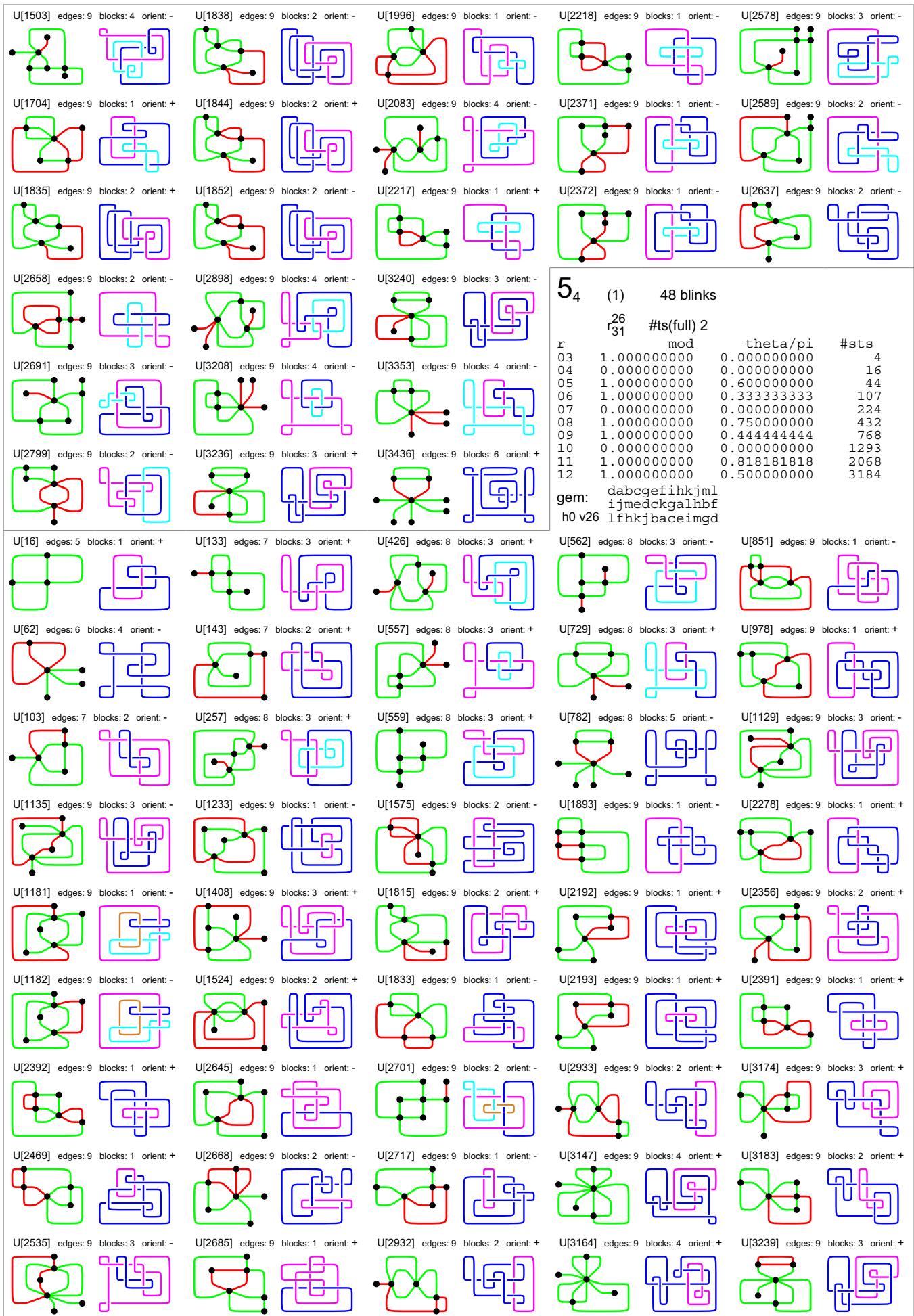
U[1296] edges: 9 blocks: 4 orient: -	U[1351] edges: 9 blocks: 4 orient: +	U[1554] edges: 9 blocks: 1 orient: +	U[1839] edges: 9 blocks: 2 orient: -	U[1902] edges: 9 blocks: 4 orient: -																																												
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U[3303] edges: 9 blocks: 3 orient: +	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding-right: 20px;">r</th> <th style="text-align: left; padding-right: 20px;">mod</th> <th style="text-align: left; padding-right: 20px;">theta/pi</th> <th style="text-align: left;">#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.414213562</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>1.581138830</td><td>-0.102416382</td><td>16</td></tr> <tr><td>05</td><td>1.597744161</td><td>-0.254068341</td><td>44</td></tr> <tr><td>06</td><td>1.527525232</td><td>-0.439481141</td><td>107</td></tr> <tr><td>07</td><td>1.429200068</td><td>-0.653089436</td><td>224</td></tr> <tr><td>08</td><td>1.354911967</td><td>-0.889255678</td><td>432</td></tr> <tr><td>09</td><td>1.334545109</td><td>0.862553511</td><td>768</td></tr> <tr><td>10</td><td>1.363216495</td><td>0.614494597</td><td>1293</td></tr> <tr><td>11</td><td>1.411622354</td><td>0.372937200</td><td>2068</td></tr> <tr><td>12</td><td>1.449580121</td><td>0.137205455</td><td>3184</td></tr> </tbody> </table>				r	mod	theta/pi	#sts	03	1.414213562	0.000000000	4	04	1.581138830	-0.102416382	16	05	1.597744161	-0.254068341	44	06	1.527525232	-0.439481141	107	07	1.429200068	-0.653089436	224	08	1.354911967	-0.889255678	432	09	1.334545109	0.862553511	768	10	1.363216495	0.614494597	1293	11	1.411622354	0.372937200	2068	12	1.449580121	0.137205455	3184
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05 0.000000000	0.000000000	10		
06 0.912870929	0.602416382	19		
07 0.000000000	0.000000000	28		
08 0.919603642	-0.390497222	44		
09 0.000000000	0.000000000	60		
10 0.932508312	0.580136286	85		
11 0.000000000	0.000000000	110		
12 0.947247195	-0.466656034	146		
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r_2^{16} #ts(full) 2																																																
<table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.250000000</td><td>2</td></tr> <tr><td>04</td><td>0.707106781</td><td>-0.375000000</td><td>3</td></tr> <tr><td>05</td><td>0.525731112</td><td>-0.350000000</td><td>4</td></tr> <tr><td>06</td><td>0.577350269</td><td>-0.333333333</td><td>5</td></tr> <tr><td>07</td><td>0.591009048</td><td>-0.392857143</td><td>6</td></tr> <tr><td>08</td><td>0.500000000</td><td>-0.437500000</td><td>7</td></tr> <tr><td>09</td><td>0.428525073</td><td>-0.416666667</td><td>8</td></tr> <tr><td>10</td><td>0.447213595</td><td>-0.400000000</td><td>9</td></tr> <tr><td>11</td><td>0.455734141</td><td>-0.431818182</td><td>10</td></tr> <tr><td>12</td><td>0.408248290</td><td>-0.458333333</td><td>11</td></tr> </tbody> </table>	r	mod	theta/pi	#sts	03	1.000000000	-0.250000000	2	04	0.707106781	-0.375000000	3	05	0.525731112	-0.350000000	4	06	0.577350269	-0.333333333	5	07	0.591009048	-0.392857143	6	08	0.500000000	-0.437500000	7	09	0.428525073	-0.416666667	8	10	0.447213595	-0.400000000	9	11	0.455734141	-0.431818182	10	12	0.408248290	-0.458333333	11				
r	mod	theta/pi	#sts																																													
03	1.000000000	-0.250000000	2																																													
04	0.707106781	-0.375000000	3																																													
05	0.525731112	-0.350000000	4																																													
06	0.577350269	-0.333333333	5																																													
07	0.591009048	-0.392857143	6																																													
08	0.500000000	-0.437500000	7																																													
09	0.428525073	-0.416666667	8																																													
10	0.447213595	-0.400000000	9																																													
11	0.455734141	-0.431818182	10																																													
12	0.408248290	-0.458333333	11																																													
gem: cabfdehg hedcbgfa gfeahbdc																																																
U[104] edges: 7 blocks: 2 orient: +	U[250] edges: 8 blocks: 1 orient: -	U[338] edges: 8 blocks: 6 orient: +	U[558] edges: 8 blocks: 3 orient: -	U[694] edges: 8 blocks: 5 orient: -																																												
U[108] edges: 7 blocks: 2 orient: -	U[262] edges: 8 blocks: 3 orient: -	U[361] edges: 8 blocks: 2 orient: +	U[564] edges: 8 blocks: 3 orient: +	U[707] edges: 8 blocks: 3 orient: -																																												
U[181] edges: 7 blocks: 2 orient: +	U[264] edges: 8 blocks: 3 orient: +	U[427] edges: 8 blocks: 3 orient: -	U[578] edges: 8 blocks: 1 orient: +	U[748] edges: 8 blocks: 3 orient: +																																												

U[947] edges: 9 blocks: 1 orient: +	U[1062] edges: 9 blocks: 2 orient: +	U[1185] edges: 9 blocks: 1 orient: +	U[1188] edges: 9 blocks: 1 orient: +	U[1389] edges: 9 blocks: 2 orient: +
U[966] edges: 9 blocks: 2 orient: -	U[1088] edges: 9 blocks: 2 orient: -	U[1186] edges: 9 blocks: 1 orient: +	U[1311] edges: 9 blocks: 2 orient: -	U[1392] edges: 9 blocks: 2 orient: +
U[968] edges: 9 blocks: 2 orient: -	U[1134] edges: 9 blocks: 3 orient: +	U[1187] edges: 9 blocks: 1 orient: +	U[1386] edges: 9 blocks: 2 orient: +	U[1577] edges: 9 blocks: 2 orient: +
U[1596] edges: 9 blocks: 2 orient: +	U[1820] edges: 9 blocks: 2 orient: -	U[2007] edges: 9 blocks: 2 orient: -	U[2042] edges: 9 blocks: 1 orient: +	U[2470] edges: 9 blocks: 1 orient: -
U[1601] edges: 9 blocks: 2 orient: +	U[1936] edges: 9 blocks: 1 orient: +	U[2020] edges: 9 blocks: 3 orient: -	U[2112] edges: 9 blocks: 1 orient: +	U[2472] edges: 9 blocks: 1 orient: -
U[1799] edges: 9 blocks: 1 orient: -	U[1962] edges: 9 blocks: 1 orient: -	U[2040] edges: 9 blocks: 1 orient: +	U[2355] edges: 9 blocks: 2 orient: -	U[2531] edges: 9 blocks: 3 orient: +
U[2571] edges: 9 blocks: 1 orient: +	U[2618] edges: 9 blocks: 4 orient: -	U[2714] edges: 9 blocks: 1 orient: +	U[2993] edges: 9 blocks: 1 orient: -	
U[2599] edges: 9 blocks: 7 orient: -	U[2664] edges: 9 blocks: 2 orient: -	U[2819] edges: 9 blocks: 1 orient: +		
U[2612] edges: 9 blocks: 4 orient: +	U[2713] edges: 9 blocks: 1 orient: +	U[2992] edges: 9 blocks: 1 orient: -		
51 (0) 5^1 18 blinks				
r^{32} #ts(full) 8				
mod	theta/pi	#sts		
03 0.707106781	0.000000000	2		
04 0.500000000	-0.500000000	18		
05 0.000000000	0.000000000	34		
06 0.288675135	1.000000000	115		
07 1.032991532	0.728089655	196		
08 0.844623199	0.250000000	452		
09 0.562464454	-0.253479442	708		
10 0.000000000	0.000000000	1333		
11 0.438824819	-0.975425586	1958		
12 1.024616848	0.662268765	3254		
gem: dabcgefjhilklnmpo jmoedchgpnlblafk h0 v32 ejimpdkocbgnfhlha				
U[2010] edges: 9 blocks: 1 orient: +	U[2368] edges: 9 blocks: 1 orient: -	U[2731] edges: 9 blocks: 3 orient: +		
U[2213] edges: 9 blocks: 1 orient: -	U[2446] edges: 9 blocks: 1 orient: +	U[2742] edges: 9 blocks: 2 orient: -		
U[2340] edges: 9 blocks: 1 orient: +	U[2447] edges: 9 blocks: 1 orient: +	U[3070] edges: 9 blocks: 1 orient: +		

5₂	(0) 5 ¹ 23 blinks		U[14] edges: 5 blocks: 1 orient: +	U[164] edges: 7 blocks: 1 orient: +	U[639] edges: 8 blocks: 3 orient: +
r?	#ts(full) 157	mod theta/pi #sts			
03	0.707106781	0.000000000 2			
04	0.500000000	-0.500000000 10			
05	0.437016024	-0.300000000 18			
06	0.288675135	1.000000000 45			
07	0.634884924	-0.622092998 72			
08	0.079256334	0.250000000 136			
09	0.622390501	0.879092792 200			
10	0.190983006	0.600000000 325			
11	0.747476909	0.576933520 450			
12	0.198687476	0.872714795 666			
gem:	cabfddeigh1jknmpo ipncjgfelhmaodkb h0 v32	pnikgbedoahmlfcj			
U[1098]	edges: 9	blocks: 1 orient: +			
U[1099]	edges: 9	blocks: 1 orient: +			
U[1100]	edges: 9	blocks: 1 orient: +			
U[1109]	edges: 9	blocks: 1 orient: +			
U[1110]	edges: 9	blocks: 1 orient: +			
U[1111]	edges: 9	blocks: 1 orient: +			
U[1112]	edges: 9	blocks: 1 orient: +			
U[1113]	edges: 9	blocks: 1 orient: +			
U[1114]	edges: 9	blocks: 1 orient: +			
U[1115]	edges: 9	blocks: 1 orient: +			
U[1116]	edges: 9	blocks: 1 orient: +			
5₃	(0) 63 blinks		U[15] edges: 5 blocks: 1 orient: +	U[119] edges: 7 blocks: 1 orient: -	U[313] edges: 8 blocks: 2 orient: +
r?	#ts(full) 6	mod theta/pi #sts			
03	0.707106781	0.000000000 2			
04	0.500000000	1.000000000 10			
05	0.798872080	-0.854683431 18			
06	0.288675135	0.000000000 45			
07	0.939027395	0.285714286 72			
08	0.191341716	0.500000000 136			
09	0.883936202	-0.464314927 200			
10	0.638196601	-0.291863317 325			
11	0.546676688	0.732882109 450			
12	0.809630852	0.927420481 666			
gem:	dabcgefjhilknmn jlmedchgnaiabfk h0 v28	nfiikmjjaecbdhlhg			
U[503]	edges: 8	blocks: 2 orient: -			
U[544]	edges: 8	blocks: 3 orient: -			
U[553]	edges: 8	blocks: 3 orient: -			
U[1109]	edges: 9	blocks: 1 orient: +			
U[1110]	edges: 9	blocks: 1 orient: +			
U[1111]	edges: 9	blocks: 2 orient: -			
U[1112]	edges: 9	blocks: 2 orient: -			
U[1113]	edges: 9	blocks: 2 orient: -			
U[1114]	edges: 9	blocks: 2 orient: -			
U[1115]	edges: 9	blocks: 2 orient: -			
U[1116]	edges: 9	blocks: 2 orient: -			
U[1117]	edges: 9	blocks: 2 orient: -			
U[1118]	edges: 9	blocks: 2 orient: -			
U[1119]	edges: 9	blocks: 1 orient: +			
U[1120]	edges: 9	blocks: 1 orient: +			
U[1121]	edges: 9	blocks: 2 orient: -			
U[1122]	edges: 9	blocks: 2 orient: -			
U[1123]	edges: 9	blocks: 2 orient: -			
U[1124]	edges: 9	blocks: 2 orient: -			
U[1125]	edges: 9	blocks: 2 orient: -			
U[1126]	edges: 9	blocks: 2 orient: -			
U[1127]	edges: 9	blocks: 2 orient: -			
U[1128]	edges: 9	blocks: 2 orient: -			
U[1129]	edges: 9	blocks: 2 orient: -			
U[1130]	edges: 9	blocks: 2 orient: -			
U[1131]	edges: 9	blocks: 2 orient: -			
U[1132]	edges: 9	blocks: 2 orient: -			
U[1133]	edges: 9	blocks: 2 orient: -			
U[1134]	edges: 9	blocks: 2 orient: -			
U[1135]	edges: 9	blocks: 2 orient: -			
U[1136]	edges: 9	blocks: 2 orient: -			
U[1137]	edges: 9	blocks: 2 orient: -			
U[1138]	edges: 9	blocks: 2 orient: -			
U[1139]	edges: 9	blocks: 2 orient: -			
U[1140]	edges: 9	blocks: 2 orient: -			
U[1141]	edges: 9	blocks: 2 orient: -			
U[1142]	edges: 9	blocks: 2 orient: -			
U[1143]	edges: 9	blocks: 2 orient: -			
U[1144]	edges: 9	blocks: 2 orient: -			
U[1145]	edges: 9	blocks: 2 orient: -			
U[1146]	edges: 9	blocks: 2 orient: -			
U[1147]	edges: 9	blocks: 2 orient: -			
U[1148]	edges: 9	blocks: 2 orient: -			
U[1149]	edges: 9	blocks: 2 orient: -			
U[1150]	edges: 9	blocks: 2 orient: -			
U[1151]	edges: 9	blocks: 2 orient: -			
U[1152]	edges: 9	blocks: 2 orient: -			
U[1153]	edges: 9	blocks: 2 orient: -			
U[1154]	edges: 9	blocks: 2 orient: -			
U[1155]	edges: 9	blocks: 2 orient: -			
U[1156]	edges: 9	blocks: 2 orient: -			
U[1157]	edges: 9	blocks: 2 orient: -			
U[1158]	edges: 9	blocks: 2 orient: -			
U[1159]	edges: 9	blocks: 2 orient: -			
U[1160]	edges: 9	blocks: 2 orient: -			
U[1161]	edges: 9	blocks: 2 orient: -			
U[1162]	edges: 9	blocks: 2 orient: -			
U[1163]	edges: 9	blocks: 2 orient: -			
U[1164]	edges: 9	blocks: 2 orient: -			
U[1165]	edges: 9	blocks: 2 orient: -			
U[1166]	edges: 9	blocks: 2 orient: -			
U[1167]	edges: 9	blocks: 2 orient: -			
U[1168]	edges: 9	blocks: 2 orient: -			
U[1169]	edges: 9	blocks: 2 orient: -			
U[1170]	edges: 9	blocks: 2 orient: -			
U[1171]	edges: 9	blocks: 2 orient: -			
U[1172]	edges: 9	blocks: 2 orient: -			
U[1173]	edges: 9	blocks: 2 orient: -			
U[1174]	edges: 9	blocks: 2 orient: -			
U[1175]	edges: 9	blocks: 2 orient: -			
U[1176]	edges: 9	blocks: 2 orient: -			
U[1177]	edges: 9	blocks: 2 orient: -			
U[1178]	edges: 9	blocks: 2 orient: -			
U[1179]	edges: 9	blocks: 2 orient: -			
U[1180]	edges: 9	blocks: 2 orient: -			
U[1181]	edges: 9	blocks: 2 orient: -			
U[1182]	edges: 9	blocks: 2 orient: -			
U[1183]	edges: 9	blocks: 2 orient: -			
U[1184]	edges: 9	blocks: 2 orient: -			
U[1185]	edges: 9	blocks: 2 orient: -			
U[1186]	edges: 9	blocks: 2 orient: -			
U[1187]	edges: 9	blocks: 2 orient: -			
U[1188]	edges: 9	blocks: 2 orient: -			
U[1189]	edges: 9	blocks: 2 orient: -			
U[1190]	edges: 9	blocks: 2 orient: -			
U[1191]	edges: 9	blocks: 2 orient: -			
U[1192]	edges: 9	blocks: 2 orient: -			
U[1193]	edges: 9	blocks: 2 orient: -			
U[1194]	edges: 9	blocks: 2 orient: -			
U[1195]	edges: 9	blocks: 2 orient: -			
U[1196]	edges: 9	blocks: 2 orient: -			
U[1197]	edges: 9	blocks: 2 orient: -			
U[1198]	edges: 9	blocks: 2 orient: -			
U[1199]	edges: 9	blocks: 2 orient: -			
U[1200]	edges: 9	blocks: 2 orient: -			
U[1201]	edges: 9	blocks: 2 orient: -			
U[1202]	edges: 9	blocks: 2 orient: -			
U[1203]	edges: 9	blocks: 2 orient: -			
U[1204]	edges: 9	blocks: 2 orient: -			
U[1205]	edges: 9	blocks: 2 orient: -			
U[1206]	edges: 9	blocks: 2 orient: -			
U[1207]	edges: 9	blocks: 2 orient: -			
U[1208]	edges: 9	blocks: 2 orient: -			
U[1209]	edges: 9	blocks: 2 orient: -		<img alt="Diagram U[13	



U[3255] edges: 9 blocks: 2 orient: +		U[3327] edges: 9 blocks: 6 orient: -		U[3331] edges: 9 blocks: 6 orient: -		U[317] edges: 8 blocks: 2 orient: -		U[939] edges: 9 blocks: 2 orient: +		U[1037] edges: 9 blocks: 1 orient: -		U[1151] edges: 9 blocks: 2 orient: +		U[1177] edges: 9 blocks: 2 orient: +	
5	(0) 5^1 55 blinks	r_2^{20} #ts(full) 5	mod theta/pi	#sts											
03	0.707106781	0.000000000	2		U[18] edges: 5 blocks: 3 orient: +		U[25] edges: 6 blocks: 1 orient: -								
04	0.500000000	-0.500000000	6		U[21] edges: 5 blocks: 2 orient: +		U[30] edges: 6 blocks: 3 orient: +								
05	0.707106781	-0.700000000	10		U[22] edges: 5 blocks: 5 orient: -		U[210] edges: 8 blocks: 3 orient: +								
06	0.288675135	1.000000000	19		U[211] edges: 5 blocks: 2 orient: +		U[317] edges: 8 blocks: 2 orient: -								
07	0.521120889	0.428571429	28		U[212] edges: 5 blocks: 1 orient: -		U[939] edges: 9 blocks: 2 orient: +								
08	0.461939766	0.250000000	44		U[213] edges: 5 blocks: 1 orient: +		U[1037] edges: 9 blocks: 1 orient: -								
09	0.303012985	-0.333333333	60		U[214] edges: 5 blocks: 1 orient: +		U[1151] edges: 9 blocks: 2 orient: +								
10	0.500000000	-0.600000000	85		U[215] edges: 5 blocks: 1 orient: -		U[1177] edges: 9 blocks: 2 orient: +								
11	0.230530019	-0.909090909	110		U[216] edges: 5 blocks: 1 orient: +		U[1306] edges: 9 blocks: 2 orient: -								
12	0.394337567	0.500000000	146		U[217] edges: 5 blocks: 1 orient: -		U[1340] edges: 9 blocks: 4 orient: +								
	gem: cabfddehgji hjdcbifage h0 v20 gfeicbjdha				U[218] edges: 5 blocks: 1 orient: +		U[2445] edges: 9 blocks: 1 orient: +								
					U[219] edges: 5 blocks: 2 orient: +		U[2577] edges: 9 blocks: 3 orient: -								
					U[220] edges: 5 blocks: 2 orient: -		U[2583] edges: 9 blocks: 3 orient: -								
					U[221] edges: 5 blocks: 2 orient: -		U[2584] edges: 9 blocks: 3 orient: -								
					U[222] edges: 5 blocks: 2 orient: +		U[2585] edges: 9 blocks: 3 orient: -								
					U[223] edges: 5 blocks: 2 orient: -		U[2586] edges: 9 blocks: 3 orient: -								
					U[224] edges: 5 blocks: 2 orient: +		U[2587] edges: 9 blocks: 3 orient: -								
					U[225] edges: 5 blocks: 2 orient: -		U[2588] edges: 9 blocks: 3 orient: -								
					U[226] edges: 5 blocks: 2 orient: +		U[2589] edges: 9 blocks: 3 orient: -								
					U[227] edges: 5 blocks: 2 orient: -		U[2590] edges: 9 blocks: 3 orient: -								
					U[228] edges: 5 blocks: 2 orient: +		U[2591] edges: 9 blocks: 3 orient: -								
					U[229] edges: 5 blocks: 2 orient: -		U[2592] edges: 9 blocks: 3 orient: -								
					U[230] edges: 5 blocks: 2 orient: +		U[2593] edges: 9 blocks: 3 orient: -								
					U[231] edges: 5 blocks: 2 orient: -		U[2594] edges: 9 blocks: 3 orient: -								
					U[232] edges: 5 blocks: 2 orient: +		U[2595] edges: 9 blocks: 3 orient: -								
					U[233] edges: 5 blocks: 2 orient: -		U[2596] edges: 9 blocks: 3 orient: -								
					U[234] edges: 5 blocks: 2 orient: +		U[2597] edges: 9 blocks: 3 orient: -								
					U[235] edges: 5 blocks: 2 orient: -		U[2598] edges: 9 blocks: 3 orient: -								
					U[236] edges: 5 blocks: 2 orient: +		U[2599] edges: 9 blocks: 3 orient: -								
					U[237] edges: 5 blocks: 2 orient: -		U[2600] edges: 9 blocks: 3 orient: -								
					U[238] edges: 5 blocks: 2 orient: +		U[2601] edges: 9 blocks: 3 orient: -								
					U[239] edges: 5 blocks: 2 orient: -		U[2602] edges: 9 blocks: 3 orient: -								
					U[240] edges: 5 blocks: 2 orient: +		U[2603] edges: 9 blocks: 3 orient: -								
					U[241] edges: 5 blocks: 2 orient: -		U[2604] edges: 9 blocks: 3 orient: -								
					U[242] edges: 5 blocks: 2 orient: +		U[2605] edges: 9 blocks: 3 orient: -								
					U[243] edges: 5 blocks: 2 orient: -		U[2606] edges: 9 blocks: 3 orient: -								
					U[244] edges: 5 blocks: 2 orient: +		U[2607] edges: 9 blocks: 3 orient: -								
					U[245] edges: 5 blocks: 2 orient: -		U[2608] edges: 9 blocks: 3 orient: -								
					U[246] edges: 5 blocks: 2 orient: +		U[2609] edges: 9 blocks: 3 orient: -								
					U[247] edges: 5 blocks: 2 orient: -		U[2610] edges: 9 blocks: 3 orient: -								
					U[248] edges: 5 blocks: 2 orient: +		U[2611] edges: 9 blocks: 3 orient: -								
					U[249] edges: 5 blocks: 2 orient: -		U[2612] edges: 9 blocks: 3 orient: -								
					U[250] edges: 5 blocks: 2 orient: +		U[2613] edges: 9 blocks: 3 orient: -								
					U[251] edges: 5 blocks: 2 orient: -		U[2614] edges: 9 blocks: 3 orient: -								
					U[252] edges: 5 blocks: 2 orient: +		U[2615] edges: 9 blocks: 3 orient: -								
					U[253] edges: 5 blocks: 2 orient: -		U[2616] edges: 9 blocks: 3 orient: -								
					U[254] edges: 5 blocks: 2 orient: +		U[2617] edges: 9 blocks: 3 orient: -								
					U[255] edges: 5 blocks: 2 orient: -		U[2618] edges: 9 blocks: 3 orient: -								
					U[256] edges: 5 blocks: 2 orient: +		U[2619] edges: 9 blocks: 3 orient: -								
					U[257] edges: 5 blocks: 2 orient: -		U[2620] edges: 9 blocks: 3 orient: -								
					U[258] edges: 5 blocks: 2 orient: +		U[2621] edges: 9 blocks: 3 orient: -								
					U[259] edges: 5 blocks: 2 orient: -		U[2622] edges: 9 blocks: 3 orient: -								
					U[260] edges: 5 blocks: 2 orient: +		U[2623] edges: 9 blocks: 3 orient: -								
					U[261] edges: 5 blocks: 2 orient: -		U[2624] edges: 9 blocks: 3 orient: -								
					U[262] edges: 5 blocks: 2 orient: +		U[2625] edges: 9 blocks: 3 orient: -								
					U[263] edges: 5 blocks: 2 orient: -		U[2626] edges: 9 blocks: 3 orient: -								
					U[264] edges: 5 blocks: 2 orient: +		U[2627] edges: 9 blocks: 3 orient: -								
					U[265] edges: 5 blocks: 2 orient: -		U[2628] edges: 9 blocks: 3 orient: -								
					U[266] edges: 5 blocks: 2 orient: +		U[2629] edges: 9 blocks: 3 orient: -								
					U[267] edges: 5 blocks: 2 orient: -		U[2630] edges: 9 blocks: 3 orient: -								
					U[268] edges: 5 blocks: 2 orient: +		U[2631] edges: 9 blocks: 3 orient: -								
					U[269] edges: 5 blocks: 2 orient: -		U[2632] edges: 9 blocks: 3 orient: -								
					U[270] edges: 5 blocks: 2 orient: +		U[2633] edges: 9 blocks: 3 orient: -								
					U[271] edges: 5 blocks: 2 orient: -		U[2634] edges: 9 blocks: 3 orient: -								
					U[272] edges: 5 blocks: 2 orient: +		U[2635] edges: 9 blocks: 3 orient: -								
					U[273] edges: 5 blocks: 2 orient: -		U[2636] edges: 9 blocks: 3 orient: -								
					U[274] edges: 5 blocks: 2 orient: +		U[2637] edges: 9 blocks: 3 orient: -								
					U[275] edges: 5 blocks: 2 orient: -		U[2638] edges: 9 blocks: 3 orient: -								
					U[276] edges: 5 blocks: 2 orient: +		U[2639] edges: 9 blocks: 3 orient: -								
					U[277] edges: 5 blocks: 2 orient: -		U[2640] edges: 9 blocks: 3 orient: -								
					U[278] edges: 5 blocks: 2 orient: +		U[2641] edges: 9 blocks: 3 orient: -								
					U[279] edges: 5 blocks: 2 orient: -		U[2642] edges: 9 blocks: 3 orient: -								
					U[280] edges: 5 blocks: 2 orient: +		U[2643] edges: 9 blocks: 3 orient: -								
					U[281] edges: 5 blocks: 2 orient: -		U[2644] edges: 9 blocks: 3 orient: -								
					U[282] edges: 5 blocks:										

U[83] edges: 7 blocks: 2 orient: +	U[321] edges: 8 blocks: 2 orient: -	U[695] edges: 8 blocks: 5 orient: -	U[1035] edges: 9 blocks: 1 orient: +	U[1324] edges: 9 blocks: 3 orient: +																																												
U[151] edges: 7 blocks: 2 orient: +	U[381] edges: 8 blocks: 2 orient: -	U[699] edges: 8 blocks: 5 orient: -	U[1140] edges: 9 blocks: 2 orient: -	U[1329] edges: 9 blocks: 3 orient: +																																												
U[197] edges: 7 blocks: 4 orient: -	U[600] edges: 8 blocks: 1 orient: +	U[1034] edges: 9 blocks: 1 orient: +	U[1164] edges: 9 blocks: 2 orient: +	U[1343] edges: 9 blocks: 4 orient: +																																												
U[1399] edges: 9 blocks: 1 orient: -	U[1500] edges: 9 blocks: 4 orient: +	U[2050] edges: 9 blocks: 5 orient: +	U[2587] edges: 9 blocks: 3 orient: +	U[2897] edges: 9 blocks: 4 orient: +																																												
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6₃ $(0) 6^1$ 12 blinks r_{422}^{30} #ts(full) 23 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.382683432</td><td>-0.250000000</td><td>18</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>34</td></tr> <tr><td>06</td><td>0.707106781</td><td>0.250000000</td><td>115</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>196</td></tr> <tr><td>08</td><td>0.720437448</td><td>-0.462286306</td><td>452</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>708</td></tr> <tr><td>10</td><td>0.338511157</td><td>0.033860236</td><td>1333</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>1958</td></tr> <tr><td>12</td><td>0.866025404</td><td>-0.820913276</td><td>3254</td></tr> </tbody> </table> <p>gem: dabcgefjhimklon jmledcngkaiobhf h0 v30 mfhjobacnkdigle</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	2	04	0.382683432	-0.250000000	18	05	0.000000000	0.000000000	34	06	0.707106781	0.250000000	115	07	0.000000000	0.000000000	196	08	0.720437448	-0.462286306	452	09	0.000000000	0.000000000	708	10	0.338511157	0.033860236	1333	11	0.000000000	0.000000000	1958	12	0.866025404	-0.820913276	3254	
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<p>6₈ (3) 2 blinks</p> <p>r_1^{24} #ts(full) 1</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>2.000000000</td><td>0.000000000</td><td>8</td></tr> <tr><td>04</td><td>3.000000000</td><td>0.000000000</td><td>40</td></tr> <tr><td>05</td><td>4.000000000</td><td>0.000000000</td><td>152</td></tr> <tr><td>06</td><td>5.000000000</td><td>0.000000000</td><td>475</td></tr> <tr><td>07</td><td>6.000000000</td><td>0.000000000</td><td>1280</td></tr> <tr><td>08</td><td>7.000000000</td><td>0.000000000</td><td>3072</td></tr> <tr><td>09</td><td>8.000000000</td><td>0.000000000</td><td>6720</td></tr> <tr><td>10</td><td>9.000000000</td><td>0.000000000</td><td>13629</td></tr> <tr><td>11</td><td>10.000000000</td><td>0.000000000</td><td>25960</td></tr> <tr><td>12</td><td>11.000000000</td><td>0.000000000</td><td>46904</td></tr> </tbody> </table> <p>gem: cabfdeighljk ijdcldgfkbhe h0 v24 kegjhalbdifc</p>	r	mod	theta/pi	#sts	03	2.000000000	0.000000000	8	04	3.000000000	0.000000000	40	05	4.000000000	0.000000000	152	06	5.000000000	0.000000000	475	07	6.000000000	0.000000000	1280	08	7.000000000	0.000000000	3072	09	8.000000000	0.000000000	6720	10	9.000000000	0.000000000	13629	11	10.000000000	0.000000000	25960	12	11.000000000	0.000000000	46904	<p>6₉ (0) 2¹ 11 blinks</p> <p>$r_?^{40}$ #ts(full) 936</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.923879533</td><td>-0.500000000</td><td>18</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>34</td></tr> <tr><td>06</td><td>0.211324865</td><td>0.000000000</td><td>115</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>196</td></tr> <tr><td>08</td><td>0.631370135</td><td>0.868754838</td><td>452</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>708</td></tr> <tr><td>10</td><td>0.569259632</td><td>0.258655420</td><td>1333</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>1958</td></tr> <tr><td>12</td><td>1.106237596</td><td>-0.561550362</td><td>3254</td></tr> </tbody> </table> <p>gem: dabcgefjhimklpnqrts gqpldkamofjesbrtnihc h0 v40 kmfotqhgpanildrcsje</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	2	04	0.923879533	-0.500000000	18	05	0.000000000	0.000000000	34	06	0.211324865	0.000000000	115	07	0.000000000	0.000000000	196	08	0.631370135	0.868754838	452	09	0.000000000	0.000000000	708	10	0.569259632	0.258655420	1333	11	0.000000000	0.000000000	1958	12	1.106237596	-0.561550362	3254
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	U[183] edges: 7 blocks: 6 orient: +	U[2514] edges: 9 blocks: 5 orient: +	U[3033] edges: 9 blocks: 4 orient: +
	U[723] edges: 8 blocks: 3 orient: +	U[3027] edges: 9 blocks: 3 orient: +	U[3351] edges: 9 blocks: 4 orient: +
	U[52] edges: 6 blocks: 3 orient: +	U[348] edges: 8 blocks: 3 orient: -	U[443] edges: 8 blocks: 3 orient: -
	U[307] edges: 8 blocks: 2 orient: +	U[418] edges: 8 blocks: 2 orient: -	U[615] edges: 8 blocks: 1 orient: +
	U[341] edges: 8 blocks: 3 orient: -	U[422] edges: 8 blocks: 2 orient: +	U[789] edges: 9 blocks: 1 orient: -
	U[791] edges: 9 blocks: 1 orient: -	U[2914] edges: 9 blocks: 3 orient: -	U[54] edges: 6 blocks: 1 orient: +
	U[1274] edges: 9 blocks: 4 orient: +	U[1276] edges: 9 blocks: 4 orient: +	U[56] edges: 6 blocks: 2 orient: -
	U[203] edges: 8 blocks: 1 orient: -	U[417] edges: 8 blocks: 2 orient: -	U[171] edges: 7 blocks: 2 orient: -
	U[342] edges: 8 blocks: 3 orient: +	U[794] edges: 9 blocks: 1 orient: +	U[1998] edges: 9 blocks: 1 orient: +
6₁₅ (0) 2 ² 13 blinks r ₁₅₄ ²⁴ #ts(full) 2 r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.2247444871 0.195913276 16 05 0.000000000 0.000000000 44 06 1.382274793 0.117811240 107 07 0.000000000 0.000000000 224 08 1.460370991 -0.031973990 432 09 0.000000000 0.000000000 768 10 1.477069905 -0.215496875 1293 11 0.000000000 0.000000000 2068 12 1.455875392 -0.420968007 3184 gem: dabchefgjilk h0 v24 jlfedcbkhraig h0 v24 khgiajcblfed	U[1400] edges: 9 blocks: 1 orient: +	U[1949] edges: 9 blocks: 1 orient: -	U[2000] edges: 9 blocks: 1 orient: -
6₁₆ (2) 18 blinks r ₁₄ ²⁶ #ts(full) 2 r mod theta/pi #sts 03 1.414213562 0.000000000 4 04 1.000000000 0.000000000 16 05 0.874032049 -0.300000000 44 06 1.732050808 -0.333333333 107 07 2.000000000 -0.242116129 224 08 1.473625758 -0.215694166 432 09 1.414213562 -0.388888889 768 10 2.236067977 -0.400000000 1293 11 2.449489743 -0.315876160 2068 12 1.880398464 -0.293951872 3184 gem: cabfdeighkjm h0 v26 imdckgfelbhaj h0 v26 ehgjalmbdifkc	U[57] edges: 6 blocks: 2 orient: +	U[3167] edges: 9 blocks: 4 orient: +	U[2231] edges: 9 blocks: 2 orient: -
	U[775] edges: 8 blocks: 3 orient: +	U[3152] edges: 9 blocks: 4 orient: +	
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6₁₇ (0) 6 ¹ 4 blinks r _{? 36} #ts(full) 1 r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.923879532 -0.750000000 18 05 0.000000000 0.000000000 34 06 1.581138830 0.102416382 115 07 0.000000000 0.000000000 196 08 1.503987945 0.875000000 452 09 0.000000000 0.000000000 708 10 1.972944708 -0.400000000 1333 11 0.000000000 0.000000000 1958 12 1.877566278 0.308808229 3254 gem: dabcgefhimklongpsr h0 v38 jipodnhgraccfmeksb h0 v38 lphrqaisokjfdbgnemc			

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12	4.000000000	0.000000000	3254																																																																																																																																																																																																																								
6	19 (1) 10 blinks	r^{40} #ts(full) 2	<table border="1"> <thead> <tr> <th>r</th><th>mod</th><th>theta/pi</th><th>#sts</th></tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>10</td></tr> <tr><td>05</td><td>0.381966011</td><td>0.000000000</td><td>18</td></tr> <tr><td>06</td><td>1.000000000</td><td>0.000000000</td><td>45</td></tr> <tr><td>07</td><td>0.198062264</td><td>0.000000000</td><td>72</td></tr> <tr><td>08</td><td>0.414213562</td><td>1.000000000</td><td>136</td></tr> <tr><td>09</td><td>0.226681597</td><td>1.000000000</td><td>200</td></tr> <tr><td>10</td><td>0.236067978</td><td>1.000000000</td><td>325</td></tr> <tr><td>11</td><td>0.011386646</td><td>1.000000000</td><td>450</td></tr> <tr><td>12</td><td>0.267949192</td><td>0.000000000</td><td>666</td></tr> </tbody> </table> <p>gem: dabcefghimklpnorgts jnkmdtqgoacpebirhslf h0 v40 lfsokiapbebjggmrtnndch</p>	r	mod	theta/pi	#sts	03	1.000000000	0.000000000	2	04	0.000000000	0.000000000	10	05	0.381966011	0.000000000	18	06	1.000000000	0.000000000	45	07	0.198062264	0.000000000	72	08	0.414213562	1.000000000	136	09	0.226681597	1.000000000	200	10	0.236067978	1.000000000	325	11	0.011386646	1.000000000	450	12	0.267949192	0.000000000	666																																																																																																																																																																												
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U[1407]	edges: 9 blocks: 3 orient: +	6 (0) 6 ¹ 19 blinks	<table border="1"> <thead> <tr> <th>r</th><th>mod</th><th>theta/pi</th><th>#sts</th></tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.923879532</td><td>-0.750000000</td><td>3</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>06</td><td>0.707106781</td><td>0.750000000</td><td>5</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>6</td></tr> <tr><td>08</td><td>0.587937801</td><td>0.375000000</td><td>7</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>8</td></tr> <tr><td>10</td><td>0.563522005</td><td>0.000000000</td><td>9</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>10</td></tr> <tr><td>12</td><td>0.500000000</td><td>-0.375000000</td><td>11</td></tr> </tbody> </table> <p>gem: dabcefghijkl jiledckgbahf h0 v24 hjgfkdcaelib</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	2	04	0.923879532	-0.750000000	3	05	0.000000000	0.000000000	4	06	0.707106781	0.750000000	5	07	0.000000000	0.000000000	6	08	0.587937801	0.375000000	7	09	0.000000000	0.000000000	8	10	0.563522005	0.000000000	9	11	0.000000000	0.000000000	10	12	0.500000000	-0.375000000	11																																																																																																																																																																												
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U[1132]	edges: 9 blocks: 3 orient: -	U[1822]	edges: 9 blocks: 2 orient: -	U[2358]	edges: 9 blocks: 2 orient: +	U[2523]	edges: 9 blocks: 3 orient: -	U[3281]	edges: 9 blocks: 4 orient: +	U[1358]	edges: 9 blocks: 3 orient: +	U[1879]	edges: 9 blocks: 2 orient: -	U[2359]	edges: 9 blocks: 2 orient: -	U[2673]	edges: 9 blocks: 1 orient: +	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1132]	edges: 9 blocks: 3 orient: -	U[1879]	edges: 9 blocks: 2 orient: -	U[2358]	edges: 9 blocks: 2 orient: -	U[2523]	edges: 9 blocks: 3 orient: -	U[3281]	edges: 9 blocks: 4 orient: +	U[1358]	edges: 9 blocks: 3 orient: +	U[1879]	edges: 9 blocks: 2 orient: -	U[2359]	edges: 9 blocks: 2 orient: -	U[2673]	edges: 9 blocks: 1 orient: +	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +	U[2508]	edges: 9 blocks: 5 orient: -	U[3026]	edges: 9 blocks: 3 orient: -	U[1480]	edges: 9 blocks: 4 orient: -	U[2328]	edges: 9 blocks: 1 orient: +

7₂	(0) 9 ¹	22 blinks					
	r ₈ ²⁶	#ts(full) 11					
r	mod	theta/pi	#sts				
03	0.707106781	0.000000000	4	U[67]	edges: 7 blocks: 2 orient: +	U[484]	edges: 8 blocks: 1 orient: +
04	0.500000000	0.000000000	40	U[89]	edges: 7 blocks: 1 orient: +	U[808]	edges: 9 blocks: 2 orient: +
05	0.798872081	-0.254068341	140	U[734]	edges: 8 blocks: 5 orient: +	U[927]	edges: 9 blocks: 2 orient: -
06	0.500000000	-0.500000000	515	U[413]	edges: 8 blocks: 2 orient: -	U[1318]	edges: 9 blocks: 5 orient: +
07	0.327985278	-0.757883871	1376	U[750]	edges: 8 blocks: 4 orient: -		
08	0.732537816	1.000000000	3504				
09	0.707106781	0.722222222	7680				
10	0.638196601	0.508136683	16005				
11	0.927761389	0.348422102	30580				
12	0.790569415	0.102416382	56056				
gem:	cabfdeighkjml						
	imdcbjfkaglhe						
h0 v26	mgkjlcbadifeh						
U[1543]	edges: 9 blocks: 1 orient: -	U[1957]	edges: 9 blocks: 5 orient: +	U[2397]	edges: 9 blocks: 1 orient: +	U[3363]	edges: 9 blocks: 6 orient: +
U[1750]	edges: 9 blocks: 1 orient: -	U[2095]	edges: 9 blocks: 2 orient: +	U[2430]	edges: 9 blocks: 1 orient: +	U[3397]	edges: 9 blocks: 5 orient: +
U[1818]	edges: 9 blocks: 2 orient: +	U[2100]	edges: 9 blocks: 2 orient: -	U[2503]	edges: 9 blocks: 1 orient: +	U[3433]	edges: 9 blocks: 7 orient: -
U[2542]	edges: 9 blocks: 2 orient: -	U[3113]	edges: 9 blocks: 1 orient: -	U[68]	edges: 7 blocks: 2 orient: +	U[1464]	edges: 9 blocks: 1 orient: -
U[2633]	edges: 9 blocks: 3 orient: -			U[1675]	edges: 9 blocks: 2 orient: +	U[2160]	edges: 9 blocks: 1 orient: -
U[3072]	edges: 9 blocks: 1 orient: +			U[843]	edges: 9 blocks: 1 orient: +	U[2258]	edges: 9 blocks: 1 orient: -
U[1247]	edges: 9 blocks: 1 orient: -	U[2115]	edges: 9 blocks: 1 orient: -	U[1335]	edges: 9 blocks: 1 orient: +	U[1985]	edges: 9 blocks: 1 orient: +
U[1559]	edges: 9 blocks: 1 orient: -	U[2476]	edges: 9 blocks: 1 orient: +	U[169]	edges: 7 blocks: 1 orient: +		
U[1661]	edges: 9 blocks: 1 orient: +	U[2960]	edges: 9 blocks: 1 orient: -	U[994]	edges: 9 blocks: 1 orient: +		
				U[1001]	edges: 9 blocks: 1 orient: +		
				U[70]	edges: 7 blocks: 1 orient: +		
				U[502]	edges: 8 blocks: 2 orient: +		
				U[1494]	edges: 9 blocks: 2 orient: -		
7₃	(0) 9 ¹	13 blinks					
	r ₂ ³²	#ts(full) 67					
r	mod	theta/pi	#sts				
03	0.707106781	0.000000000	4	U[68]	edges: 7 blocks: 2 orient: +	U[1464]	edges: 9 blocks: 1 orient: -
04	0.500000000	0.000000000	40	U[1675]	edges: 9 blocks: 2 orient: +	U[2160]	edges: 9 blocks: 1 orient: -
05	0.371748034	-0.600000000	140	U[843]	edges: 9 blocks: 1 orient: +	U[2258]	edges: 9 blocks: 1 orient: -
06	0.500000000	0.500000000	515	U[1335]	edges: 9 blocks: 1 orient: +	U[1985]	edges: 9 blocks: 1 orient: +
07	0.689972794	0.201069308	1376	U[169]	edges: 7 blocks: 1 orient: +	U[2342]	edges: 9 blocks: 1 orient: +
08	1.15221249	0.000000000	3504	U[2476]	edges: 9 blocks: 1 orient: +		
09	0.707106781	-0.388888889	7680	U[1001]	edges: 9 blocks: 1 orient: +		
10	0.138196601	-0.800000000	16005	U[70]	edges: 7 blocks: 1 orient: +		
11	0.358106204	0.503910557	30580	U[502]	edges: 8 blocks: 2 orient: +		
12	0.790569415	-0.102416382	56056	U[1494]	edges: 9 blocks: 2 orient: -		
gem:	dabcgefjhilklnmpo						
	gphndialmjckefb						
h0 v32	oikfpdmglanbhcj						
U[2542]	edges: 9 blocks: 2 orient: -	U[3113]	edges: 9 blocks: 1 orient: -				
U[2633]	edges: 9 blocks: 3 orient: -						
U[3072]	edges: 9 blocks: 1 orient: +						
U[1247]	edges: 9 blocks: 1 orient: -	U[2115]	edges: 9 blocks: 1 orient: -				
U[1559]	edges: 9 blocks: 1 orient: -	U[2476]	edges: 9 blocks: 1 orient: +				
U[1661]	edges: 9 blocks: 1 orient: +	U[2960]	edges: 9 blocks: 1 orient: -				
7₄	(0) 7 ¹	9 blinks					
	r _? ³⁸	#ts(full) 4					
r	mod	theta/pi	#sts				
03	0.707106781	0.500000000	2	U[69]	edges: 7 blocks: 1 orient: +		
04	0.500000000	-0.750000000	34	U[994]	edges: 9 blocks: 1 orient: +		
05	0.601500955	0.100000000	66	U[1001]	edges: 9 blocks: 1 orient: +		
06	0.288675135	0.000000000	309	U[70]	edges: 7 blocks: 1 orient: +		
07	0.314692123	-0.214285714	552	U[502]	edges: 8 blocks: 2 orient: +		
08	0.191341716	-0.125000000	1576	U[1494]	edges: 9 blocks: 2 orient: -		
09	0.787310873	0.329402082	2600				
10	0.361803399	0.800000000	5725				
11	0.570982093	-0.334042779	8850				
12	0.198687476	0.377285205	16626				
gem:	dabcgefjhilmklongpsr						
	jsmedclgpohrfiankqb						
h0 v38	igsnhormakjelpfcqb						
7₅	(0) 3 ¹	9 blinks					
	r _? ³⁶	#ts(full) 7					
r	mod	theta/pi	#sts				
03	0.707106781	0.500000000	2	U[69]	edges: 7 blocks: 1 orient: +		
04	0.500000000	0.750000000	34	U[994]	edges: 9 blocks: 1 orient: +		
05	0.601500955	-0.500000000	66	U[1001]	edges: 9 blocks: 1 orient: +		
06	0.500000000	-0.500000000	309	U[70]	edges: 7 blocks: 1 orient: +		
07	0.754441187	0.009691766	552	U[502]	edges: 8 blocks: 2 orient: +		
08	0.079256334	0.125000000	1576	U[1494]	edges: 9 blocks: 2 orient: -		
09	0.447090679	-0.921891136	2600				
10	0.361803399	0.000000000	5725				
11	0.630267734	-0.900938496	8850				
12	0.570930726	-0.712566479	16626				
gem:	dabcgefjhilmklpnqr						
	jqkmphgfrcnelbiao						
h0 v36	oglpahmfknjqbredci						

U[1667]	edges: 9 blocks: 1 orient: +	U[2483]	edges: 9 blocks: 1 orient: +	7 6 (0) 2^1 25 blinks	U[71]	edges: 7 blocks: 1 orient: +
				r_{1179}^{30} #ts(full) 2		
U[2119]	edges: 9 blocks: 1 orient: -	U[2734]	edges: 9 blocks: 2 orient: -	r mod theta/pi #sts		
				03 0.000000000 0.000000000 4		
U[2444]	edges: 9 blocks: 1 orient: +	U[3042]	edges: 9 blocks: 2 orient: -	04 0.382683432 1.000000000 30		
				05 0.000000000 0.000000000 104		
U[759]	edges: 8 blocks: 4 orient: +	U[1069]	edges: 9 blocks: 2 orient: +	06 0.788675135 1.000000000 367		
				07 0.000000000 0.000000000 960		
U[814]	edges: 9 blocks: 2 orient: +	U[1078]	edges: 9 blocks: 2 orient: +	08 0.693519923 0.500000000 2440		
				09 0.000000000 0.000000000 5248		
U[907]	edges: 9 blocks: 1 orient: -	U[1331]	edges: 9 blocks: 3 orient: +	10 0.504018894 0.659776119 10997		
				11 0.000000000 0.000000000 20712		
U[1939]	edges: 9 blocks: 1 orient: +	U[2327]	edges: 9 blocks: 1 orient: +	12 0.872221707 0.269458789 38206		
				gem: dabcefjhimklon h0 v30 jnmedclgoahbfkijghmanbcfojedik		
U[1940]	edges: 9 blocks: 1 orient: +	U[2572]	edges: 9 blocks: 1 orient: -			
U[2036]	edges: 9 blocks: 1 orient: -	U[2815]	edges: 9 blocks: 1 orient: -	7 7 (0) 7^1 7 blinks		
				$r_?$ #ts(full) 38		
U[77]	edges: 7 blocks: 1 orient: +	U[1760]	edges: 9 blocks: 1 orient: +	r mod theta/pi #sts		
				03 0.707106781 0.500000000 2		
U[1545]	edges: 9 blocks: 1 orient: -	U[2554]	edges: 9 blocks: 2 orient: -	04 0.500000000 0.250000000 34		
				05 0.928333668 0.624367653 66		
U[1627]	edges: 9 blocks: 1 orient: -	U[2750]	edges: 9 blocks: 1 orient: -	06 0.288675135 0.000000000 309		
				07 1.181577136 0.852483549 552		
U[78]	edges: 7 blocks: 1 orient: +	U[165]	edges: 7 blocks: 1 orient: -	08 0.349854384 -0.625000000 1576		
				09 0.647625440 0.998916674 2600		
U[88]	edges: 7 blocks: 1 orient: -	U[176]	edges: 7 blocks: 1 orient: -	10 0.861803399 -0.248735306 5725		
				11 0.810567748 0.895827985 8850		
U[93]	edges: 7 blocks: 1 orient: +	U[749]	edges: 8 blocks: 4 orient: +	12 0.394337567 -0.250000000 16626		
				gem: dabcefjhimklpnosqrvtxw h0 v48 mofedcrgtwjpauslnhbqkvihoutjlqaxkpihnmgdvwcsbfre		
U[812]	edges: 9 blocks: 2 orient: +	U[925]	edges: 9 blocks: 2 orient: -			
U[1010]	edges: 9 blocks: 1 orient: -	U[1018]	edges: 9 blocks: 1 orient: -	7 8 (0) 50 blinks		
				$r_?$ #ts(full) 250		
U[1165]	edges: 9 blocks: 1 orient: +	U[1216]	edges: 9 blocks: 1 orient: +	r mod theta/pi #sts		
				03 0.707106781 0.000000000 2		
U[1216]	edges: 9 blocks: 1 orient: +	U[1250]	edges: 9 blocks: 1 orient: +	04 0.500000000 0.000000000 34		
				05 0.573741760 0.524367653 66		
U[1250]	edges: 9 blocks: 1 orient: +			06 0.288675135 0.000000000 309		
				07 0.562859611 0.131583733 552		
				08 0.574025149 0.000000000 1576		
				09 0.560862388 0.614713039 2600		
				10 0.329179607 0.951264694 5725		
				11 0.394017849 0.645240884 8850		
				12 0.460571866 0.130073469 16626		
				gem: dabcefjhimklonqp h0 v34 jipodlqgbacfnmekh qgnjkpkocfmiedhbla		

U[1259] edges: 9 blocks: 1 orient: -	U[1447] edges: 9 blocks: 1 orient: -	U[1541] edges: 9 blocks: 1 orient: +	U[1622] edges: 9 blocks: 1 orient: -	U[1693] edges: 9 blocks: 2 orient: +																																												
U[1420] edges: 9 blocks: 1 orient: +	U[1509] edges: 9 blocks: 3 orient: -	U[1549] edges: 9 blocks: 1 orient: -	U[1646] edges: 9 blocks: 1 orient: -	U[1817] edges: 9 blocks: 2 orient: -																																												
U[1430] edges: 9 blocks: 1 orient: -	U[1523] edges: 9 blocks: 2 orient: -	U[1560] edges: 9 blocks: 1 orient: +	U[1676] edges: 9 blocks: 2 orient: -	U[1823] edges: 9 blocks: 2 orient: +																																												
U[1984] edges: 9 blocks: 1 orient: -	U[2147] edges: 9 blocks: 1 orient: -	U[2209] edges: 9 blocks: 2 orient: +	U[2341] edges: 9 blocks: 1 orient: -	U[2497] edges: 9 blocks: 1 orient: -																																												
U[2097] edges: 9 blocks: 2 orient: -	U[2148] edges: 9 blocks: 1 orient: +	U[2248] edges: 9 blocks: 1 orient: -	U[2403] edges: 9 blocks: 1 orient: -	U[2755] edges: 9 blocks: 1 orient: -																																												
U[2109] edges: 9 blocks: 1 orient: +	U[2187] edges: 9 blocks: 1 orient: +	U[2249] edges: 9 blocks: 1 orient: +	U[2486] edges: 9 blocks: 1 orient: -	U[2758] edges: 9 blocks: 1 orient: +																																												
U[2802] edges: 9 blocks: 2 orient: -	U[3108] edges: 9 blocks: 1 orient: +	7₉ (1) 3¹ 9 blinks $r_?$ ⁴⁰ #ts(full) 1810 <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.500000000</td><td>4</td></tr> <tr><td>04</td><td>1.000000000</td><td>0.250000000</td><td>46</td></tr> <tr><td>05</td><td>1.543361918</td><td>-0.624367653</td><td>152</td></tr> <tr><td>06</td><td>1.000000000</td><td>0.333333333</td><td>623</td></tr> <tr><td>07</td><td>1.414213562</td><td>-0.686455299</td><td>1580</td></tr> <tr><td>08</td><td>1.000000000</td><td>0.375000000</td><td>4308</td></tr> <tr><td>09</td><td>1.532088886</td><td>-0.944444444</td><td>9084</td></tr> <tr><td>10</td><td>2.127877827</td><td>0.110914604</td><td>19809</td></tr> <tr><td>11</td><td>1.016298803</td><td>0.890999892</td><td>36784</td></tr> <tr><td>12</td><td>1.931851652</td><td>-0.333333333</td><td>69610</td></tr> </tbody> </table> gem: dabcefghimklpnorgts h0 v40 ioendlgbartfmcsapkgh loqhbsrmfnjpdktagie			r	mod	theta/pi	#sts	03	1.000000000	-0.500000000	4	04	1.000000000	0.250000000	46	05	1.543361918	-0.624367653	152	06	1.000000000	0.333333333	623	07	1.414213562	-0.686455299	1580	08	1.000000000	0.375000000	4308	09	1.532088886	-0.944444444	9084	10	2.127877827	0.110914604	19809	11	1.016298803	0.890999892	36784	12	1.931851652	-0.333333333	69610
r	mod	theta/pi	#sts																																													
03	1.000000000	-0.500000000	4																																													
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05	1.543361918	-0.624367653	152																																													
06	1.000000000	0.333333333	623																																													
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U[3023] edges: 9 blocks: 4 orient: -	U[3125] edges: 9 blocks: 1 orient: +	U[79] edges: 7 blocks: 1 orient: + 																																														
		U[1232] edges: 9 blocks: 1 orient: - 																																														
U[3043] edges: 9 blocks: 2 orient: +																																																
U[2171] edges: 9 blocks: 1 orient: -	U[2929] edges: 9 blocks: 2 orient: +	U[1876] edges: 9 blocks: 2 orient: + 																																														
		U[81] edges: 7 blocks: 1 orient: + 																																														
U[2354] edges: 9 blocks: 2 orient: -	U[2930] edges: 9 blocks: 2 orient: +	U[87] edges: 7 blocks: 1 orient: - 																																														
		U[113] edges: 7 blocks: 1 orient: - 																																														
U[2404] edges: 9 blocks: 1 orient: +	U[3082] edges: 9 blocks: 2 orient: +	U[2353] edges: 9 blocks: 2 orient: - 																																														
		U[2389] edges: 9 blocks: 1 orient: - 																																														
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		U[2466] edges: 9 blocks: 1 orient: - 																																														
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		U[2388] edges: 9 blocks: 1 orient: - 																																														
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U[2708] edges: 9 blocks: 1 orient: +	U[86] edges: 7 blocks: 1 orient: +	U[977] edges: 9 blocks: 1 orient: -	U[1891] edges: 9 blocks: 1 orient: +	U[2393] edges: 9 blocks: 1 orient: +
U[2394] edges: 9 blocks: 1 orient: +	U[3379] edges: 9 blocks: 3 orient: -	U[3385] edges: 9 blocks: 2 orient: +	U[90] edges: 7 blocks: 1 orient: +	U[296] edges: 8 blocks: 1 orient: -
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U[765] edges: 8 blocks: 7 orient: -	U[932] edges: 9 blocks: 2 orient: +	U[1312] edges: 9 blocks: 5 orient: +	U[1566] edges: 9 blocks: 2 orient: -	U[1954] edges: 9 blocks: 5 orient: +
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U[823] edges: 9 blocks: 2 orient: -	U[1053] edges: 9 blocks: 2 orient: +	U[1522] edges: 9 blocks: 2 orient: +	U[1746] edges: 9 blocks: 1 orient: -	U[2099] edges: 9 blocks: 2 orient: +
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U[2300] edges: 9 blocks: 4 orient: +	U[2739] edges: 9 blocks: 2 orient: +	U[3416] edges: 9 blocks: 8 orient: -	U[1491] edges: 9 blocks: 2 orient: +	U[1639] edges: 9 blocks: 1 orient: -
U[2433] edges: 9 blocks: 1 orient: +	U[3051] edges: 9 blocks: 2 orient: +	U[3316] edges: 9 blocks: 2 orient: +	U[1639] edges: 9 blocks: 1 orient: -	U[1649] edges: 9 blocks: 1 orient: +
U[91] edges: 7 blocks: 1 orient: +	U[987] edges: 9 blocks: 1 orient: +	U[1209] edges: 9 blocks: 1 orient: -	U[1265] edges: 9 blocks: 1 orient: +	U[1491] edges: 9 blocks: 2 orient: +
U[156] edges: 7 blocks: 1 orient: +	U[1195] edges: 9 blocks: 1 orient: -	U[1252] edges: 9 blocks: 1 orient: -	U[1418] edges: 9 blocks: 1 orient: -	U[1639] edges: 9 blocks: 1 orient: -
U[831] edges: 9 blocks: 1 orient: -	U[1196] edges: 9 blocks: 1 orient: -	U[1253] edges: 9 blocks: 1 orient: -	U[1433] edges: 9 blocks: 1 orient: -	U[1649] edges: 9 blocks: 1 orient: +

7 11 (1) 9 blinks

$r_{?}^{40}$ #ts(full) 115

r	mod	theta/pi	#sts
03	1.000000000	0.000000000	4
04	0.000000000	0.000000000	30
05	0.618033989	0.200000000	96
06	0.000000000	0.000000000	339
07	1.856082398	0.604603779	852
08	1.732050808	0.304086724	2156
09	0.446475588	0.277777778	4548
10	1.328131026	0.254068341	9493
11	0.255700272	-0.136363636	17688
12	2.236067978	0.647583618	32538

gem: dabcgefjhimklpnqrts
jgtedshgmafnrlkbpoc
h0 v40 qfkotlampcjbesdignrh

7 12 (0) 9¹ 29 blinks

$r_{?}^{24}$ #ts(full) 14

r	mod	theta/pi	#sts
03	0.707106781	0.000000000	4
04	0.500000000	0.000000000	40
05	0.371748034	0.600000000	140
06	0.500000000	0.500000000	515
07	0.521120889	0.428571429	1376
08	0.191341716	0.000000000	3504
09	0.000000000	0.000000000	7680
10	0.138196601	0.800000000	16005
11	0.422061281	0.363636364	30580
12	0.353553391	0.250000000	56056

gem: cabfdelighljk
ilkcjgfahedb
h0 v24 lkigbhdjfcea

7 13 (0) 3¹ 37 blinks

$r_{?}^{44}$ #ts(full) 4

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04	0.500000000	0.250000000	18
05	0.354591908	-0.224367653	42
06	0.500000000	0.500000000	141
07	0.525331292	-0.120518584	294
08	0.303427098	0.375000000	696
09	0.721399981	-0.177468763	1272
10	0.125735421	-0.551264694	2493
11	0.436318646	0.657921191	4150
12	0.668428582	-0.281953411	7186

gem: dabcgefjhimklpnosqrutwv
jruwdkhgmafvslctpbqone
h0 v46 rfisuplmqojtwekbcdvgnah

U[1719] edges: 9 blocks: 1 orient: +	U[2156] edges: 9 blocks: 1 orient: -	U[2255] edges: 9 blocks: 1 orient: -	U[2344] edges: 9 blocks: 1 orient: +	U[2477] edges: 9 blocks: 1 orient: -																																												
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U[1987] edges: 9 blocks: 1 orient: +	U[2199] edges: 9 blocks: 1 orient: +	U[2270] edges: 9 blocks: 1 orient: +	U[2424] edges: 9 blocks: 1 orient: +	U[2725] edges: 9 blocks: 1 orient: +																																												
U[2737] edges: 9 blocks: 2 orient: -	U[3071] edges: 9 blocks: 1 orient: -	U[3121] edges: 9 blocks: 1 orient: +	7₁₄ (0)⁷₁ 32 blinks																																													
			r_{10}^{26} #ts(full) 1 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>-0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.750000000</td><td>18</td></tr> <tr><td>05</td><td>0.229752921</td><td>0.900000000</td><td>42</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>141</td></tr> <tr><td>07</td><td>0.707106781</td><td>-0.928571429</td><td>294</td></tr> <tr><td>08</td><td>0.732537816</td><td>0.125000000</td><td>696</td></tr> <tr><td>09</td><td>0.618213611</td><td>-0.639541727</td><td>1272</td></tr> <tr><td>10</td><td>0.052786404</td><td>-0.800000000</td><td>2493</td></tr> <tr><td>11</td><td>0.493224022</td><td>0.457962820</td><td>4150</td></tr> <tr><td>12</td><td>0.714957726</td><td>-0.345511799</td><td>7186</td></tr> </tbody> </table> gem: cabfdeighkjml h0 v26 imdcbkfjalghe ldfbjhmciaikg		r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	2	04	0.500000000	0.750000000	18	05	0.229752921	0.900000000	42	06	0.288675135	0.000000000	141	07	0.707106781	-0.928571429	294	08	0.732537816	0.125000000	696	09	0.618213611	-0.639541727	1272	10	0.052786404	-0.800000000	2493	11	0.493224022	0.457962820	4150	12	0.714957726	-0.345511799	7186
r	mod	theta/pi	#sts																																													
03	0.707106781	-0.500000000	2																																													
04	0.500000000	0.750000000	18																																													
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12	0.714957726	-0.345511799	7186																																													
U[2966] edges: 9 blocks: 1 orient: -	U[3074] edges: 9 blocks: 1 orient: +																																															
U[3047] edges: 9 blocks: 2 orient: -	U[3115] edges: 9 blocks: 1 orient: +																																															
U[94] edges: 7 blocks: 1 orient: +	U[168] edges: 7 blocks: 4 orient: +	U[462] edges: 8 blocks: 2 orient: -	U[751] edges: 8 blocks: 4 orient: +	U[1192] edges: 9 blocks: 3 orient: +																																												
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U[1636] edges: 9 blocks: 2 orient: +	U[1715] edges: 9 blocks: 1 orient: -	U[2058] edges: 9 blocks: 4 orient: -	U[2482] edges: 9 blocks: 1 orient: -	U[3053] edges: 9 blocks: 2 orient: -																																												
U[3197] edges: 9 blocks: 2 orient: +	7₁₅ (0) 21 blinks																																															
	$r_?$ ³⁸ #ts(full) 1 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>18</td></tr> <tr><td>05</td><td>0.141995114</td><td>-0.600000000</td><td>42</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>141</td></tr> <tr><td>07</td><td>0.658686217</td><td>-0.602751814</td><td>294</td></tr> <tr><td>08</td><td>0.732537816</td><td>-0.500000000</td><td>696</td></tr> <tr><td>09</td><td>0.254574712</td><td>-0.373011580</td><td>1272</td></tr> <tr><td>10</td><td>0.020162612</td><td>-0.799999999</td><td>2493</td></tr> <tr><td>11</td><td>0.642860106</td><td>0.824325175</td><td>4150</td></tr> <tr><td>12</td><td>0.620303293</td><td>-0.930704616</td><td>7186</td></tr> </tbody> </table> gem: dabcgfejhmklongpsr gliedsgorkjbpmfnach h0 v38 ifokrnghgapqcebldmj				r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	18	05	0.141995114	-0.600000000	42	06	0.288675135	0.000000000	141	07	0.658686217	-0.602751814	294	08	0.732537816	-0.500000000	696	09	0.254574712	-0.373011580	1272	10	0.020162612	-0.799999999	2493	11	0.642860106	0.824325175	4150	12	0.620303293	-0.930704616	7186
r	mod	theta/pi	#sts																																													
03	0.707106781	0.000000000	2																																													
04	0.500000000	1.000000000	18																																													
05	0.141995114	-0.600000000	42																																													
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08	0.732537816	-0.500000000	696																																													
09	0.254574712	-0.373011580	1272																																													
10	0.020162612	-0.799999999	2493																																													
11	0.642860106	0.824325175	4150																																													
12	0.620303293	-0.930704616	7186																																													
U[3396] edges: 9 blocks: 5 orient: -																																																
U[95] edges: 7 blocks: 1 orient: +																																																
U[157] edges: 7 blocks: 1 orient: +																																																

U[456] edges: 8 blocks: 2 orient: -	U[1533] edges: 9 blocks: 1 orient: +	U[2216] edges: 9 blocks: 1 orient: +	U[2551] edges: 9 blocks: 2 orient: -	U[3063] edges: 9 blocks: 1 orient: -
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$r_{?}^{38}$ #ts(full) 20				
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04 0.500000000 -0.250000000 18		U[131] edges: 7 blocks: 2 orient: -	U[163] edges: 7 blocks: 1 orient: -	U[993] edges: 9 blocks: 1 orient: +
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06 0.500000000 -0.500000000 141		U[1557] edges: 9 blocks: 1 orient: +	U[1707] edges: 9 blocks: 1 orient: +	U[2146] edges: 9 blocks: 1 orient: +
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08 0.079256334 0.625000000 696		U[1624] edges: 9 blocks: 1 orient: -	U[1717] edges: 9 blocks: 1 orient: -	U[2154] edges: 9 blocks: 1 orient: +
09 0.188806943 -0.639541727 1272				
10 0.243769410 -0.691863317 2493		U[1375] edges: 9 blocks: 1 orient: +	U[1531] edges: 9 blocks: 1 orient: +	U[2247] edges: 9 blocks: 1 orient: +
11 0.660083792 -0.498614108 4150				
12 0.664821253 0.372714795 7186		U[2334] edges: 9 blocks: 1 orient: -	U[2854] edges: 9 blocks: 1 orient: -	U[98] edges: 7 blocks: 3 orient: +
gem: dabcefjhimklonqpsr h0 v38 gnedkssorgjcbmhifpa kifnlorgsmapjqcedhb				
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		r mod theta/pi #sts		
U[1246] edges: 9 blocks: 1 orient: +	U[1436] edges: 9 blocks: 1 orient: -	03 0.000000000 0.000000000 4		U[1066] edges: 9 blocks: 2 orient: +
		04 0.923879533 0.500000000 18		
U[1375] edges: 9 blocks: 1 orient: +	U[1531] edges: 9 blocks: 1 orient: +	05 0.000000000 0.000000000 52		U[3187] edges: 9 blocks: 2 orient: -
		06 0.912870929 0.602416382 141		
U[2334] edges: 9 blocks: 1 orient: -	U[2854] edges: 9 blocks: 1 orient: -	07 0.000000000 0.000000000 320		U[3277] edges: 9 blocks: 4 orient: -
		08 0.948417712 0.750000000 680		
U[2337] edges: 9 blocks: 1 orient: -	U[3045] edges: 9 blocks: 2 orient: +	09 0.000000000 0.000000000 1312		U[3335] edges: 9 blocks: 5 orient: +
		10 0.897802733 0.796379978 2405		
U[2494] edges: 9 blocks: 1 orient: -		11 0.000000000 0.000000000 4148		
		12 0.952607267 0.886224103 6882		
U[1075] edges: 9 blocks: 2 orient: +	U[1189] edges: 9 blocks: 3 orient: -	gem: dabcefjhimklon jomedlhgknbfcai h0 v30 lfhniabaoekjgdm		
U[1125] edges: 9 blocks: 3 orient: -	U[2075] edges: 9 blocks: 3 orient: -			
U[1133] edges: 9 blocks: 3 orient: -	U[2524] edges: 9 blocks: 3 orient: -			
U[2540] edges: 9 blocks: 4 orient: -	U[3148] edges: 9 blocks: 4 orient: +			
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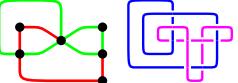
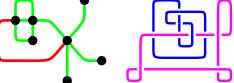
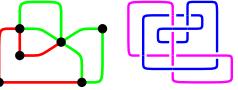
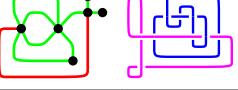
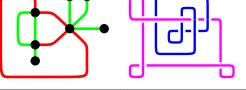
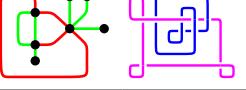
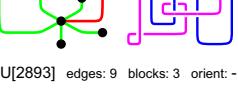
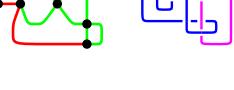
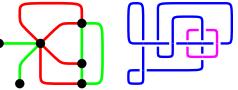
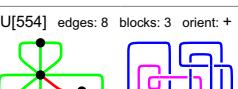
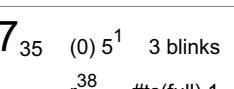
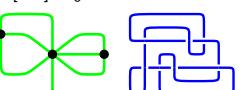
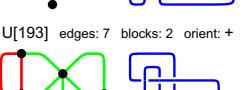
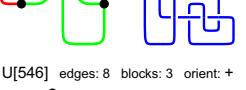
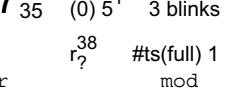
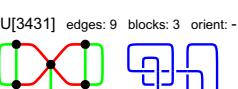
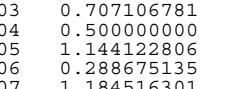
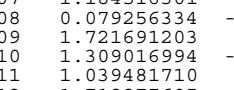
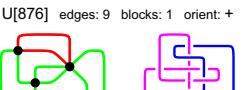
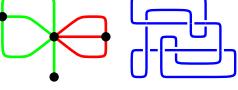
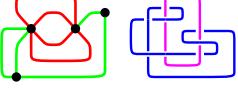
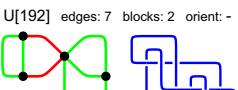
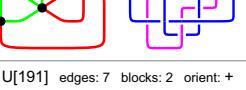
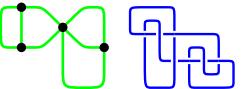
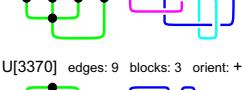
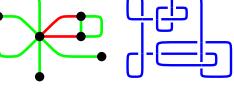
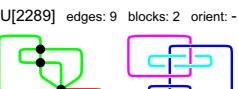
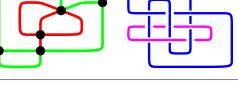
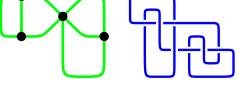
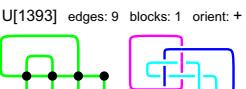
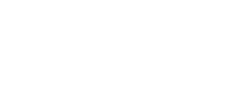
<p>U[3350] edges: 9 blocks: 4 orient: -</p>	<p>7 18 (0) 4^1 33 blinks</p> <p>r_{171}^{30} #ts(full) 34</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.250000000</td><td>4</td></tr> <tr><td>04</td><td>0.707106781</td><td>-0.875000000</td><td>18</td></tr> <tr><td>05</td><td>1.129775731</td><td>0.795931659</td><td>56</td></tr> <tr><td>06</td><td>0.577350269</td><td>0.333333333</td><td>153</td></tr> <tr><td>07</td><td>1.295097283</td><td>-0.170587450</td><td>360</td></tr> <tr><td>08</td><td>1.155762275</td><td>-0.397058248</td><td>772</td></tr> <tr><td>09</td><td>0.880193088</td><td>-0.962426125</td><td>1516</td></tr> <tr><td>10</td><td>1.283438193</td><td>0.734341190</td><td>2797</td></tr> <tr><td>11</td><td>0.693088899</td><td>0.314788264</td><td>4872</td></tr> <tr><td>12</td><td>1.341879750</td><td>-0.183242970</td><td>8118</td></tr> </tbody> </table> <p>gem: dabcgfjhimklon jkmedchgnabiolf h0 v30 feiloadmcnjghkb</p>	r	mod	theta/pi	#sts	03	1.000000000	-0.250000000	4	04	0.707106781	-0.875000000	18	05	1.129775731	0.795931659	56	06	0.577350269	0.333333333	153	07	1.295097283	-0.170587450	360	08	1.155762275	-0.397058248	772	09	0.880193088	-0.962426125	1516	10	1.283438193	0.734341190	2797	11	0.693088899	0.314788264	4872	12	1.341879750	-0.183242970	8118	<p>U[1126] edges: 9 blocks: 3 orient: +</p>	<p>U[2067] edges: 9 blocks: 2 orient: +</p>	<p>U[2206] edges: 9 blocks: 2 orient: +</p>	<p>U[796] edges: 9 blocks: 2 orient: +</p>
r	mod	theta/pi	#sts																																														
03	1.000000000	-0.250000000	4																																														
04	0.707106781	-0.875000000	18																																														
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<p>U[815] edges: 9 blocks: 2 orient: -</p>	<p>U[948] edges: 9 blocks: 1 orient: -</p>	<p>U[1179] edges: 9 blocks: 1 orient: +</p>	<p>U[2092] edges: 9 blocks: 2 orient: -</p>	<p>U[2308] edges: 9 blocks: 3 orient: +</p>	<p>U[145] edges: 7 blocks: 1 orient: +</p>																																												
<p>U[850] edges: 9 blocks: 1 orient: +</p>	<p>U[1081] edges: 9 blocks: 2 orient: -</p>	<p>U[1542] edges: 9 blocks: 1 orient: -</p>	<p>U[2104] edges: 9 blocks: 1 orient: -</p>	<p>U[2360] edges: 9 blocks: 2 orient: +</p>	<p>U[161] edges: 7 blocks: 1 orient: -</p>																																												
<p>U[2399] edges: 9 blocks: 1 orient: -</p>	<p>U[2830] edges: 9 blocks: 1 orient: +</p>	<p>U[3235] edges: 9 blocks: 3 orient: -</p>	<p>U[3339] edges: 9 blocks: 4 orient: +</p>	<p>U[2532] edges: 9 blocks: 3 orient: -</p>	<p>U[2939] edges: 9 blocks: 3 orient: +</p>																																												
<p>U[2807] edges: 9 blocks: 1 orient: +</p>	<p>U[3012] edges: 9 blocks: 3 orient: -</p>	<p>U[3334] edges: 9 blocks: 5 orient: +</p>	<p>U[3381] edges: 9 blocks: 3 orient: +</p>	<p>U[110] edges: 7 blocks: 2 orient: +</p>	<p>U[541] edges: 8 blocks: 1 orient: +</p>																																												
<p>U[3356] edges: 9 blocks: 3 orient: +</p>	<p>7 19 (0) 7^1 10 blinks</p> <p>$r_?$ #ts(full) 1</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.250000000</td><td>18</td></tr> <tr><td>05</td><td>0.601500955</td><td>0.900000000</td><td>34</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>115</td></tr> <tr><td>07</td><td>0.314692123</td><td>-0.928571429</td><td>196</td></tr> <tr><td>08</td><td>0.574025148</td><td>0.375000000</td><td>452</td></tr> <tr><td>09</td><td>1.020721913</td><td>-0.976819061</td><td>708</td></tr> <tr><td>10</td><td>0.361803399</td><td>-0.800000000</td><td>1333</td></tr> <tr><td>11</td><td>0.974417831</td><td>-0.609395372</td><td>1958</td></tr> <tr><td>12</td><td>0.538030402</td><td>-0.011846816</td><td>3254</td></tr> </tbody> </table> <p>gem: dabcgfjhimklonqp jmnedchqgaipbflok h0 v34 pfkonjaelbcihmqgd</p>	r	mod	theta/pi	#sts	03	0.707106781	0.500000000	2	04	0.500000000	0.250000000	18	05	0.601500955	0.900000000	34	06	0.288675135	0.000000000	115	07	0.314692123	-0.928571429	196	08	0.574025148	0.375000000	452	09	1.020721913	-0.976819061	708	10	0.361803399	-0.800000000	1333	11	0.974417831	-0.609395372	1958	12	0.538030402	-0.011846816	3254	<p>U[454] edges: 8 blocks: 2 orient: +</p>	<p>U[706] edges: 8 blocks: 3 orient: +</p>	<p>U[2727] edges: 9 blocks: 3 orient: -</p>	<p>U[602] edges: 8 blocks: 1 orient: -</p>
r	mod	theta/pi	#sts																																														
03	0.707106781	0.500000000	2																																														
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				<p>U[221] edges: 8 blocks: 1 orient: +</p>	<p>U[729] edges: 9 blocks: 3 orient: -</p>																																												
<p>U[3356] edges: 9 blocks: 3 orient: +</p>	<p>7 20 (1) 3^1 12 blinks</p> <p>$r_?$ #ts(full) 8</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.500000000</td><td>4</td></tr> <tr><td>04</td><td>1.000000000</td><td>0.750000000</td><td>24</td></tr> <tr><td>05</td><td>1.000000000</td><td>-0.700000000</td><td>76</td></tr> <tr><td>06</td><td>1.000000000</td><td>-0.333333333</td><td>225</td></tr> <tr><td>07</td><td>1.414213562</td><td>0.400741014</td><td>536</td></tr> <tr><td>08</td><td>1.000000000</td><td>-0.875000000</td><td>1184</td></tr> <tr><td>09</td><td>1.331660018</td><td>-0.417319505</td><td>2344</td></tr> <tr><td>10</td><td>1.618033989</td><td>0.200000000</td><td>4385</td></tr> <tr><td>11</td><td>1.899806432</td><td>0.642499862</td><td>7676</td></tr> <tr><td>12</td><td>2.503587265</td><td>-0.732958126</td><td>12888</td></tr> </tbody> </table> <p>gem: dabcgfjhimklonqp jmnpdkgfoiqgbmaec h0 v34 kqojnpicgladfehm</p>	r	mod	theta/pi	#sts	03	1.000000000	0.500000000	4	04	1.000000000	0.750000000	24	05	1.000000000	-0.700000000	76	06	1.000000000	-0.333333333	225	07	1.414213562	0.400741014	536	08	1.000000000	-0.875000000	1184	09	1.331660018	-0.417319505	2344	10	1.618033989	0.200000000	4385	11	1.899806432	0.642499862	7676	12	2.503587265	-0.732958126	12888	<p>U[111] edges: 7 blocks: 1 orient: +</p>	<p>U[1694] edges: 9 blocks: 2 orient: +</p>	<p>U[1831] edges: 9 blocks: 1 orient: +</p>	<p>U[1060] edges: 9 blocks: 2 orient: +</p>
r	mod	theta/pi	#sts																																														
03	1.000000000	0.500000000	4																																														
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				<p>U[1122] edges: 9 blocks: 1 orient: +</p>	<p>U[2103] edges: 9 blocks: 1 orient: -</p>																																												

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U[2210]	edges: 9	blocks: 2	orient: -	U[2459]	edges: 9	blocks: 1	orient: -	04 0.707106781 -0.1250000000 24	U[1061]	edges: 9	blocks: 2	orient: +
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U[1064]	edges: 9	blocks: 2	orient: +	U[1691]	edges: 9	blocks: 2	orient: -	06 1.154700538 0.0000000000 225	U[2710]	edges: 9	blocks: 1	orient: +
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U[3083]	edges: 9	blocks: 2	orient: +	U[3378]	edges: 9	blocks: 3	orient: +	12 1.795352610 -0.597538068 12888	U[2465]	edges: 9	blocks: 1	orient: -
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U[3361]	edges: 9	blocks: 3	orient: +	U[3383]	edges: 9	blocks: 3	orient: +	7 22 (0) 7 ¹ 23 blinks	U[1061]	edges: 9	blocks: 2	orient: +
								$r_{?}^{42}$ #ts(full) 3				
U[3368]	edges: 9	blocks: 4	orient: -	U[3386]	edges: 9	blocks: 2	orient: +	r mod theta/pi #sts	U[1527]	edges: 9	blocks: 1	orient: +
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U[114]	edges: 7	blocks: 1	orient: +	U[891]	edges: 9	blocks: 1	orient: -	04 0.5000000000 0.2500000000 10	U[1899]	edges: 9	blocks: 1	orient: -
								05 0.659357578 -0.965568810 22				
U[146]	edges: 7	blocks: 1	orient: -	U[953]	edges: 9	blocks: 1	orient: -	06 0.288675135 0.0000000000 55	U[1527]	edges: 9	blocks: 1	orient: +
								07 0.252363488 -0.928571429 106				
U[826]	edges: 9	blocks: 1	orient: +	U[1022]	edges: 9	blocks: 1	orient: -	08 0.191341716 0.3750000000 208	U[1899]	edges: 9	blocks: 1	orient: -
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U[2184]	edges: 9	blocks: 1	orient: +	U[2420]	edges: 9	blocks: 1	orient: -	10 0.434752416 0.931317619 601	U[1527]	edges: 9	blocks: 1	orient: +
								11 0.777229753 -0.884988230 934				
U[2254]	edges: 9	blocks: 1	orient: +	U[2548]	edges: 9	blocks: 2	orient: +	12 0.734490785 -0.169842373 1450	U[1899]	edges: 9	blocks: 1	orient: -
								gem: dabcefghijklpnorgtsvu jktodnugvarifmespbqchl h0 v44 rulfsicndtjgoqmbhvækpa				
U[2345]	edges: 9	blocks: 1	orient: -	U[3069]	edges: 9	blocks: 1	orient: +	7 22 (0) 7 ¹ 23 blinks	U[1527]	edges: 9	blocks: 1	orient: +
								$r_{?}^{42}$ #ts(full) 3				
U[2126]	edges: 9	blocks: 1	orient: -	U[2236]	edges: 9	blocks: 1	orient: +	r mod theta/pi #sts	U[1899]	edges: 9	blocks: 1	orient: -
								03 0.707106781 0.5000000000 2				
U[2195]	edges: 9	blocks: 1	orient: -	U[2242]	edges: 9	blocks: 1	orient: -	04 0.5000000000 0.2500000000 10	U[1527]	edges: 9	blocks: 1	orient: +
								05 0.659357578 -0.965568810 22				
U[2210]	edges: 9	blocks: 2	orient: -	U[2459]	edges: 9	blocks: 1	orient: -	06 0.288675135 0.0000000000 55	U[1899]	edges: 9	blocks: 1	orient: -
								07 0.252363488 -0.928571429 106				
U[1064]	edges: 9	blocks: 2	orient: +	U[1691]	edges: 9	blocks: 2	orient: -	08 0.191341716 0.3750000000 208	U[1527]	edges: 9	blocks: 1	orient: +
								09 0.386015923 0.209935031 352				
U[1086]	edges: 9	blocks: 2	orient: -	U[1914]	edges: 9	blocks: 1	orient: +	10 0.434752416 0.931317619 601	U[1899]	edges: 9	blocks: 1	orient: -
								11 0.777229753 -0.884988230 934				
U[1118]	edges: 9	blocks: 1	orient: -	U[2090]	edges: 9	blocks: 2	orient: -	12 0.734490785 -0.169842373 1450	U[1527]	edges: 9	blocks: 1	orient: +
								gem: dabcefghijklpnorgtsvu jktodnugvarifmespbqchl h0 v44 rulfsicndtjgoqmbhvækpa				
U[3083]	edges: 9	blocks: 2	orient: +	U[3378]	edges: 9	blocks: 3	orient: +	7 22 (0) 7 ¹ 23 blinks	U[1061]	edges: 9	blocks: 2	orient: +
								$r_{?}^{42}$ #ts(full) 3				
U[3361]	edges: 9	blocks: 3	orient: +	U[3383]	edges: 9	blocks: 3	orient: +	r mod theta/pi #sts	U[1527]	edges: 9	blocks: 1	orient: +
								03 0.707106781 0.5000000000 2				
U[3368]	edges: 9	blocks: 4	orient: -	U[3386]	edges: 9	blocks: 2	orient: +	04 0.5000000000 0.2500000000 10	U[1899]	edges: 9	blocks: 1	orient: -
								05 0.659357578 -0.965568810 22				
U[114]	edges: 7	blocks: 1	orient: +	U[891]	edges: 9	blocks: 1	orient: -	06 0.288675135 0.0000000000 55	U[1527]	edges: 9	blocks: 1	orient: +
								07 0.252363488 -0.928571429 106				
U[146]	edges: 7	blocks: 1	orient: -	U[953]	edges: 9	blocks: 1	orient: -	08 0.191341716 0.3750000000 208	U[1899]	edges: 9	blocks: 1	orient: -
								09 0.386015923 0.209935031 352				
U[826]	edges: 9	blocks: 1	orient: +	U[1022]	edges: 9	blocks: 1	orient: -	10 0.434752416 0.931317619 601	U[1527]	edges: 9	blocks: 1	orient: +
								11 0.777229753 -0.884988230 934				
U[2184]	edges: 9	blocks: 1	orient: +	U[2420]	edges: 9	blocks: 1	orient: -	12 0.734490785 -0.169842373 1450	U[1899]	edges: 9	blocks: 1	orient: -
								gem: dabcefghijklpnorgtsvu jktodnugvarifmespbqchl h0 v44 rulfsicndtjgoqmbhvækpa				
U[2254]	edges: 9	blocks: 1	orient: +	U[2548]	edges: 9	blocks: 2	orient: +	7 22 (0) 7 ¹ 23 blinks	U[1527]	edges: 9	blocks: 1	orient: +
								$r_{?}^{42}$ #ts(full) 3				
U[2345]	edges: 9	blocks: 1	orient: -	U[3069]	edges: 9	blocks: 1	orient: +	r mod theta/pi #sts	U[1527]	edges: 9	blocks: 1	orient: +
								03 0.707106781 0.5000000000 2				
U[2126]	edges: 9	blocks: 1	orient: -	U[2236]	edges: 9	blocks: 1	orient: +	04 0.5000000000 0.2500000000 10	U[1899]	edges: 9	blocks: 1	orient: -
								05 0.659357578 -0.965568810 22				
U[2195]	edges: 9	blocks: 1	orient: -	U[2242]	edges: 9	blocks: 1	orient: -	06 0.288675135 0.00				

7₂₃	(0) 3^1	21 blinks	r_2^{38} #ts(full) 1	mod theta/pi #sts	U[116] edges: 7 blocks: 1 orient: + U[222] edges: 8 blocks: 1 orient: + U[599] edges: 8 blocks: 1 orient: -	U[148] edges: 7 blocks: 1 orient: - U[243] edges: 8 blocks: 2 orient: + U[1036] edges: 9 blocks: 1 orient: -	U[178] edges: 7 blocks: 3 orient: + U[403] edges: 8 blocks: 2 orient: - U[1139] edges: 9 blocks: 2 orient: +	U[1171] edges: 9 blocks: 2 orient: + U[1529] edges: 9 blocks: 1 orient: + U[2220] edges: 9 blocks: 1 orient: - U[2743] edges: 9 blocks: 2 orient: +	U[1439] edges: 9 blocks: 1 orient: + U[1701] edges: 9 blocks: 1 orient: + U[2365] edges: 9 blocks: 1 orient: + U[2797] edges: 9 blocks: 2 orient: +	U[1495] edges: 9 blocks: 2 orient: - U[1995] edges: 9 blocks: 1 orient: - U[2588] edges: 9 blocks: 2 orient: + U[3103] edges: 9 blocks: 1 orient: -	U[127] edges: 7 blocks: 3 orient: + U[603] edges: 8 blocks: 1 orient: - U[238] edges: 8 blocks: 2 orient: + U[937] edges: 9 blocks: 2 orient: +	U[539] edges: 8 blocks: 1 orient: + U[3286] edges: 9 blocks: 3 orient: - U[132] edges: 7 blocks: 2 orient: + U[1030] edges: 9 blocks: 1 orient: + U[1993] edges: 9 blocks: 1 orient: +	gem: cabfdeighijknm imdculgfkabnejh h0 v28 gnejhblcdimakf
7₂₄	(0) 3^1	6 blinks	r_2^{38} #ts(full) 269	mod theta/pi #sts	U[127] edges: 7 blocks: 3 orient: + U[603] edges: 8 blocks: 1 orient: -	U[238] edges: 8 blocks: 2 orient: + U[937] edges: 9 blocks: 2 orient: +	U[132] edges: 7 blocks: 2 orient: + U[1030] edges: 9 blocks: 1 orient: + U[1993] edges: 9 blocks: 1 orient: +	U[132] edges: 7 blocks: 2 orient: + U[1030] edges: 9 blocks: 1 orient: + U[1993] edges: 9 blocks: 1 orient: +	U[139] edges: 7 blocks: 1 orient: + U[1225] edges: 9 blocks: 2 orient: + U[2008] edges: 9 blocks: 1 orient: +	U[401] edges: 8 blocks: 2 orient: + U[1669] edges: 9 blocks: 1 orient: - U[2546] edges: 9 blocks: 2 orient: -	U[2636] edges: 9 blocks: 2 orient: - U[138] edges: 7 blocks: 1 orient: + U[1019] edges: 9 blocks: 1 orient: -	gem: dabcefjhimklongpsr jsmldpngqabechforik h0 v38 rgphkibofejaqmcnsld	
7₂₅	(0)	12 blinks	r_2^{40} #ts(full) 1	mod theta/pi #sts	U[139] edges: 7 blocks: 1 orient: + U[1225] edges: 9 blocks: 2 orient: + U[2008] edges: 9 blocks: 1 orient: +	U[401] edges: 8 blocks: 2 orient: + U[1669] edges: 9 blocks: 1 orient: - U[2546] edges: 9 blocks: 2 orient: -	U[2636] edges: 9 blocks: 2 orient: - U[138] edges: 7 blocks: 1 orient: + U[1019] edges: 9 blocks: 1 orient: -	U[2745] edges: 9 blocks: 2 orient: - U[138] edges: 7 blocks: 1 orient: + U[1019] edges: 9 blocks: 1 orient: -	U[3058] edges: 9 blocks: 2 orient: + U[138] edges: 7 blocks: 1 orient: + U[1019] edges: 9 blocks: 1 orient: -	U[1011] edges: 9 blocks: 1 orient: - U[1613] edges: 9 blocks: 1 orient: -	gem: dabcefjhimklongpsr jsmldpngqabechforik h0 v40 qgslohbtjenjdcriapkfm		
7₂₆	(0) 7^1	10 blinks	r_2^{34} #ts(full) 1	mod theta/pi #sts	U[138] edges: 7 blocks: 1 orient: + U[1019] edges: 9 blocks: 1 orient: -	U[888] edges: 9 blocks: 1 orient: + U[1025] edges: 9 blocks: 1 orient: +	U[138] edges: 7 blocks: 1 orient: + U[1019] edges: 9 blocks: 1 orient: -	U[888] edges: 9 blocks: 1 orient: + U[1025] edges: 9 blocks: 1 orient: +	U[1011] edges: 9 blocks: 1 orient: - U[1613] edges: 9 blocks: 1 orient: -	gem: dabcefjhimklongpsr jsmldpngqabechforik h0 v34 lfqhnpmcojgdekbi			

U[1662] edges: 9 blocks: 1 orient: -	U[3126] edges: 9 blocks: 1 orient: +	7 27 (0) $r_{?}^{32}$ #ts(full) 3			U[144] edges: 7 blocks: 1 orient: +
U[1864] edges: 9 blocks: 1 orient: +		r mod theta/pi #sts			U[803] edges: 9 blocks: 2 orient: +
U[1992] edges: 9 blocks: 1 orient: -		03 0.707106781 0.000000000 4			U[934] edges: 9 blocks: 2 orient: +
U[1050] edges: 9 blocks: 2 orient: -	U[1535] edges: 9 blocks: 1 orient: -	04 0.500000000 0.000000000 24			U[2408] edges: 9 blocks: 1 orient: +
U[1467] edges: 9 blocks: 1 orient: -	U[1574] edges: 9 blocks: 2 orient: +	05 0.371748034 -0.800000000 76			U[2131] edges: 9 blocks: 1 orient: -
U[1472] edges: 9 blocks: 1 orient: +	U[1742] edges: 9 blocks: 1 orient: +	06 0.288675135 0.000000000 225			U[2440] edges: 9 blocks: 1 orient: +
U[2762] edges: 9 blocks: 1 orient: -		07 0.591009048 -0.043598157 536			U[2235] edges: 9 blocks: 1 orient: +
U[2801] edges: 9 blocks: 2 orient: -		08 1.115221249 0.000000000 1184			U[2441] edges: 9 blocks: 1 orient: +
U[2871] edges: 9 blocks: 1 orient: +		09 0.367122599 -0.253479442 2344			U[160] edges: 7 blocks: 1 orient: +
U[1239] edges: 9 blocks: 1 orient: -	U[1915] edges: 9 blocks: 1 orient: -	10 0.138196601 -0.400000000 4385			U[1087] edges: 9 blocks: 2 orient: +
U[1881] edges: 9 blocks: 2 orient: +	U[1964] edges: 9 blocks: 1 orient: +	11 0.300972524 -0.699909199 7676			U[945] edges: 9 blocks: 1 orient: +
U[1892] edges: 9 blocks: 1 orient: +	U[2352] edges: 9 blocks: 2 orient: -	12 0.809630852 -0.072579519 12888			U[1113] edges: 9 blocks: 1 orient: -
U[2931] edges: 9 blocks: 2 orient: +	U[3407] edges: 9 blocks: 2 orient: +	7 28 (0) 4¹ $r_{?}^{36}$ #ts(full) 1			U[591] edges: 9 blocks: 1 orient: -
U[3137] edges: 9 blocks: 2 orient: +		r mod theta/pi #sts			U[1120] edges: 9 blocks: 1 orient: +
U[3345] edges: 9 blocks: 3 orient: -		03 1.000000000 0.250000000 4			U[2473] edges: 9 blocks: 1 orient: +
		04 0.707106781 -0.625000000 26			U[2667] edges: 9 blocks: 2 orient: -
		05 1.508772084 -0.384341190 80			U[2164] edges: 9 blocks: 1 orient: -
		06 0.577350269 0.333333333 249			U[2715] edges: 9 blocks: 1 orient: -
		07 1.839930056 0.796784612 580			U[2648] edges: 9 blocks: 1 orient: -
		08 0.463104841 -0.914916382 1320			U[2649] edges: 9 blocks: 1 orient: -
		09 2.078387002 0.099431785 2572			U[2716] edges: 9 blocks: 1 orient: -
		10 1.740453851 0.290344466 4905			U[162] edges: 7 blocks: 1 orient: +
		11 1.180525788 -0.657529063 8488			U[174] edges: 7 blocks: 1 orient: +
		12 2.132572276 -0.434086807 14442			U[1005] edges: 9 blocks: 1 orient: +
		gem: dabcefjihilmknmpo jioedclgnaphkbfm h0 v32 pjlmckoafbiedgdnh			U[1005] edges: 9 blocks: 1 orient: +
		7 29 (0) $r_{?}^{46}$ #ts(full) 2			
		r mod theta/pi #sts			
		03 0.707106781 0.000000000 2			
		04 0.500000000 1.000000000 18			
		05 0.634136124 0.757983330 34			
		06 0.288675135 0.000000000 115			
		07 0.851607205 -0.057318500 196			
		08 0.191341716 0.500000000 452			
		09 0.854483206 0.777972834 708			
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		12 0.554460013 -0.642262175 3254			
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U[1014] edges: 9 blocks: 1 orient: +	U[1553] edges: 9 blocks: 1 orient: -	U[1670] edges: 9 blocks: 1 orient: +	U[2162] edges: 9 blocks: 1 orient: +	U[2793] edges: 9 blocks: 1 orient: +
U[1242] edges: 9 blocks: 1 orient: -	U[1618] edges: 9 blocks: 1 orient: +	U[1713] edges: 9 blocks: 1 orient: -	U[2260] edges: 9 blocks: 1 orient: +	U[2848] edges: 9 blocks: 1 orient: +
U[1377] edges: 9 blocks: 1 orient: +	U[1628] edges: 9 blocks: 1 orient: +	U[2123] edges: 9 blocks: 1 orient: -	U[2638] edges: 9 blocks: 2 orient: -	U[3050] edges: 9 blocks: 2 orient: -
7₃₀ (0) 5 ¹ 8 blinks		U[167] edges: 7 blocks: 4 orient: +	U[2074] edges: 9 blocks: 3 orient: -	U[3201] edges: 9 blocks: 2 orient: -
r ²⁸ 203 #ts(full) 1				
r mod theta/pi #sts		U[735] edges: 8 blocks: 5 orient: -	U[2304] edges: 9 blocks: 3 orient: +	U[3399] edges: 9 blocks: 5 orient: +
03 0.707106781 1.000000000 4				
04 0.500000000 0.000000000 18		U[2054] edges: 9 blocks: 4 orient: +	U[2309] edges: 9 blocks: 3 orient: +	
05 0.707106781 0.500000000 52				
06 0.288675135 1.000000000 141		U[169] edges: 7 blocks: 2 orient: +	U[2106] edges: 9 blocks: 1 orient: -	U[2592] edges: 9 blocks: 2 orient: -
07 0.185985892 0.714285714 320				
08 0.461939766 0.000000000 680		U[846] edges: 9 blocks: 1 orient: +	U[2189] edges: 9 blocks: 1 orient: -	U[3309] edges: 9 blocks: 3 orient: +
09 0.806039450 0.522130408 1312				
10 0.500000000 1.000000000 2405		U[1092] edges: 9 blocks: 2 orient: -	U[2387] edges: 9 blocks: 1 orient: +	U[3380] edges: 9 blocks: 3 orient: +
11 0.607008531 -0.143812895 4148				
12 0.714957726 0.404488201 6882		U[184] edges: 7 blocks: 6 orient: +	U[223] edges: 8 blocks: 1 orient: +	U[555] edges: 8 blocks: 3 orient: -
gem: dabcefghijklmn jlnedchgmakbf h0 v28				
7₃₁ (0) 4 ¹ 9 blinks		U[194] edges: 7 blocks: 5 orient: +	U[320] edges: 8 blocks: 2 orient: -	U[595] edges: 8 blocks: 2 orient: +
r ³⁴ ? #ts(full) 10				
r mod theta/pi #sts		U[196] edges: 7 blocks: 4 orient: +	U[548] edges: 8 blocks: 3 orient: -	U[646] edges: 8 blocks: 3 orient: -
03 1.000000000 -0.250000000 4				
04 0.707106781 0.625000000 46		U[192] edges: 7 blocks: 6 orient: +	U[223] edges: 8 blocks: 1 orient: +	U[555] edges: 8 blocks: 3 orient: -
05 1.810080993 0.160914604 152				
06 0.577350269 -0.333333333 623		U[320] edges: 8 blocks: 2 orient: -	U[595] edges: 8 blocks: 2 orient: +	
07 1.733569223 0.417027963 1580		U[194] edges: 7 blocks: 5 orient: +	U[320] edges: 8 blocks: 2 orient: -	U[595] edges: 8 blocks: 2 orient: +
08 1.778823646 -0.028194166 4308				
09 0.852704746 0.684332450 9084		U[196] edges: 7 blocks: 4 orient: +	U[548] edges: 8 blocks: 3 orient: -	
10 2.598612400 0.192398126 19809				
11 0.888970886 -0.305045608 36784		U[192] edges: 7 blocks: 6 orient: +	U[223] edges: 8 blocks: 1 orient: +	U[555] edges: 8 blocks: 3 orient: -
12 2.294502752 0.403355052 69610				
gem: dabcefghijklmnpq jnqedchqkaopbmilf h0 v34 lqhmkpncbejgdafoi		U[194] edges: 7 blocks: 5 orient: +	U[320] edges: 8 blocks: 2 orient: -	U[595] edges: 8 blocks: 2 orient: +
7₃₂ (0) 7 ¹ 28 blinks		U[196] edges: 7 blocks: 4 orient: +	U[548] edges: 8 blocks: 3 orient: -	U[646] edges: 8 blocks: 3 orient: -
r ²⁰ 5 #ts(full) 3				
r mod theta/pi #sts		U[192] edges: 7 blocks: 6 orient: +	U[223] edges: 8 blocks: 1 orient: +	U[555] edges: 8 blocks: 3 orient: -
03 0.707106781 -0.500000000 4				
04 0.500000000 0.750000000 16		U[194] edges: 7 blocks: 5 orient: +	U[320] edges: 8 blocks: 2 orient: -	U[595] edges: 8 blocks: 2 orient: +
05 0.601500955 0.300000000 44				
06 0.288675135 0.000000000 107		U[196] edges: 7 blocks: 4 orient: +	U[548] edges: 8 blocks: 3 orient: -	
07 0.000000000 0.000000000 224				
08 0.191341716 -0.875000000 432		U[192] edges: 7 blocks: 6 orient: +	U[223] edges: 8 blocks: 1 orient: +	U[555] edges: 8 blocks: 3 orient: -
09 0.464242827 0.833333333 768				
10 0.361803399 0.400000000 1293		U[194] edges: 7 blocks: 5 orient: +	U[320] edges: 8 blocks: 2 orient: -	U[595] edges: 8 blocks: 2 orient: +
11 0.322252701 -0.318181818 2068				
12 0.394337567 -0.750000000 3184		U[196] edges: 7 blocks: 4 orient: +	U[548] edges: 8 blocks: 3 orient: -	
gem: cabfdehgji hjdcbifage h0 v20 jheicbafdg				
U[692] edges: 8 blocks: 5 orient: +	U[710] edges: 8 blocks: 3 orient: +	U[926] edges: 9 blocks: 2 orient: -	U[1484] edges: 9 blocks: 4 orient: -	U[1956] edges: 9 blocks: 5 orient: -
U[697] edges: 8 blocks: 5 orient: +	U[764] edges: 8 blocks: 7 orient: +	U[1045] edges: 9 blocks: 2 orient: -	U[1731] edges: 9 blocks: 1 orient: -	U[2302] edges: 9 blocks: 4 orient: +
U[704] edges: 8 blocks: 4 orient: +	U[801] edges: 9 blocks: 2 orient: -	U[1316] edges: 9 blocks: 5 orient: -	U[1753] edges: 9 blocks: 1 orient: -	U[2437] edges: 9 blocks: 1 orient: +

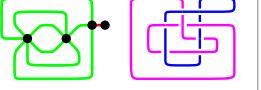
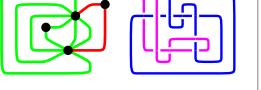
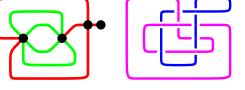
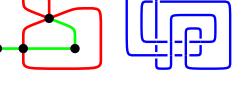
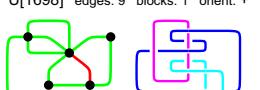
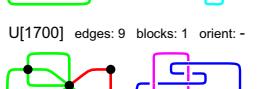
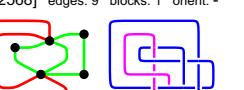
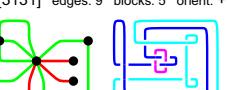
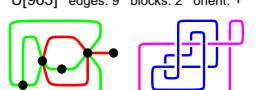
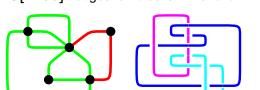
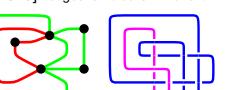
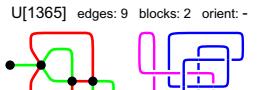
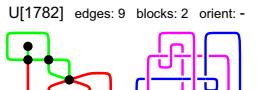
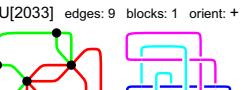
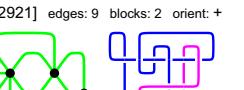
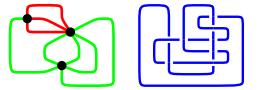
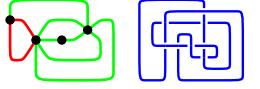
<p>U[2764] edges: 9 blocks: 1 orient: + U[3348] edges: 9 blocks: 4 orient: +</p>   <p>U[2976] edges: 9 blocks: 1 orient: +</p>   <p>U[3025] edges: 9 blocks: 3 orient: -</p>  	<p>7₃₃ (0) 4¹ 8 blinks</p> <p>$r_{?}^{28}$ #ts(full) 18</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.250000000</td><td>4</td></tr> <tr><td>04</td><td>0.707106781</td><td>-0.125000000</td><td>16</td></tr> <tr><td>05</td><td>1.376381920</td><td>-0.250000000</td><td>44</td></tr> <tr><td>06</td><td>0.577350269</td><td>-0.333333333</td><td>107</td></tr> <tr><td>07</td><td>1.010597060</td><td>0.903089436</td><td>224</td></tr> <tr><td>08</td><td>1.118033989</td><td>0.835083618</td><td>432</td></tr> <tr><td>09</td><td>0.582755617</td><td>0.179645441</td><td>768</td></tr> <tr><td>10</td><td>1.447213596</td><td>0.000000000</td><td>1293</td></tr> <tr><td>11</td><td>0.550656043</td><td>-0.121512295</td><td>2068</td></tr> <tr><td>12</td><td>1.080123450</td><td>-0.935518859</td><td>3184</td></tr> </tbody> </table> <p>gem: dabchefgjilknnm jnfedcmihlgakb h0 v28 gfnlkmadcejhbi</p>	r	mod	theta/pi	#sts	03	1.000000000	0.250000000	4	04	0.707106781	-0.125000000	16	05	1.376381920	-0.250000000	44	06	0.577350269	-0.333333333	107	07	1.010597060	0.903089436	224	08	1.118033989	0.835083618	432	09	0.582755617	0.179645441	768	10	1.447213596	0.000000000	1293	11	0.550656043	-0.121512295	2068	12	1.080123450	-0.935518859	3184	<p>U[185] edges: 7 blocks: 4 orient: +</p>   <p>U[910] edges: 9 blocks: 1 orient: +</p>   <p>U[2513] edges: 9 blocks: 5 orient: -</p>  
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<p>U[2594] edges: 9 blocks: 4 orient: -</p>   <p>U[2896] edges: 9 blocks: 3 orient: +</p>   <p>U[2605] edges: 9 blocks: 4 orient: -</p>   <p>U[2928] edges: 9 blocks: 2 orient: +</p>   <p>U[2893] edges: 9 blocks: 3 orient: -</p>  	<p>7₃₄ (0) 7¹ 5 blinks</p> <p>$r_{?}^{38}$ #ts(full) 333</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>-0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.250000000</td><td>18</td></tr> <tr><td>05</td><td>1.364479168</td><td>0.983429989</td><td>34</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>115</td></tr> <tr><td>07</td><td>1.274162392</td><td>0.500000000</td><td>196</td></tr> <tr><td>08</td><td>1.115221249</td><td>-0.375000000</td><td>452</td></tr> <tr><td>09</td><td>0.888702314</td><td>-0.116447089</td><td>708</td></tr> <tr><td>10</td><td>1.861803399</td><td>-0.966859979</td><td>1333</td></tr> <tr><td>11</td><td>0.472347391</td><td>0.103674315</td><td>1958</td></tr> <tr><td>12</td><td>1.718877606</td><td>0.380073469</td><td>3254</td></tr> </tbody> </table> <p>gem: dabcgefjhimklongpsr jiredpnglasbhmfockg h0 v38 ngjmalrskciqoedhfbp</p>	r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	2	04	0.500000000	-0.250000000	18	05	1.364479168	0.983429989	34	06	0.288675135	0.000000000	115	07	1.274162392	0.500000000	196	08	1.115221249	-0.375000000	452	09	0.888702314	-0.116447089	708	10	1.861803399	-0.966859979	1333	11	0.472347391	0.103674315	1958	12	1.718877606	0.380073469	3254	<p>U[188] edges: 7 blocks: 3 orient: +</p>   <p>U[193] edges: 7 blocks: 2 orient: +</p>   <p>U[546] edges: 8 blocks: 3 orient: +</p>  
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<p>U[554] edges: 8 blocks: 3 orient: +</p>   <p>U[3431] edges: 9 blocks: 3 orient: -</p>   <p>U[3431] edges: 9 blocks: 3 orient: -</p>  	<p>7₃₅ (0) 5¹ 3 blinks</p> <p>$r_{?}^{38}$ #ts(full) 1</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.500000000</td><td>18</td></tr> <tr><td>05</td><td>1.144122806</td><td>0.100000000</td><td>34</td></tr> <tr><td>06</td><td>0.288675135</td><td>1.000000000</td><td>115</td></tr> <tr><td>07</td><td>1.184516301</td><td>0.322487773</td><td>196</td></tr> <tr><td>08</td><td>0.079256334</td><td>-0.250000000</td><td>452</td></tr> <tr><td>09</td><td>1.721691203</td><td>0.258309518</td><td>708</td></tr> <tr><td>10</td><td>1.309016994</td><td>-0.200000000</td><td>1333</td></tr> <tr><td>11</td><td>1.039481710</td><td>0.146411716</td><td>1958</td></tr> <tr><td>12</td><td>1.718877605</td><td>-0.369926531</td><td>3254</td></tr> </tbody> </table> <p>gem: dabcgefjhimklpnosqr jrqodnmglafshkecpbi h0 v38 rhosbmpeakjqflcgnd</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	0.500000000	18	05	1.144122806	0.100000000	34	06	0.288675135	1.000000000	115	07	1.184516301	0.322487773	196	08	0.079256334	-0.250000000	452	09	1.721691203	0.258309518	708	10	1.309016994	-0.200000000	1333	11	1.039481710	0.146411716	1958	12	1.718877605	-0.369926531	3254	<p>U[189] edges: 7 blocks: 3 orient: +</p>   <p>U[2287] edges: 9 blocks: 2 orient: +</p>   <p>U[3427] edges: 9 blocks: 4 orient: +</p>  
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r	mod	theta/pi	#sts																																											
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 UI[3375] edges: 9 blocks: 3 orient: + UI[3405] edges: 9 blocks: 2 orient: + UI[3429] edges: 9 blocks: 3 orient: -	7 r_{230}^{28} #ts(full) 119 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>-0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.250000000</td><td>3</td></tr> <tr><td>05</td><td>0.601500955</td><td>-0.500000000</td><td>4</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>5</td></tr> <tr><td>07</td><td>0.707106781</td><td>-0.214285714</td><td>6</td></tr> <tr><td>08</td><td>0.191341716</td><td>-0.375000000</td><td>7</td></tr> <tr><td>09</td><td>0.464242827</td><td>0.166666667</td><td>8</td></tr> <tr><td>10</td><td>0.361803399</td><td>0.000000000</td><td>9</td></tr> <tr><td>11</td><td>0.322252701</td><td>0.409090909</td><td>10</td></tr> <tr><td>12</td><td>0.394337567</td><td>0.250000000</td><td>11</td></tr> </tbody> </table> <p>gem: dabcgfjhilknm jmfedckgnahbli h0 v28 mhlgckdbanjeif</p>	r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	2	04	0.500000000	-0.250000000	3	05	0.601500955	-0.500000000	4	06	0.288675135	0.000000000	5	07	0.707106781	-0.214285714	6	08	0.191341716	-0.375000000	7	09	0.464242827	0.166666667	8	10	0.361803399	0.000000000	9	11	0.322252701	0.409090909	10	12	0.394337567	0.250000000	11	 UI[198] edges: 7 blocks: 7 orient: + UI[637] edges: 8 blocks: 4 orient: + UI[640] edges: 8 blocks: 3 orient: +	8 $r_?$ $r_{?}^{38}$ #ts(full) 15 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.414213562</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>1.000000000</td><td>0.000000000</td><td>136</td></tr> <tr><td>05</td><td>0.743496069</td><td>0.000000000</td><td>524</td></tr> <tr><td>06</td><td>0.577350269</td><td>0.333333333</td><td>3227</td></tr> <tr><td>07</td><td>1.379945589</td><td>0.201069307</td><td>10304</td></tr> <tr><td>08</td><td>1.306562965</td><td>0.000000000</td><td>35952</td></tr> <tr><td>09</td><td>1.083524966</td><td>-0.160953454</td><td>94368</td></tr> <tr><td>10</td><td>0.447213595</td><td>-0.400000000</td><td>247293</td></tr> <tr><td>11</td><td>0.515823949</td><td>0.081029626</td><td>556468</td></tr> <tr><td>12</td><td>0.869472866</td><td>-0.195021719</td><td>1223704</td></tr> </tbody> </table> <p>gem: dabchefgkijmlongpsr hkoedrimplbgajsnfqc h0 v38 ljrnmocshbakpqfedgi</p>	r	mod	theta/pi	#sts	03	1.414213562	0.000000000	4	04	1.000000000	0.000000000	136	05	0.743496069	0.000000000	524	06	0.577350269	0.333333333	3227	07	1.379945589	0.201069307	10304	08	1.306562965	0.000000000	35952	09	1.083524966	-0.160953454	94368	10	0.447213595	-0.400000000	247293	11	0.515823949	0.081029626	556468	12	0.869472866	-0.195021719	1223704	 UI[199] edges: 8 blocks: 1 orient: +
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04	0.500000000	0.000000000	54				
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07	0.231920614	-0.571428571	2664				
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10	0.638196601	-0.691863317	45445				
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	mkegcionfbjajpdh						
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U[2167]	edges: 9	blocks: 1	orient: +	U[2401]	edges: 9	blocks: 1	orient: +
U[1580]	edges: 9	blocks: 1	orient: -	U[1821]	edges: 9	blocks: 2	orient: -
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U[2207]	edges: 9	blocks: 1	orient: -	U[2498]	edges: 9	blocks: 1	orient: +
U[1619]	edges: 9	blocks: 1	orient: -	U[2006]	edges: 9	blocks: 2	orient: +
U[2006]	edges: 9	blocks: 2	orient: +	U[2128]	edges: 9	blocks: 1	orient: +
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U[2843]	edges: 9	blocks: 3	orient: +	U[3001]	edges: 9	blocks: 1	orient: +
U[3001]	edges: 9	blocks: 1	orient: +	U[3088]	edges: 9	blocks: 1	orient: -
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U[3056]	edges: 9	blocks: 2	orient: +	U[3091]	edges: 9	blocks: 1	orient: +
U[3091]	edges: 9	blocks: 1	orient: +	U[3358]	edges: 9	blocks: 2	orient: -
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U[2954]	edges: 9	blocks: 1	orient: +	U[3079]	edges: 9	blocks: 2	orient: +
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<p>8₁₉ (1) 1 blinks</p> <p>$r_?^{52}$ #ts(partial) 697</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>66</td></tr> <tr><td>05</td><td>0.618033989</td><td>0.800000000</td><td>130</td></tr> <tr><td>06</td><td>0.000000000</td><td>0.000000000</td><td>859</td></tr> <tr><td>07</td><td>0.198062264</td><td>-0.285714286</td><td>1588</td></tr> <tr><td>08</td><td>0.414213562</td><td>-0.250000000</td><td>5684</td></tr> <tr><td>09</td><td>0.446475588</td><td>-0.166666667</td><td>9780</td></tr> <tr><td>10</td><td>0.381966011</td><td>-0.800000000</td><td>25405</td></tr> <tr><td>11</td><td>0.701665178</td><td>0.454545455</td><td>41030</td></tr> <tr><td>12</td><td>0.517638090</td><td>0.250000000</td><td>87686</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmqopsrvtxwzy krvedujzhyogwanflbxspcmtgj h0 v52 utfnpkbxecjsdlihqzgayvrwm</p>	r	mod	theta/pi	#sts	03	1.000000000	0.000000000	2	04	0.000000000	0.000000000	66	05	0.618033989	0.800000000	130	06	0.000000000	0.000000000	859	07	0.198062264	-0.285714286	1588	08	0.414213562	-0.250000000	5684	09	0.446475588	-0.166666667	9780	10	0.381966011	-0.800000000	25405	11	0.701665178	0.454545455	41030	12	0.517638090	0.250000000	87686	<p>U[232] edges: 8 blocks: 1 orient: +</p>  <p>8₂₀ (0) 6^1 3 blinks</p> <p>$r_?^{36}$ #ts(full) 1</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.382683432</td><td>0.250000000</td><td>66</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>130</td></tr> <tr><td>06</td><td>0.707106781</td><td>-0.750000000</td><td>859</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>1588</td></tr> <tr><td>08</td><td>0.720437448</td><td>-0.537713694</td><td>5684</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>9780</td></tr> <tr><td>10</td><td>0.294453494</td><td>0.736718154</td><td>25405</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>41030</td></tr> <tr><td>12</td><td>0.959448117</td><td>-0.936091296</td><td>87686</td></tr> </tbody> </table> <p>gem: dabcefjhimklpnorg jqoednkmgahfrlcbpi h0 v36 eonhlqmrcpjagibkfd</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	2	04	0.382683432	0.250000000	66	05	0.000000000	0.000000000	130	06	0.707106781	-0.750000000	859	07	0.000000000	0.000000000	1588	08	0.720437448	-0.537713694	5684	09	0.000000000	0.000000000	9780	10	0.294453494	0.736718154	25405	11	0.000000000	0.000000000	41030	12	0.959448117	-0.936091296	87686	
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$r_?$ #ts(full) 517 <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.250000000</td><td>2</td></tr> <tr><td>04</td><td>0.707106781</td><td>-0.875000000</td><td>34</td></tr> <tr><td>05</td><td>0.200811416</td><td>0.250000000</td><td>82</td></tr> <tr><td>06</td><td>0.577350269</td><td>-0.333333333</td><td>379</td></tr> <tr><td>07</td><td>0.193262994</td><td>-0.451069307</td><td>838</td></tr> <tr><td>08</td><td>0.358719468</td><td>0.991586724</td><td>2428</td></tr> <tr><td>09</td><td>0.538781472</td><td>0.825196270</td><td>4732</td></tr> <tr><td>10</td><td>0.331406180</td><td>0.836918733</td><td>10741</td></tr> <tr><td>11</td><td>0.347083972</td><td>0.158838426</td><td>18994</td></tr> <tr><td>12</td><td>0.261897795</td><td>-0.507188760</td><td>36910</td></tr> </tbody> </table> <p>gem: dabcefjhimklongpsrgrnqdkjfoahpcmslebih0 v38 nqfrmchgbjjskpaile</p>		mod	theta/pi	#sts	03	1.000000000	-0.250000000	2	04	0.707106781	-0.875000000	34	05	0.200811416	0.250000000	82	06	0.577350269	-0.333333333	379	07	0.193262994	-0.451069307	838	08	0.358719468	0.991586724	2428	09	0.538781472	0.825196270	4732	10	0.331406180	0.836918733	10741	11	0.347083972	0.158838426	18994	12	0.261897795	-0.507188760	36910	U[718] edges: 8 blocks: 2 orient: - U[507] edges: 8 blocks: 1 orient: + U[1767] edges: 9 blocks: 2 orient: - 																																												
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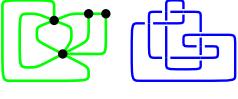
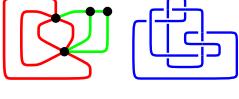
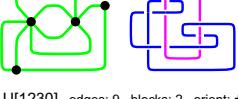
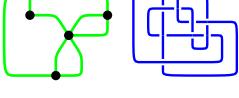
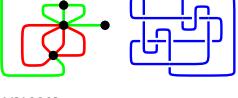
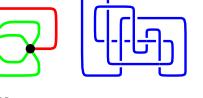
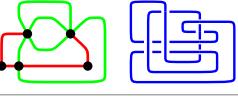
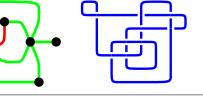
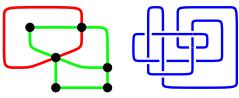
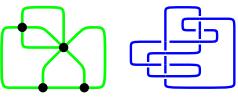
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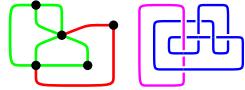
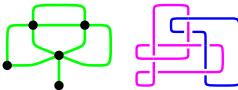
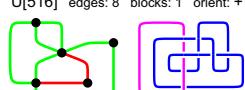
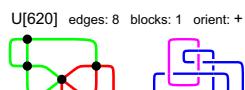
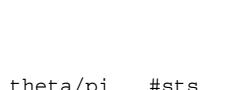
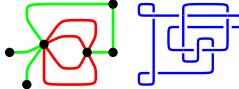
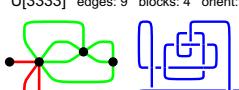
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11	5.466396440	0.273432297	11268																																																																																							
12	5.721473335	0.370261945	20368																																																																																							
<p>U[335] edges: 8 blocks: 1 orient: +</p> <p>U[1221] edges: 9 blocks: 2 orient: +</p>	<p>U[677] edges: 8 blocks: 2 orient: +</p> <p>U[753] edges: 8 blocks: 2 orient: -</p>	<p>U[761] edges: 8 blocks: 3 orient: +</p> <p>U[1604] edges: 9 blocks: 2 orient: +</p>	<p>U[2022] edges: 9 blocks: 3 orient: -</p> <p>U[1946] edges: 9 blocks: 1 orient: -</p>	<p>U[788] edges: 9 blocks: 1 orient: +</p> <p>U[2796] edges: 9 blocks: 2 orient: -</p>																																																																																						
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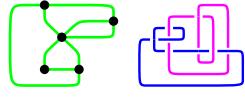
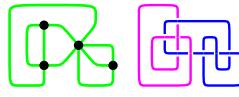
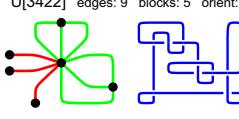
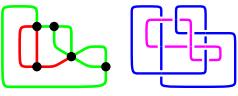
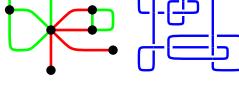
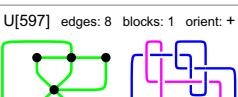
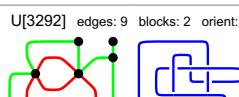
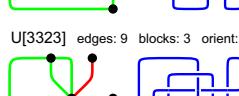
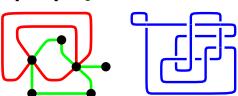
<p>8₅₄ (1) 9 blinks</p> <p>r?₄₆ #ts(full) 1</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>18</td></tr> <tr><td>05</td><td>0.953850122</td><td>-0.475632347</td><td>42</td></tr> <tr><td>06</td><td>1.000000000</td><td>-0.333333333</td><td>141</td></tr> <tr><td>07</td><td>0.542197364</td><td>-0.092192716</td><td>294</td></tr> <tr><td>08</td><td>0.717438935</td><td>-0.554086724</td><td>696</td></tr> <tr><td>09</td><td>1.466970071</td><td>-0.540756552</td><td>1272</td></tr> <tr><td>10</td><td>0.886125419</td><td>-0.630853420</td><td>2493</td></tr> <tr><td>11</td><td>0.846451309</td><td>0.863834192</td><td>4150</td></tr> <tr><td>12</td><td>1.196152423</td><td>1.000000000</td><td>7186</td></tr> </tbody> </table> <p>gem: dabcefjhimklpnosqrutwv h0 v46 mpsudthgfwjnalvboicreqk h0 v46 qvfmnktpsecirjgwdlobuh</p>		mod	theta/pi	#sts	03	1.000000000	0.000000000	2	04	0.000000000	0.000000000	18	05	0.953850122	-0.475632347	42	06	1.000000000	-0.333333333	141	07	0.542197364	-0.092192716	294	08	0.717438935	-0.554086724	696	09	1.466970071	-0.540756552	1272	10	0.886125419	-0.630853420	2493	11	0.846451309	0.863834192	4150	12	1.196152423	1.000000000	7186	<p>U[391] edges: 8 blocks: 1 orient: +</p> <p>U[470] edges: 8 blocks: 1 orient: +</p> <p>U[681] edges: 8 blocks: 1 orient: +</p> <p>U[1362] edges: 9 blocks: 2 orient: -</p>	<p>U[632] edges: 8 blocks: 1 orient: +</p> <p>U[687] edges: 8 blocks: 1 orient: +</p> <p>U[1836] edges: 9 blocks: 2 orient: -</p>																																												
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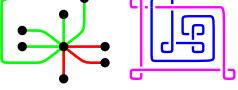
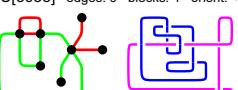
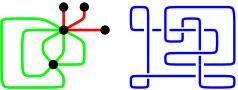
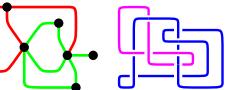
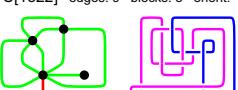
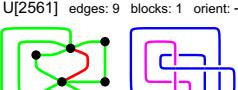
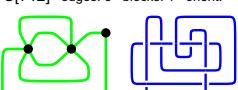
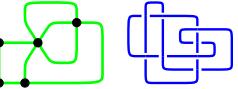
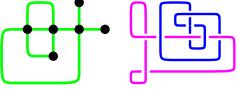
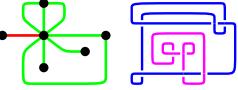
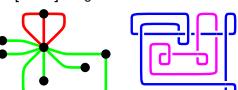
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<p>U[473] edges: 8 blocks: 1 orient: +</p>  <p>8₇₂ (0) 9¹ 9 blinks</p> <p>r?³⁶ #ts(full) 129</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.000000000</td><td>40</td></tr> <tr><td>05</td><td>0.573741760</td><td>0.075632347</td><td>140</td></tr> <tr><td>06</td><td>0.500000000</td><td>0.500000000</td><td>515</td></tr> <tr><td>07</td><td>0.608767701</td><td>0.351798064</td><td>1376</td></tr> <tr><td>08</td><td>0.574025149</td><td>0.000000000</td><td>3504</td></tr> <tr><td>09</td><td>0.621819268</td><td>0.166666667</td><td>7680</td></tr> <tr><td>10</td><td>0.329179607</td><td>-0.151264694</td><td>16005</td></tr> <tr><td>11</td><td>0.113185398</td><td>0.043326988</td><td>30580</td></tr> <tr><td>12</td><td>0.713424555</td><td>0.207606999</td><td>56056</td></tr> </tbody> </table> <p>gem: dabcefjhimklpnorg gem: jqoedckgmahnrlnfbpi h0 v36 oghmaqbcfrjpdkelin</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	4	04	0.500000000	0.000000000	40	05	0.573741760	0.075632347	140	06	0.500000000	0.500000000	515	07	0.608767701	0.351798064	1376	08	0.574025149	0.000000000	3504	09	0.621819268	0.166666667	7680	10	0.329179607	-0.151264694	16005	11	0.113185398	0.043326988	30580	12	0.713424555	0.207606999	56056	<p>U[482] edges: 8 blocks: 1 orient: +</p>  <p>U[1724] edges: 9 blocks: 1 orient: -</p>  <p>U[611] edges: 8 blocks: 1 orient: -</p>  <p>U[1230] edges: 9 blocks: 2 orient: +</p>  <p>U[1762] edges: 9 blocks: 1 orient: -</p>  <p>U[1629] edges: 9 blocks: 1 orient: -</p>  <p>U[2553] edges: 9 blocks: 2 orient: +</p> 																																												
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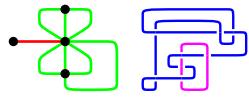
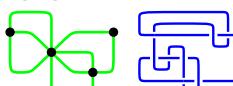
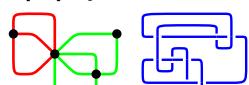
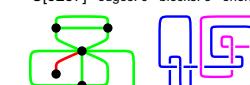
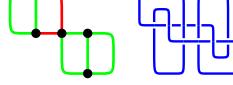
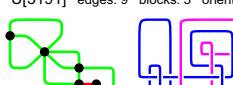
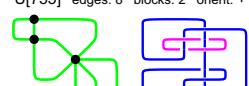
8₇₄ (1) 2 ¹ 1 blinks $r_{?}^{44}$ #ts(full) 554 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>1.847759065</td><td>-0.500000000</td><td>38</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>120</td></tr> <tr><td>06</td><td>1.414213562</td><td>0.750000000</td><td>467</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>1156</td></tr> <tr><td>08</td><td>0.352259679</td><td>-0.750000000</td><td>3084</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>6420</td></tr> <tr><td>10</td><td>2.387512269</td><td>0.228262401</td><td>13845</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>25520</td></tr> <tr><td>12</td><td>3.90516420</td><td>-0.615953415</td><td>47986</td></tr> </tbody> </table> <p>gem: dabcefghimklpnorgtsvu jiovdskgpahtmcblfrune h0 v44 rmuijhtcenqsbdkpavofl</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	1.847759065	-0.500000000	38	05	0.000000000	0.000000000	120	06	1.414213562	0.750000000	467	07	0.000000000	0.000000000	1156	08	0.352259679	-0.750000000	3084	09	0.000000000	0.000000000	6420	10	2.387512269	0.228262401	13845	11	0.000000000	0.000000000	25520	12	3.90516420	-0.615953415	47986	U[513] edges: 8 blocks: 1 orient: + 	8₇₅ (0) 2 ² 4 blinks $r_{?}^{36}$ #ts(full) 1 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>1.707106781</td><td>0.000000000</td><td>38</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>120</td></tr> <tr><td>06</td><td>2.154700538</td><td>0.000000000</td><td>467</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>1156</td></tr> <tr><td>08</td><td>2.474741603</td><td>0.000000000</td><td>3084</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>6420</td></tr> <tr><td>10</td><td>2.731292639</td><td>0.000000000</td><td>13845</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>25520</td></tr> <tr><td>12</td><td>2.954689261</td><td>0.000000000</td><td>47986</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmporg hqjedpnrfolkbgcima h0 v36 jgflombihaqrcenkpd</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	1.707106781	0.000000000	38	05	0.000000000	0.000000000	120	06	2.154700538	0.000000000	467	07	0.000000000	0.000000000	1156	08	2.474741603	0.000000000	3084	09	0.000000000	0.000000000	6420	10	2.731292639	0.000000000	13845	11	0.000000000	0.000000000	25520	12	2.954689261	0.000000000	47986
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U[535] edges: 8 blocks: 2 orient: +  8₇₉ (0) 3 blinks $r_{?}^{44}$ #ts(full) 335 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>46</td></tr> <tr><td>05</td><td>0.141995114</td><td>0.600000000</td><td>152</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>623</td></tr> <tr><td>07</td><td>0.082771509</td><td>-0.714285714</td><td>1580</td></tr> <tr><td>08</td><td>0.574025149</td><td>-0.500000000</td><td>4308</td></tr> <tr><td>09</td><td>0.524074563</td><td>-0.426125823</td><td>9084</td></tr> <tr><td>10</td><td>0.020162612</td><td>0.799999999</td><td>19809</td></tr> <tr><td>11</td><td>0.692378365</td><td>0.903564168</td><td>36784</td></tr> <tr><td>12</td><td>0.292810637</td><td>-0.946439045</td><td>69610</td></tr> </tbody> </table> <p>gem: dabcefghimklpnorgtsvu jmvedcngraioshuqpkbltf h0 v44 rfljtoakesvcnmbudggiph</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	4	04	0.500000000	1.000000000	46	05	0.141995114	0.600000000	152	06	0.288675135	0.000000000	623	07	0.082771509	-0.714285714	1580	08	0.574025149	-0.500000000	4308	09	0.524074563	-0.426125823	9084	10	0.020162612	0.799999999	19809	11	0.692378365	0.903564168	36784	12	0.292810637	-0.946439045	69610	U[537] edges: 8 blocks: 1 orient: +  U[3290] edges: 9 blocks: 3 orient: -  U[3333] edges: 9 blocks: 4 orient: + 																																													
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<p>U[569] edges: 8 blocks: 1 orient: +</p> <p>U[731] edges: 8 blocks: 2 orient: +</p> <p>U[672] edges: 8 blocks: 2 orient: -</p> <p>U[1384] edges: 9 blocks: 2 orient: -</p> <p>U[717] edges: 8 blocks: 1 orient: -</p>	<p>8₈₆ (1) 1 blinks</p> <p>r?⁵⁴ #ts(partial) 315</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>18</td></tr> <tr><td>05</td><td>0.763932023</td><td>0.000000000</td><td>38</td></tr> <tr><td>06</td><td>1.000000000</td><td>0.000000000</td><td>125</td></tr> <tr><td>07</td><td>0.119604943</td><td>1.000000000</td><td>254</td></tr> <tr><td>08</td><td>0.242640687</td><td>1.000000000</td><td>580</td></tr> <tr><td>09</td><td>0.954813188</td><td>0.000000000</td><td>1060</td></tr> <tr><td>10</td><td>0.055728090</td><td>0.000000000</td><td>2021</td></tr> <tr><td>11</td><td>0.6114739723</td><td>1.000000000</td><td>3374</td></tr> <tr><td>12</td><td>0.411542732</td><td>0.000000000</td><td>5734</td></tr> </tbody> </table> <p>gem: dabcefghimklpnosrvtuywxz jzxsdtulgfacwnmuqpoearlvkbyi h0 v54 lqvhrwAmupjydifkbxzsncoeatg</p>	r	mod	theta/pi	#sts	03	1.000000000	0.000000000	2	04	0.000000000	0.000000000	18	05	0.763932023	0.000000000	38	06	1.000000000	0.000000000	125	07	0.119604943	1.000000000	254	08	0.242640687	1.000000000	580	09	0.954813188	0.000000000	1060	10	0.055728090	0.000000000	2021	11	0.6114739723	1.000000000	3374	12	0.411542732	0.000000000	5734	<p>U[573] edges: 8 blocks: 1 orient: +</p>																																												
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8₈₈ (1) 2 ¹ 1 blinks $r_{?}^{46}$ #ts(full) 21 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>1.000000000</td><td>-0.625000000</td><td>30</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>96</td></tr> <tr><td>06</td><td>1.000000000</td><td>-0.500000000</td><td>339</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>852</td></tr> <tr><td>08</td><td>0.862555092</td><td>0.562500000</td><td>2156</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>4548</td></tr> <tr><td>10</td><td>2.048011066</td><td>0.600000000</td><td>9493</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>17688</td></tr> <tr><td>12</td><td>2.753959524</td><td>-0.375000000</td><td>32538</td></tr> </tbody> </table> <p>gem: dabcgefjhimklpnosqrutvw gem: jtwedvmlgloqihauakpfbsnrc h0 v46 qieulbwpfstjtnmgvadkcrho</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	1.000000000	-0.625000000	30	05	0.000000000	0.000000000	96	06	1.000000000	-0.500000000	339	07	0.000000000	0.000000000	852	08	0.862555092	0.562500000	2156	09	0.000000000	0.000000000	4548	10	2.048011066	0.600000000	9493	11	0.000000000	0.000000000	17688	12	2.753959524	-0.375000000	32538	U[587] edges: 8 blocks: 1 orient: + 	8₈₉ (0) 2 ¹ 1 blinks $r_{?}^{42}$ #ts(full) 1 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.382683432</td><td>1.000000000</td><td>26</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>96</td></tr> <tr><td>06</td><td>0.788675135</td><td>1.000000000</td><td>315</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>856</td></tr> <tr><td>08</td><td>0.137949690</td><td>0.000000000</td><td>2096</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>4612</td></tr> <tr><td>10</td><td>0.109673444</td><td>1.000000000</td><td>9449</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>18072</td></tr> <tr><td>12</td><td>0.402875905</td><td>0.000000000</td><td>32834</td></tr> </tbody> </table> <p>gem: dabcgefjhimklpnosqrut gem: mruedthgpkjaoafsinblqc h0 v42 sikgcoqrlapbumfedtjh</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	0.382683432	1.000000000	26	05	0.000000000	0.000000000	96	06	0.788675135	1.000000000	315	07	0.000000000	0.000000000	856	08	0.137949690	0.000000000	2096	09	0.000000000	0.000000000	4612	10	0.109673444	1.000000000	9449	11	0.000000000	0.000000000	18072	12	0.402875905	0.000000000	32834
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<p>U[3265] edges: 9 blocks: 4 orient: +</p>  <p>8₁₀₀ (0) 10^1 8 blinks</p> <p>r_{25}^{24} #ts(full) 7</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.923879533</td><td>0.000000000</td><td>24</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>76</td></tr> <tr><td>06</td><td>0.788675135</td><td>0.000000000</td><td>225</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>536</td></tr> <tr><td>08</td><td>0.392847479</td><td>0.000000000</td><td>1184</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>2344</td></tr> <tr><td>10</td><td>0.000000000</td><td>0.000000000</td><td>4385</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>7676</td></tr> <tr><td>12</td><td>0.351468575</td><td>1.000000000</td><td>12888</td></tr> </tbody> </table> <p>gem: dabcefghijklk h0 v24 khjfldcbagie</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	0.923879533	0.000000000	24	05	0.000000000	0.000000000	76	06	0.788675135	0.000000000	225	07	0.000000000	0.000000000	536	08	0.392847479	0.000000000	1184	09	0.000000000	0.000000000	2344	10	0.000000000	0.000000000	4385	11	0.000000000	0.000000000	7676	12	0.351468575	1.000000000	12888	<p>U[691] edges: 8 blocks: 7 orient: +</p>  <p>U[2611] edges: 9 blocks: 4 orient: +</p> 																																												
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<p>U[2904] edges: 9 blocks: 5 orient: +</p>  <p>U[3035] edges: 9 blocks: 4 orient: +</p>  <p>8₁₀₁ (0) 2^1 5 blinks</p> <p>$r_?$ #ts(full) 236</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.923879533</td><td>-0.500000000</td><td>18</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>34</td></tr> <tr><td>06</td><td>0.788675135</td><td>1.000000000</td><td>115</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>196</td></tr> <tr><td>08</td><td>1.419407413</td><td>-0.250000000</td><td>452</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>708</td></tr> <tr><td>10</td><td>0.502778683</td><td>0.733480848</td><td>1333</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>1958</td></tr> <tr><td>12</td><td>1.388919959</td><td>-0.344126903</td><td>3254</td></tr> </tbody> </table> <p>gem: dabcefghijklpnqrts h0 v40 pogknjsltrdhembaifcqc</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	2	04	0.923879533	-0.500000000	18	05	0.000000000	0.000000000	34	06	0.788675135	1.000000000	115	07	0.000000000	0.000000000	196	08	1.419407413	-0.250000000	452	09	0.000000000	0.000000000	708	10	0.502778683	0.733480848	1333	11	0.000000000	0.000000000	1958	12	1.388919959	-0.344126903	3254	<p>U[696] edges: 8 blocks: 4 orient: +</p>  <p>U[2774] edges: 9 blocks: 2 orient: -</p>  <p>U[1322] edges: 9 blocks: 3 orient: +</p>  <p>U[2923] edges: 9 blocks: 2 orient: +</p>  <p>U[2561] edges: 9 blocks: 1 orient: -</p> 																																												
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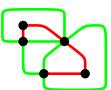
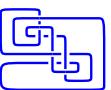
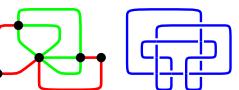
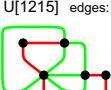
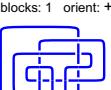
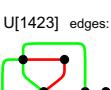
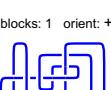
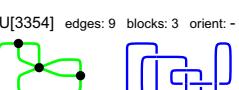
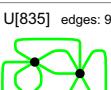
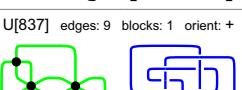
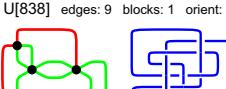
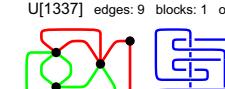
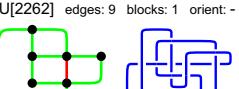
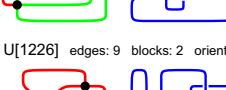
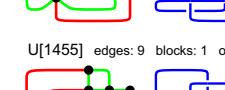
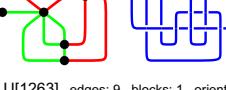
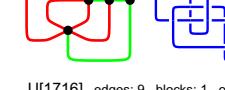
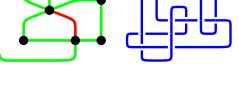
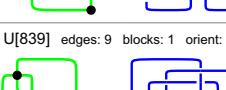
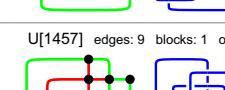
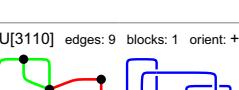
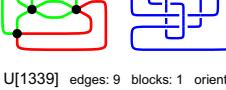
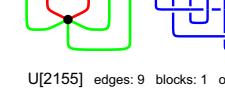
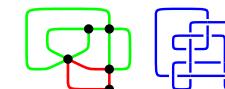
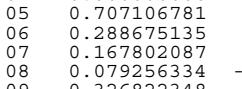
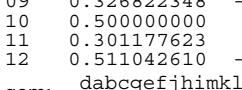
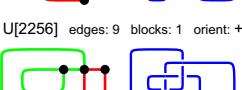
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U[740] edges: 8 blocks: 2 orient: + 	8₁₀₈ (0) 2 ¹ 2 blinks $r_{?}^{42}$ #ts(full) 45 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.382683432</td><td>1.000000000</td><td>34</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>66</td></tr> <tr><td>06</td><td>0.912870929</td><td>-0.602416382</td><td>309</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>552</td></tr> <tr><td>08</td><td>1.447463500</td><td>-0.407703062</td><td>1576</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>2600</td></tr> <tr><td>10</td><td>1.070166122</td><td>0.192048445</td><td>5725</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>8850</td></tr> <tr><td>12</td><td>1.451904657</td><td>0.239596708</td><td>16626</td></tr> </tbody> </table> <p>gem: dabcefjhimklpnosqrut mtgedohgfjnuaasicpbkrl h0 v42 ohktlsnbqeuojmrdfiafc</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	2	04	0.382683432	1.000000000	34	05	0.000000000	0.000000000	66	06	0.912870929	-0.602416382	309	07	0.000000000	0.000000000	552	08	1.447463500	-0.407703062	1576	09	0.000000000	0.000000000	2600	10	1.070166122	0.192048445	5725	11	0.000000000	0.000000000	8850	12	1.451904657	0.239596708	16626	U[741] edges: 8 blocks: 2 orient: +  U[3195] edges: 9 blocks: 3 orient: - 																																												
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8₁₀₉ (0) 8 ¹ 1 blinks $r_{?}^{44}$ #ts(partial) 518 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.250000000</td><td>2</td></tr> <tr><td>04</td><td>1.000000000</td><td>0.625000000</td><td>34</td></tr> <tr><td>05</td><td>1.118691576</td><td>-0.739085396</td><td>66</td></tr> <tr><td>06</td><td>0.577350269</td><td>0.000000000</td><td>309</td></tr> <tr><td>07</td><td>0.6181982112</td><td>0.201239215</td><td>552</td></tr> <tr><td>08</td><td>0.171572875</td><td>0.437500000</td><td>1576</td></tr> <tr><td>09</td><td>1.289098911</td><td>0.5334776290</td><td>2600</td></tr> <tr><td>10</td><td>1.291704235</td><td>-0.778851736</td><td>5725</td></tr> <tr><td>11</td><td>1.553816540</td><td>-0.438511604</td><td>8850</td></tr> <tr><td>12</td><td>1.485261448</td><td>0.216027550</td><td>16626</td></tr> </tbody> </table> <p>gem: dabcefjhimklpnosqrtsv jtectedugvarsnmlbpiofhk h0 v44 evhrodqsupjtgiaiklfcmb</p>	r	mod	theta/pi	#sts	03	1.000000000	0.250000000	2	04	1.000000000	0.625000000	34	05	1.118691576	-0.739085396	66	06	0.577350269	0.000000000	309	07	0.6181982112	0.201239215	552	08	0.171572875	0.437500000	1576	09	1.289098911	0.5334776290	2600	10	1.291704235	-0.778851736	5725	11	1.553816540	-0.438511604	8850	12	1.485261448	0.216027550	16626	U[742] edges: 8 blocks: 2 orient: + 	8₁₁₀ (0) 4 ¹ 4 blinks $r_{?}^{40}$ #ts(full) 2 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.250000000</td><td>2</td></tr> <tr><td>04</td><td>0.707106781</td><td>-0.375000000</td><td>34</td></tr> <tr><td>05</td><td>1.428399533</td><td>-0.636167270</td><td>66</td></tr> <tr><td>06</td><td>0.577350269</td><td>1.000000000</td><td>309</td></tr> <tr><td>07</td><td>1.310154813</td><td>0.985545313</td><td>552</td></tr> <tr><td>08</td><td>1.840119281</td><td>0.526597915</td><td>1576</td></tr> <tr><td>09</td><td>0.686584660</td><td>0.285238396</td><td>2600</td></tr> <tr><td>10</td><td>1.523474868</td><td>0.020993659</td><td>5725</td></tr> <tr><td>11</td><td>0.720214712</td><td>-0.496204924</td><td>8850</td></tr> <tr><td>12</td><td>0.939178884</td><td>-0.101474116</td><td>16626</td></tr> </tbody> </table> <p>gem: dabcefjhimklpnorgts jqnkdmhgsaepbltoirf h0 v40 sfhmpbaceojrdqkintgl</p>	r	mod	theta/pi	#sts	03	1.000000000	-0.250000000	2	04	0.707106781	-0.375000000	34	05	1.428399533	-0.636167270	66	06	0.577350269	1.000000000	309	07	1.310154813	0.985545313	552	08	1.840119281	0.526597915	1576	09	0.686584660	0.285238396	2600	10	1.523474868	0.020993659	5725	11	0.720214712	-0.496204924	8850	12	0.939178884	-0.101474116	16626
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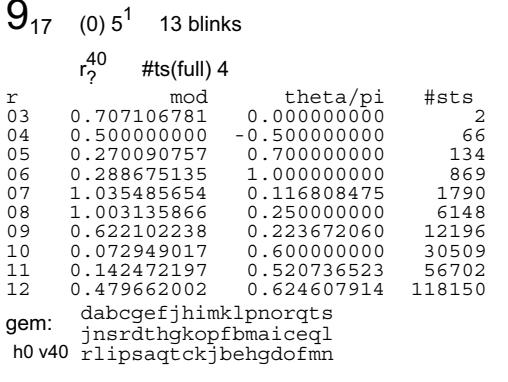
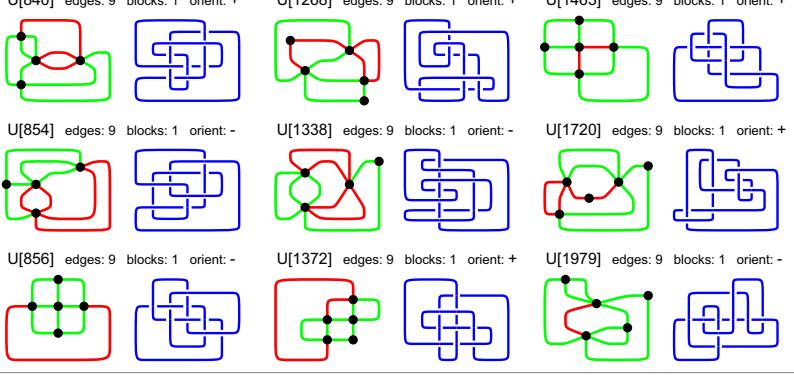
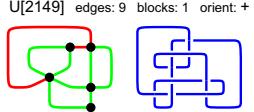
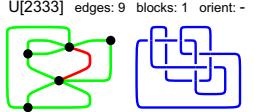
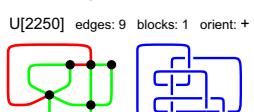
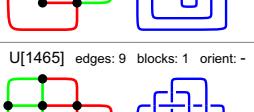
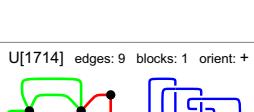
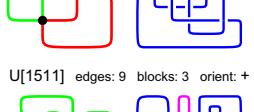
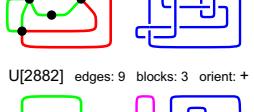
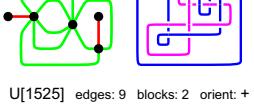
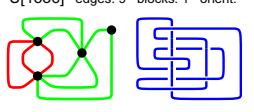
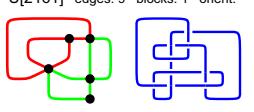
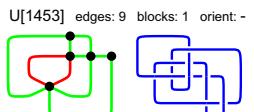
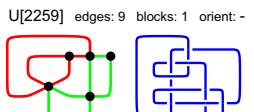
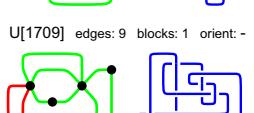
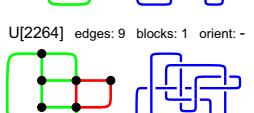
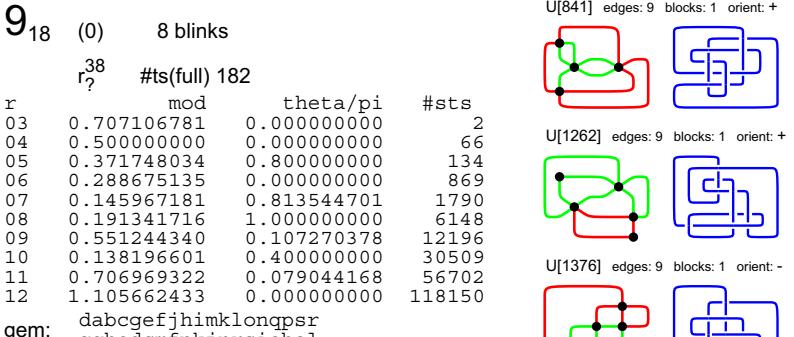
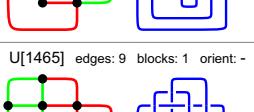
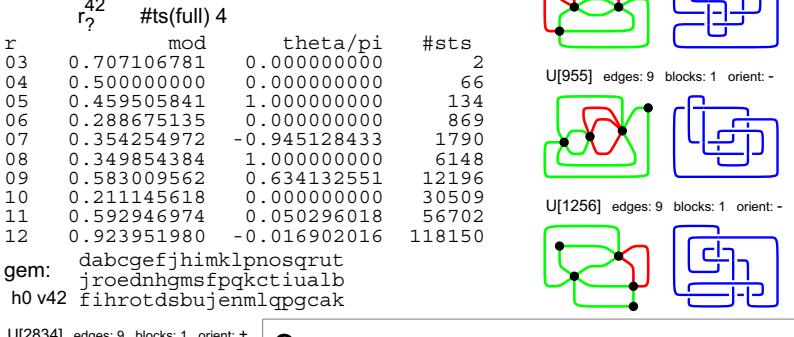
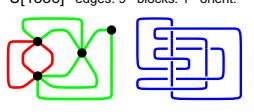
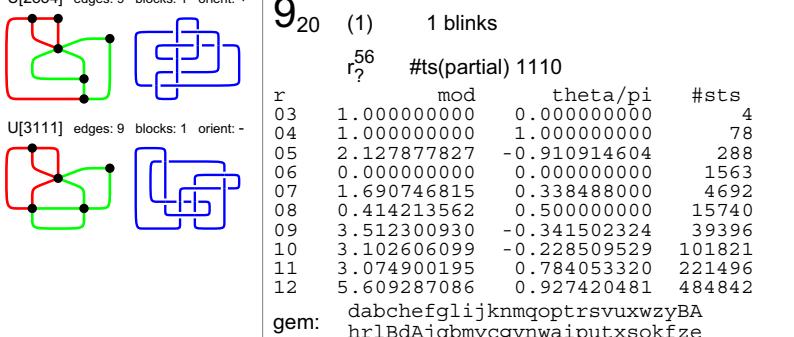
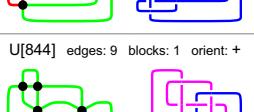
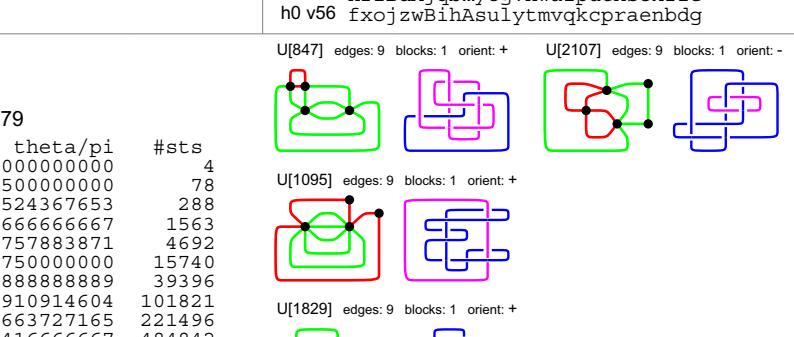
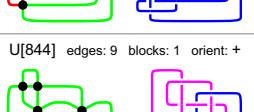
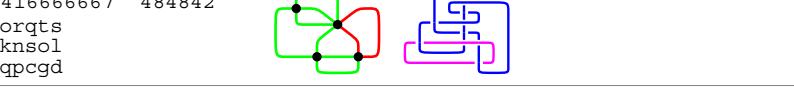
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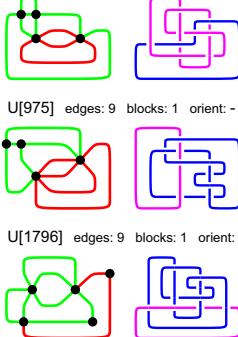
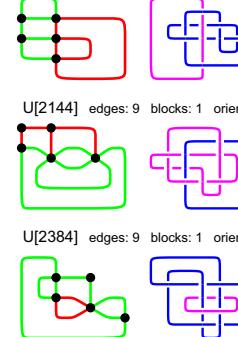
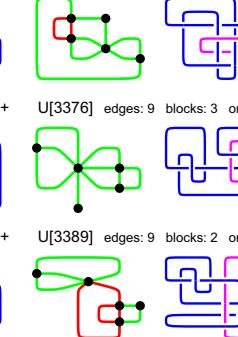
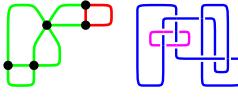
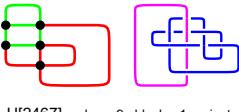
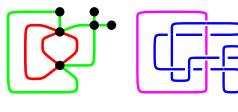
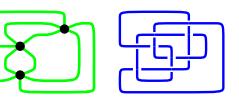
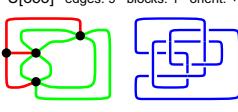
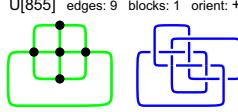
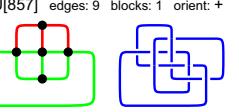
<p>8₁₁₈ (0) 8¹ 5 blinks</p> <p>$r_{?}^{32}$ #ts(full) 1083</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.250000000</td><td>2</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>3</td></tr> <tr><td>05</td><td>0.850650808</td><td>0.650000000</td><td>4</td></tr> <tr><td>06</td><td>0.577350269</td><td>0.666666667</td><td>5</td></tr> <tr><td>07</td><td>0.327985278</td><td>-0.250000000</td><td>6</td></tr> <tr><td>08</td><td>0.707106781</td><td>-0.187500000</td><td>7</td></tr> <tr><td>09</td><td>0.228013429</td><td>-0.083333333</td><td>8</td></tr> <tr><td>10</td><td>0.447213596</td><td>1.000000000</td><td>9</td></tr> <tr><td>11</td><td>0.548528732</td><td>-0.886363636</td><td>10</td></tr> <tr><td>12</td><td>0.000000000</td><td>0.000000000</td><td>11</td></tr> </tbody> </table> <p>gem: dabcefghijklknmpo jmlledpkgbnhoiacf h0 v32 hkgfndclepjaoimb</p>	r	mod	theta/pi	#sts	03	1.000000000	-0.250000000	2	04	0.000000000	0.000000000	3	05	0.850650808	0.650000000	4	06	0.577350269	0.666666667	5	07	0.327985278	-0.250000000	6	08	0.707106781	-0.187500000	7	09	0.228013429	-0.083333333	8	10	0.447213596	1.000000000	9	11	0.548528732	-0.886363636	10	12	0.000000000	0.000000000	11	<p>U[783] edges: 8 blocks: 8 orient: + U[3272] edges: 9 blocks: 5 orient: + U[3328] edges: 9 blocks: 6 orient: - U[3332] edges: 9 blocks: 6 orient: - U[3275] edges: 9 blocks: 4 orient: + U[3275] edges: 9 blocks: 4 orient: +</p>
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<p>9₁ (0) 9¹ 1 blinks</p> <p>$r_{?}^{56}$ #ts(partial) 844</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>258</td></tr> <tr><td>05</td><td>0.371748034</td><td>-0.600000000</td><td>514</td></tr> <tr><td>06</td><td>0.500000000</td><td>0.500000000</td><td>7075</td></tr> <tr><td>07</td><td>1.032991532</td><td>-0.156661084</td><td>13636</td></tr> <tr><td>08</td><td>0.191341716</td><td>-0.500000000</td><td>79172</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>144708</td></tr> <tr><td>10</td><td>0.138196601</td><td>-0.800000000</td><td>535333</td></tr> <tr><td>11</td><td>1.054886862</td><td>-0.743518924</td><td>925958</td></tr> <tr><td>12</td><td>0.612372436</td><td>0.750000000</td><td>2605574</td></tr> </tbody> </table> <p>gem: dabchefglijknmqopsrutwvzxyBA hjzydvnofBrlgsukqampAxwecib h0 v56 fyxAzatrhsobWkngipqvudlbemc</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	258	05	0.371748034	-0.600000000	514	06	0.500000000	0.500000000	7075	07	1.032991532	-0.156661084	13636	08	0.191341716	-0.500000000	79172	09	0.000000000	0.000000000	144708	10	0.138196601	-0.800000000	535333	11	1.054886862	-0.743518924	925958	12	0.612372436	0.750000000	2605574	<p>U[784] edges: 9 blocks: 1 orient: +</p>
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U[2229] edges: 9 blocks: 1 orient: +	U[2948] edges: 9 blocks: 1 orient: -	U[3365] edges: 9 blocks: 6 orient: +	9₆ (0) 26 blinks
			$r_?^{36}$ #ts(full) 1087
U[2432] edges: 9 blocks: 1 orient: +	U[2974] edges: 9 blocks: 1 orient: -	U[3398] edges: 9 blocks: 5 orient: -	mod theta/pi #sts
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9₇ (0) 9 ¹ 4 blinks			
$r_?^{54}$ #ts(full) 3			
mod theta/pi #sts			
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04 0.500000000 0.000000000 34			
05 0.655738262 0.508136683 102			
06 0.500000000 -0.500000000 465			
07 0.350555488 -0.622352330 1278			
08 0.798195913 0.000000000 3756			
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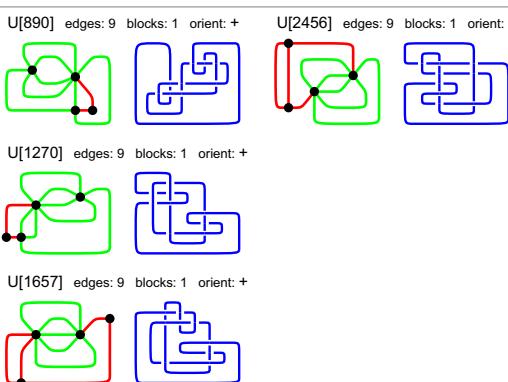
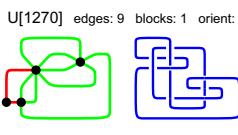
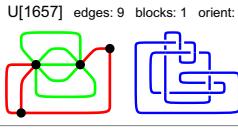
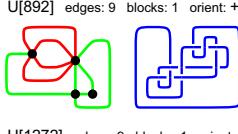
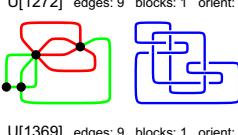
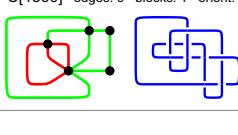
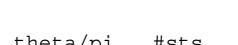
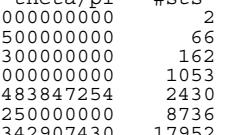
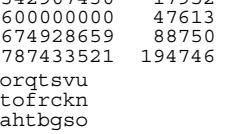
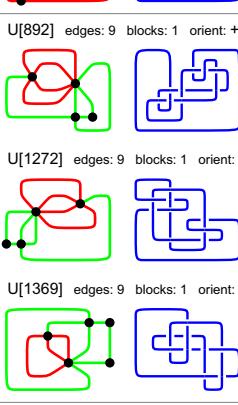
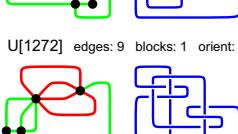
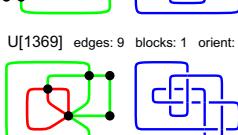
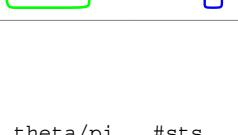
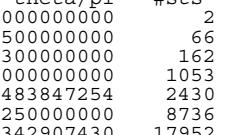
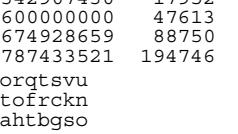
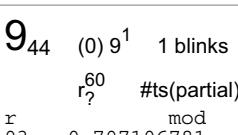
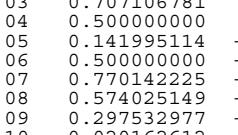
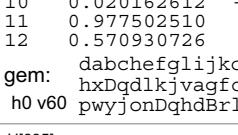
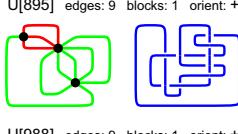
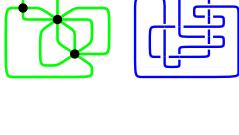
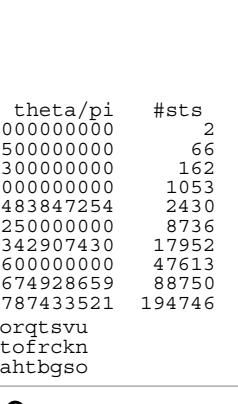
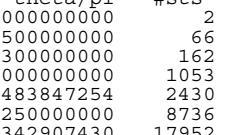
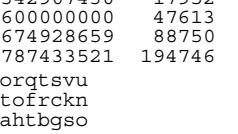
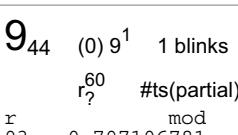
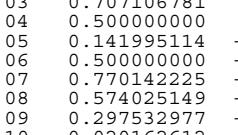
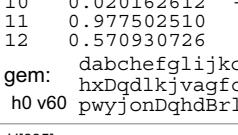
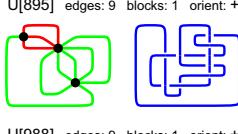
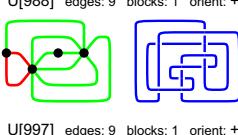
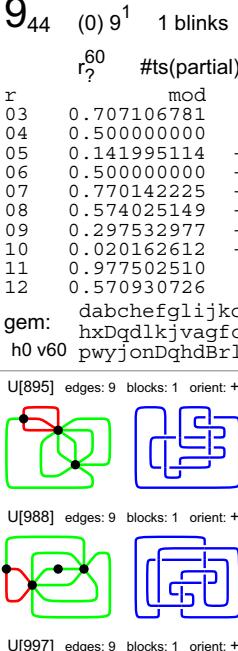
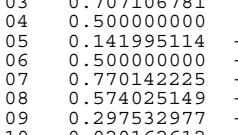
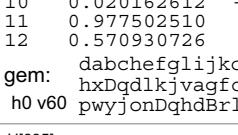
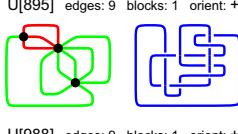
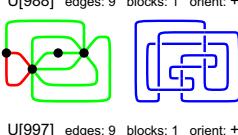
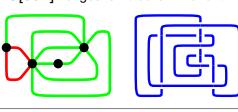
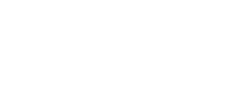
9₁₁ (0) 9 blinks $r_{?}^{46}$ #ts(full) 2 <table border="1"> <thead> <tr><th>r</th><th>mod</th><th>theta/pi</th><th>#sts</th></tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>34</td></tr> <tr><td>05</td><td>0.843294502</td><td>-0.516570011</td><td>102</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>465</td></tr> <tr><td>07</td><td>0.581997645</td><td>0.758563280</td><td>1278</td></tr> <tr><td>08</td><td>0.349854384</td><td>-0.500000000</td><td>3756</td></tr> <tr><td>09</td><td>0.473490226</td><td>0.135330958</td><td>8652</td></tr> <tr><td>10</td><td>0.711145618</td><td>-0.966859979</td><td>20289</td></tr> <tr><td>11</td><td>1.134259308</td><td>-0.799752979</td><td>40950</td></tr> <tr><td>12</td><td>0.144164812</td><td>0.761846816</td><td>82566</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmposqrutvw kvssedrnhmwugqblpfcojta h0 v46 orfiwjbjupclkesndtgqvhm</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	34	05	0.843294502	-0.516570011	102	06	0.288675135	0.000000000	465	07	0.581997645	0.758563280	1278	08	0.349854384	-0.500000000	3756	09	0.473490226	0.135330958	8652	10	0.711145618	-0.966859979	20289	11	1.134259308	-0.799752979	40950	12	0.144164812	0.761846816	82566	        
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9₁₃ (0) 3 ¹ 3 blinks $r_{?}^{38}$ #ts(full) 2 <table border="1"> <thead> <tr><th>r</th><th>mod</th><th>theta/pi</th><th>#sts</th></tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.750000000</td><td>130</td></tr> <tr><td>05</td><td>1.292602179</td><td>-0.954068341</td><td>258</td></tr> <tr><td>06</td><td>0.500000000</td><td>-0.500000000</td><td>2445</td></tr> <tr><td>07</td><td>0.897862870</td><td>-0.308548298</td><td>4632</td></tr> <tr><td>08</td><td>1.385819299</td><td>0.125000000</td><td>21016</td></tr> <tr><td>09</td><td>0.955458580</td><td>0.394499850</td><td>37400</td></tr> <tr><td>10</td><td>1.670820393</td><td>0.908136683</td><td>115525</td></tr> <tr><td>11</td><td>1.389621627</td><td>-0.650410971</td><td>193650</td></tr> <tr><td>12</td><td>1.028597444</td><td>-0.388311615</td><td>473586</td></tr> </tbody> </table> <p>gem: eabcdifghljkomnqpsr ipskfejqaoqlrbgnhmc h0 v38 rgfmqnbasieopcldkhj</p>	r	mod	theta/pi	#sts	03	0.707106781	0.500000000	2	04	0.500000000	0.750000000	130	05	1.292602179	-0.954068341	258	06	0.500000000	-0.500000000	2445	07	0.897862870	-0.308548298	4632	08	1.385819299	0.125000000	21016	09	0.955458580	0.394499850	37400	10	1.670820393	0.908136683	115525	11	1.389621627	-0.650410971	193650	12	1.028597444	-0.388311615	473586	
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9₁₄ (0) 1 blinks $r_{?}^{64}$ #ts(partial) 682 <table border="1"> <thead> <tr><th>r</th><th>mod</th><th>theta/pi</th><th>#sts</th></tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>66</td></tr> <tr><td>05</td><td>0.925766521</td><td>0.494236944</td><td>134</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>869</td></tr> <tr><td>07</td><td>0.605410948</td><td>-0.747860003</td><td>1790</td></tr> <tr><td>08</td><td>0.508367052</td><td>0.500000000</td><td>6148</td></tr> <tr><td>09</td><td>0.324895040</td><td>-0.680627595</td><td>12196</td></tr> <tr><td>10</td><td>0.857043652</td><td>-0.988473887</td><td>30509</td></tr> <tr><td>11</td><td>0.617088249</td><td>0.947314361</td><td>56702</td></tr> <tr><td>12</td><td>0.704653655</td><td>-0.983776769</td><td>118150</td></tr> </tbody> </table> <p>gem: dabchefglijkomnqptrswuvyxRzADC hsledutaAzFvfyjoBqDgmcxwEpiCrbnk h0 v64 AgfnoDprhwdm1kCfbjEytzbzvujecag</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	66	05	0.925766521	0.494236944	134	06	0.288675135	0.000000000	869	07	0.605410948	-0.747860003	1790	08	0.508367052	0.500000000	6148	09	0.324895040	-0.680627595	12196	10	0.857043652	-0.988473887	30509	11	0.617088249	0.947314361	56702	12	0.704653655	-0.983776769	118150	
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06	0.500000000	-0.500000000	869																																										
07	0.191574400	-0.818889494	1790																																										
08	0.079256334	0.125000000	6148																																										
09	0.527138749	0.525778371	12196																																										
10	0.361803399	-0.400000000	30509																																										
11	0.588946647	0.787781624	56702																																										
12	0.790569415	-0.852416382	118150																																										
        																																													
        																																													
  																																													
9₁₆ (0) 5 ¹ 7 blinks $r_{?}^{44}$ #ts(full) 97 <table border="1"> <thead> <tr><th>r</th><th>mod</th><th>theta/pi</th><th>#sts</th></tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.500000000</td><td>66</td></tr> <tr><td>05</td><td>0.707106781</td><td>0.900000000</td><td>134</td></tr> <tr><td>06</td><td>0.288675135</td><td>1.000000000</td><td>869</td></tr> <tr><td>07</td><td>0.167802087</td><td>0.731119064</td><td>1790</td></tr> <tr><td>08</td><td>0.079256334</td><td>-0.750000000</td><td>6148</td></tr> <tr><td>09</td><td>0.326822348</td><td>-0.296729159</td><td>12196</td></tr> <tr><td>10</td><td>0.500000000</td><td>0.200000000</td><td>30509</td></tr> <tr><td>11</td><td>0.301177623</td><td>0.146188886</td><td>56702</td></tr> <tr><td>12</td><td>0.511042610</td><td>-0.066291459</td><td>118150</td></tr> </tbody> </table> <p>gem: abcgefjhimklpnqr jmldqoguasechfpkrvbn oftmibucskjrpvlvdgnehq</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	-0.500000000	66	05	0.707106781	0.900000000	134	06	0.288675135	1.000000000	869	07	0.167802087	0.731119064	1790	08	0.079256334	-0.750000000	6148	09	0.326822348	-0.296729159	12196	10	0.500000000	0.200000000	30509	11	0.301177623	0.146188886	56702	12	0.511042610	-0.066291459	118150	
r	mod	theta/pi	#sts																																										
03	0.707106781	0.000000000	2																																										
04	0.500000000	-0.500000000	66																																										
05	0.707106781	0.900000000	134																																										
06	0.288675135	1.000000000	869																																										
07	0.167802087	0.731119064	1790																																										
08	0.079256334	-0.750000000	6148																																										
09	0.326822348	-0.296729159	12196																																										
10	0.500000000	0.200000000	30509																																										
11	0.301177623	0.146188886	56702																																										
12	0.511042610	-0.066291459	118150																																										
  																																													

9₁₇	(0) 5^1	13 blinks		
	$r_?$	#ts(full) 4		
	mod	theta/pi	#sts	
03	0.707106781	0.000000000	2	
04	0.500000000	-0.500000000	66	
05	0.270090757	0.700000000	134	
06	0.288675135	1.000000000	869	
07	1.035485654	0.116808475	1790	
08	1.003135866	0.250000000	6148	
09	0.622102238	0.223672060	12196	
10	0.072949017	0.600000000	30509	
11	0.142472197	0.520736523	56702	
12	0.479662002	0.624607914	118150	
gem:	dabcgefjhimklpnorqts jnsrdthgkopfbmaiceql h0 v40 rlipsaqtkjbehgofmn			
U[2149]	edges: 9	blocks: 1	orient: +	
U[2333]	edges: 9	blocks: 1	orient: -	
U[2250]	edges: 9	blocks: 1	orient: +	
U[2266]	edges: 9	blocks: 1	orient: -	
U[1465]	edges: 9	blocks: 1	orient: -	
U[1714]	edges: 9	blocks: 1	orient: +	
U[1511]	edges: 9	blocks: 3	orient: +	
U[2882]	edges: 9	blocks: 3	orient: +	
U[1525]	edges: 9	blocks: 2	orient: +	
U[1336]	edges: 9	blocks: 1	orient: -	
U[2161]	edges: 9	blocks: 1	orient: -	
U[2834]	edges: 9	blocks: 1	orient: +	
U[3111]	edges: 9	blocks: 1	orient: -	
U[1709]	edges: 9	blocks: 1	orient: -	
U[2264]	edges: 9	blocks: 1	orient: -	
U[844]	edges: 9	blocks: 1	orient: +	
9₁₈	(0)	8 blinks		
	$r_?$	#ts(full) 182		
	mod	theta/pi	#sts	
03	0.707106781	0.000000000	2	
04	0.500000000	0.000000000	66	
05	0.371748034	0.800000000	134	
06	0.288675135	0.000000000	869	
07	0.145967181	0.813544701	1790	
08	0.191341716	1.000000000	6148	
09	0.551244340	0.107270378	12196	
10	0.138196601	0.400000000	30509	
11	0.706969322	0.079044168	56702	
12	1.105662433	0.000000000	118150	
gem:	dabcgefjhimklonqpsr gghedcmfpkjnrsiobal h0 v38 ignrnhoskalejdmcqcfpb			
9₁₉	(0)	11 blinks		
	$r_?$	#ts(full) 4		
	mod	theta/pi	#sts	
03	0.707106781	0.000000000	2	
04	0.500000000	0.000000000	66	
05	0.449505841	1.000000000	134	
06	0.288675135	0.000000000	869	
07	0.354254972	-0.945128433	1790	
08	0.349854384	1.000000000	6148	
09	0.583009562	0.634132551	12196	
10	0.211145618	0.000000000	30509	
11	0.592946974	0.050296018	56702	
12	0.9233951980	-0.016902016	118150	
gem:	dabcgefjhimklpnosqrut jroednhgmsfpqkctualb h0 v42 fihrotdsbujenmlqpgcak			
9₂₀	(1)	1 blinks		
	$r_?$	#ts(partial) 1110		
	mod	theta/pi	#sts	
03	1.000000000	0.000000000	4	
04	1.000000000	1.000000000	78	
05	2.127877827	-0.910914604	288	
06	0.000000000	0.000000000	1563	
07	1.690746815	0.338488000	4692	
08	0.414213562	0.500000000	15740	
09	3.512300930	-0.341502324	39396	
10	3.102606099	-0.228509529	101821	
11	3.074900195	0.784053320	221496	
12	5.609287086	0.927420481	484842	
gem:	dabcgeflijknmqoptrsvxwzyBA hrlBdAjgbmycgvnwaiputxsokfze h0 v56 fxojzwbihAsulytmvqkcptraenbdg			
9₂₁	(1) 5^1	4 blinks		
	$r_?$	#ts(partial) 1079		
	mod	theta/pi	#sts	
03	1.000000000	0.000000000	4	
04	1.000000000	-0.500000000	78	
05	1.543361918	-0.524367653	288	
06	1.000000000	-0.666666667	1563	
07	1.414213562	-0.757883871	4692	
08	1.000000000	-0.750000000	15740	
09	1.532088886	0.888888889	39396	
10	2.127877827	0.910914604	101821	
11	1.016298803	0.663727165	221496	
12	1.931851653	0.416666667	484842	
gem:	dabcgefjhimklpnorqts jmqedchgpaitbfrknsl h0 v40 sfkonjaelbrihmtpqpcgd			
9₂₂	(1) 5^1	4 blinks		
	$r_?$	#ts(partial) 1079		
	mod	theta/pi	#sts	
03	1.000000000	0.000000000	4	
04	1.000000000	-0.500000000	78	
05	1.543361918	-0.524367653	288	
06	1.000000000	-0.666666667	1563	
07	1.414213562	-0.757883871	4692	
08	1.000000000	-0.750000000	15740	
09	1.532088886	0.888888889	39396	
10	2.127877827	0.910914604	101821	
11	1.016298803	0.663727165	221496	
12	1.931851653	0.416666667	484842	
gem:	dabcgefjhimklpnorqts jmqedchgpaitbfrknsl h0 v40 sfkonjaelbrihmtpqpcgd			
9₂₃	(1) 5^1	4 blinks		
	$r_?$	#ts(partial) 1079		
	mod	theta/pi	#sts	
03	1.000000000	0.000000000	4	
04	1.000000000	-0.500000000	78	
05	1.543361918	-0.524367653	288	
06	1.000000000	-0.666666667	1563	
07	1.414213562	-0.757883871	4692	
08	1.000000000	-0.750000000	15740	
09	1.532088886	0.888888889	39396	
10	2.127877827	0.910914604	101821	
11	1.016298803	0.663727165	221496	
12	1.931851653	0.416666667	484842	
gem:	dabcgefjhimklpnorqts jmqedchgpaitbfrknsl h0 v40 sfkonjaelbrihmtpqpcgd			

9₂₂ (1) 5 ¹ 10 blinks r? ⁴⁰ #ts(full) 99 r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 0.000000000 0.000000000 78 05 0.618033989 0.200000000 288 06 0.000000000 0.000000000 1563 07 1.856082398 0.604603779 4692 08 1.732050808 0.304086724 15740 09 0.446475588 0.277777778 39396 10 1.328131026 0.254068341 101821 11 0.255700272 -0.136363636 221496 12 2.236067978 0.647583618 484842 gem: dabcefghimklpnqrts jogedtkgmahfplrisbcn h0 v40 qghmsibcfnjrdketploa	  
 9₂₃ (1) 5 ¹ 7 blinks r? ²⁸ #ts(full) 8 r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 0.000000000 0.000000000 78 05 0.618033989 1.000000000 288 06 0.000000000 0.000000000 1563 07 1.000000000 0.000000000 4692 08 1.000000000 0.000000000 15740 09 0.000000000 0.000000000 39396 10 0.618033989 1.000000000 101821 11 0.000000000 0.000000000 221496 12 1.000000000 0.000000000 484842 gem: cabfdieghljknm inlckgjfamedhb h0 v28 mdjkanlfcibgeh	 
 9₂₄ (0) 3 ¹ 1 blinks r? ⁶⁴ #ts(full) 4 r mod theta/pi #sts 03 0.707106781 0.500000000 2 04 0.500000000 0.750000000 66 05 0.283990228 -0.900000000 134 06 0.500000000 -0.500000000 869 07 0.766566417 -0.570213797 1790 08 0.778965102 0.125000000 6148 09 2.050502153 0.552115235 12196 10 0.080650449 0.800000000 30509 11 0.190789749 -0.910116527 56702 12 0.145502328 1.000000000 118150 gem: gabcddefhijklmpqrstuvwxyzBADC F pDlAjwrgteyBECnavhqxfusuikdzcoFmb h0 v64 xmvkqoCzfrEusaiexpFbltcBnwDgyAhdj	
9₂₅ (0) 9 ¹ 1 blinks r? ⁴⁸ #ts(full) 12 r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 1.000000000 66 05 0.305141982 -0.345931659 134 06 0.500000000 -0.500000000 869 07 1.743983576 -0.652647478 1790 08 0.349854384 -0.500000000 6148 09 0.969207890 0.494500957 12196 10 0.093111629 0.691863317 30509 11 0.791801469 0.930549613 56702 12 1.433349896 0.993095416 118150 gem: dabcefghimklpnosqrvtuxw jvoednxgltsrwmcupikaqbfh h0 v48 xskihovmucjpebflawnrngtq	
 9₂₇ (0) 3 ¹ 2 blinks r? ⁵⁰ #ts(full) 3 r mod theta/pi #sts 03 0.707106781 0.500000000 2 04 0.500000000 -0.250000000 34 05 1.227884943 -0.992969343 80 06 0.500000000 -0.500000000 351 07 0.911803623 -0.706581606 908 08 0.079256334 0.625000000 2482 09 0.944714232 0.374807586 5758 10 1.507701433 0.985938687 12769 11 0.310164104 0.589343853 26080 12 0.570930726 -0.287433521 50800 gem: dabchefgkjnlmqopsrutwyx kxfedcnihrwbosmyuqgpjtalv h0 v50 ugqjvnoaeylkcrbsmfpxhitwd	 

<p>9₂₈ (0) 16¹ 2 blinks</p> <p>r?³⁶ #ts(full) 170</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.250000000</td><td>4</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>136</td></tr> <tr><td>05</td><td>0.525731112</td><td>-0.250000000</td><td>524</td></tr> <tr><td>06</td><td>1.154700538</td><td>0.000000000</td><td>3227</td></tr> <tr><td>07</td><td>0.975768883</td><td>0.048930693</td><td>10304</td></tr> <tr><td>08</td><td>0.000000000</td><td>0.000000000</td><td>35952</td></tr> <tr><td>09</td><td>0.503666400</td><td>-0.788430618</td><td>94368</td></tr> <tr><td>10</td><td>0.867632644</td><td>-0.563081267</td><td>247293</td></tr> <tr><td>11</td><td>0.876991573</td><td>-0.520229458</td><td>556468</td></tr> <tr><td>12</td><td>0.000000000</td><td>0.000000000</td><td>1223704</td></tr> </tbody> </table> <p>gem: dabcefghijklpqnorg jpoedclgraingnmfbhk h0 v36 onigcldmegjfhakpb</p>		mod	theta/pi	#sts	03	1.000000000	0.250000000	4	04	0.000000000	0.000000000	136	05	0.525731112	-0.250000000	524	06	1.154700538	0.000000000	3227	07	0.975768883	0.048930693	10304	08	0.000000000	0.000000000	35952	09	0.503666400	-0.788430618	94368	10	0.867632644	-0.563081267	247293	11	0.876991573	-0.520229458	556468	12	0.000000000	0.000000000	1223704	<p>U[860] edges: 9 blocks: 2 orient: +</p> <p>U[984] edges: 9 blocks: 1 orient: +</p>	<p>9₂₉ (0) 16¹ 1 blinks</p> <p>r?⁴² #ts(full) 687</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.250000000</td><td>4</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>136</td></tr> <tr><td>05</td><td>0.525731112</td><td>0.250000000</td><td>524</td></tr> <tr><td>06</td><td>0.577350269</td><td>-0.333333333</td><td>3227</td></tr> <tr><td>07</td><td>0.463841228</td><td>0.507883871</td><td>10304</td></tr> <tr><td>08</td><td>0.000000000</td><td>0.000000000</td><td>35952</td></tr> <tr><td>09</td><td>0.766167851</td><td>0.410953454</td><td>94368</td></tr> <tr><td>10</td><td>1.447213596</td><td>0.000000000</td><td>247293</td></tr> <tr><td>11</td><td>0.959289584</td><td>-0.587650487</td><td>556468</td></tr> <tr><td>12</td><td>0.000000000</td><td>0.000000000</td><td>1223704</td></tr> </tbody> </table> <p>gem: dabchefgkijmlongpsrutf hqiedlpomsukcganrbtjf h0 v42 gfrosbathqnckmpujleid</p>		mod	theta/pi	#sts	03	1.000000000	-0.250000000	4	04	0.000000000	0.000000000	136	05	0.525731112	0.250000000	524	06	0.577350269	-0.333333333	3227	07	0.463841228	0.507883871	10304	08	0.000000000	0.000000000	35952	09	0.766167851	0.410953454	94368	10	1.447213596	0.000000000	247293	11	0.959289584	-0.587650487	556468	12	0.000000000	0.000000000	1223704
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<p>U[860] edges: 9 blocks: 2 orient: +</p> <p>9₃₀ (0) 9¹ 1 blinks</p> <p>r?⁵⁰ #ts(partial) 768</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>130</td></tr> <tr><td>05</td><td>0.798872081</td><td>-0.545931659</td><td>258</td></tr> <tr><td>06</td><td>0.500000000</td><td>-0.500000000</td><td>2445</td></tr> <tr><td>07</td><td>0.521120889</td><td>0.428571429</td><td>4632</td></tr> <tr><td>08</td><td>0.191341716</td><td>-0.500000000</td><td>21016</td></tr> <tr><td>09</td><td>0.707106781</td><td>-0.833333333</td><td>37400</td></tr> <tr><td>10</td><td>0.638196601</td><td>-0.908136683</td><td>115525</td></tr> <tr><td>11</td><td>1.005212654</td><td>-0.842485136</td><td>193650</td></tr> <tr><td>12</td><td>0.570930726</td><td>0.962566479</td><td>473586</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmposqrutwyx hrtedwnsfvxkqpmpgoyacjuilb h0 v50 evnfxdmphrbuctiljosggqyak</p>		mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	130	05	0.798872081	-0.545931659	258	06	0.500000000	-0.500000000	2445	07	0.521120889	0.428571429	4632	08	0.191341716	-0.500000000	21016	09	0.707106781	-0.833333333	37400	10	0.638196601	-0.908136683	115525	11	1.005212654	-0.842485136	193650	12	0.570930726	0.962566479	473586	<p>U[861] edges: 9 blocks: 1 orient: +</p>																																													
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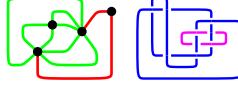
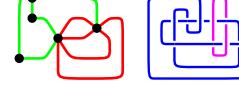
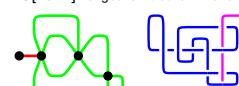
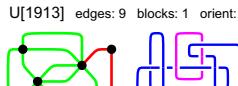
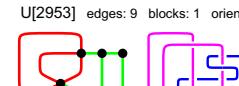
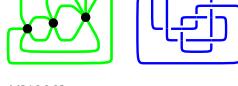
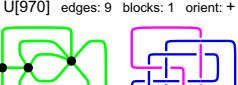
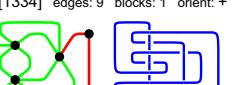
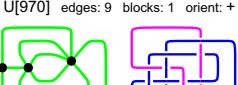
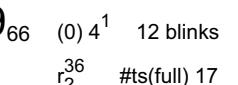
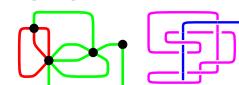
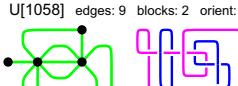
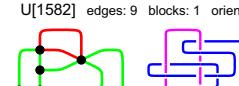
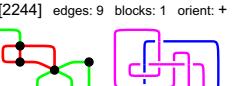
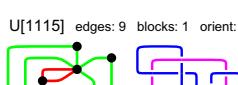
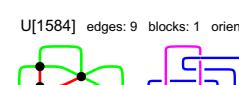
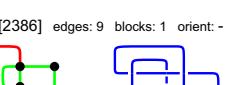
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<p>U[875] edges: 9 blocks: 1 orient: +</p> <p>9₃₇ (1) 1 blinks</p> <p>r?⁴⁸ #ts(partial) 222</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.000000000</td><td>0.000000000</td><td>136</td></tr> <tr><td>05</td><td>1.000000000</td><td>0.800000000</td><td>524</td></tr> <tr><td>06</td><td>1.000000000</td><td>0.333333333</td><td>3227</td></tr> <tr><td>07</td><td>0.554958132</td><td>-0.714285714</td><td>10304</td></tr> <tr><td>08</td><td>1.000000000</td><td>1.000000000</td><td>35952</td></tr> <tr><td>09</td><td>0.986234685</td><td>0.705097284</td><td>94368</td></tr> <tr><td>10</td><td>0.618033989</td><td>0.800000000</td><td>247293</td></tr> <tr><td>11</td><td>0.092400699</td><td>-0.363636364</td><td>556468</td></tr> <tr><td>12</td><td>1.000000000</td><td>1.000000000</td><td>1223704</td></tr> </tbody> </table> <p>gem: dabcefghijklpnosqrvtuxw mxnedutgpkjrwvqsobihfcal h0 v48 rfhjxbclcewpvqmsknatodgui</p>		mod	theta/pi	#sts	03	1.000000000	0.000000000	4	04	0.000000000	0.000000000	136	05	1.000000000	0.800000000	524	06	1.000000000	0.333333333	3227	07	0.554958132	-0.714285714	10304	08	1.000000000	1.000000000	35952	09	0.986234685	0.705097284	94368	10	0.618033989	0.800000000	247293	11	0.092400699	-0.363636364	556468	12	1.000000000	1.000000000	1223704	<p>U[879] edges: 9 blocks: 1 orient: +</p> <p>U[875] edges: 9 blocks: 1 orient: +</p> <p>9₃₈ (0) 16¹ 4 blinks</p> <p>r?²⁸₁₄ #ts(full) 22</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.250000000</td><td>4</td></tr> <tr><td>04</td><td>1.000000000</td><td>0.625000000</td><td>136</td></tr> <tr><td>05</td><td>0.525731112</td><td>0.950000000</td><td>524</td></tr> <tr><td>06</td><td>0.577350269</td><td>-0.333333333</td><td>3227</td></tr> <tr><td>07</td><td>0.736976229</td><td>0.107142857</td><td>10304</td></tr> <tr><td>08</td><td>1.000000000</td><td>0.437500000</td><td>35952</td></tr> <tr><td>09</td><td>0.656538502</td><td>0.750000000</td><td>94368</td></tr> <tr><td>10</td><td>0.447213595</td><td>-0.800000000</td><td>247293</td></tr> <tr><td>11</td><td>0.326018680</td><td>-0.113636364</td><td>556468</td></tr> <tr><td>12</td><td>0.577350269</td><td>0.208333333</td><td>1223704</td></tr> </tbody> </table> <p>gem: dabcefghijklnm jfledcmgkainhb h0 v28 kjenmidalbhfcg</p>		mod	theta/pi	#sts	03	1.000000000	0.250000000	4	04	1.000000000	0.625000000	136	05	0.525731112	0.950000000	524	06	0.577350269	-0.333333333	3227	07	0.736976229	0.107142857	10304	08	1.000000000	0.437500000	35952	09	0.656538502	0.750000000	94368	10	0.447213595	-0.800000000	247293	11	0.326018680	-0.113636364	556468	12	0.577350269	0.208333333	1223704
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<p>U[889] edges: 9 blocks: 1 orient: +</p> <p>U[1201] edges: 9 blocks: 1 orient: -</p> <p>U[3100] edges: 9 blocks: 1 orient: -</p> <p>U[1012] edges: 9 blocks: 1 orient: +</p> <p>U[1271] edges: 9 blocks: 1 orient: +</p> <p>U[3227] edges: 9 blocks: 1 orient: -</p> <p>U[1020] edges: 9 blocks: 1 orient: +</p> <p>U[2141] edges: 9 blocks: 1 orient: -</p>																																																																																									

9₄₁ (0) 4 blinks r? ⁴⁶ #ts(full) 1 r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 -0.250000000 130 05 0.601500955 0.700000000 258 06 0.500000000 -0.500000000 2445 07 0.352334551 0.407807284 4632 08 0.461939766 0.625000000 21016 09 0.651490190 -0.854183441 37400 10 0.361803399 -0.400000000 115525 11 0.714495189 -0.433881597 193650 12 0.438163552 0.201144573 473586 gem: dabchefgkijmlonrpqstuvwxyz h0 v46 snwqjirloehkbmutdavapfgc		U[890] edges: 9 blocks: 1 orient: +	U[2456] edges: 9 blocks: 1 orient: +	
		U[1270] edges: 9 blocks: 1 orient: +		
		U[1657] edges: 9 blocks: 1 orient: +		
		U[892] edges: 9 blocks: 1 orient: +		U[1445] edges: 9 blocks: 1 orient: -
		U[1272] edges: 9 blocks: 1 orient: +		U[2201] edges: 9 blocks: 1 orient: -
		U[1809] edges: 9 blocks: 1 orient: -		U[2545] edges: 9 blocks: 2 orient: +
		U[1369] edges: 9 blocks: 1 orient: +		U[1858] edges: 9 blocks: 1 orient: -
		U[1858] edges: 9 blocks: 1 orient: -		U[2652] edges: 9 blocks: 1 orient: +
		U[2859] edges: 9 blocks: 1 orient: -		U[893] edges: 9 blocks: 1 orient: +
		U[3062] edges: 9 blocks: 1 orient: +		U[1273] edges: 9 blocks: 1 orient: +
9₄₂ (0) 3 ¹ 12 blinks r? ⁴⁴ #ts(full) 1 r mod theta/pi #sts 03 0.707106781 0.500000000 2 04 0.500000000 0.750000000 66 05 0.354591908 -0.824367653 162 06 0.500000000 -0.500000000 1053 07 0.281956689 0.803767548 2430 08 0.844623199 0.125000000 8736 09 0.738992696 -0.833333333 17952 10 0.125735421 0.648735306 47613 11 0.269467614 0.786395388 88750 12 0.094734345 0.000000000 194746 gem: dabchefgkijnlmporqtsvu h0 v44 ktnedcoihpqbgvfgmaurlsj h0 v44 eoufidvsvphlktnbamngjqcr		U[1272] edges: 9 blocks: 1 orient: +		U[1809] edges: 9 blocks: 1 orient: -
		U[1809] edges: 9 blocks: 1 orient: -		U[2545] edges: 9 blocks: 2 orient: +
		U[1369] edges: 9 blocks: 1 orient: +		U[2652] edges: 9 blocks: 1 orient: +
		U[1858] edges: 9 blocks: 1 orient: -		
		U[2859] edges: 9 blocks: 1 orient: -		U[893] edges: 9 blocks: 1 orient: +
		U[3062] edges: 9 blocks: 1 orient: +		U[1444] edges: 9 blocks: 1 orient: -
		U[3077] edges: 9 blocks: 1 orient: -		U[1655] edges: 9 blocks: 1 orient: +
		U[2202] edges: 9 blocks: 1 orient: -		U[894] edges: 9 blocks: 1 orient: +
		U[3076] edges: 9 blocks: 1 orient: -		
9₄₃ (0) 5 ¹ 10 blinks r? ⁴⁴ #ts(full) 3 r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.500000000 66 05 0.707106781 0.300000000 162 06 0.288675135 1.000000000 1053 07 0.905589257 0.483847254 2430 08 0.461939766 -0.250000000 8736 09 0.365519314 -0.342907430 17952 10 0.500000000 -0.600000000 47613 11 0.524806850 -0.674928659 88750 12 0.170627495 0.787433521 194746 gem: dabcefjhihmklnpnorgtsvu jvpedsmglaqihbutofrckn puqmnkicrfjedlvahtbgso		U[1006] edges: 9 blocks: 1 orient: +		U[1444] edges: 9 blocks: 1 orient: -
		U[1015] edges: 9 blocks: 1 orient: +		U[1655] edges: 9 blocks: 1 orient: +
		U[893] edges: 9 blocks: 1 orient: +		
		U[1273] edges: 9 blocks: 1 orient: +		
		U[1015] edges: 9 blocks: 1 orient: +		
		U[1444] edges: 9 blocks: 1 orient: -		
		U[1655] edges: 9 blocks: 1 orient: +		
9₄₄ (0) 9 ¹ 1 blinks r? ⁶⁰ #ts(partial) 1114 r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 1.000000000 130 05 0.141995114 -0.800000000 258 06 0.500000000 -0.500000000 2445 07 0.770142225 -0.504224778 4632 08 0.574025149 -0.500000000 21016 09 0.297532977 -0.468742780 37400 10 0.020162612 -0.400000001 115525 11 0.977502510 0.882979470 193650 12 0.570930726 0.962566479 473586 gem: dabchefglijkmnpnptrsvuywxAzDBC hxDqlkijvagfcCrotpwesAuBzyibnm pwjyonDqhdBruleavAftmbgCkszcx		U[895] edges: 9 blocks: 1 orient: +		
		U[2852] edges: 9 blocks: 1 orient: -		
		U[3019] edges: 9 blocks: 1 orient: -		
		U[997] edges: 9 blocks: 1 orient: +		
9₄₅ (0) 3 ¹ 5 blinks r? ⁴⁰ #ts(full) 23 r mod theta/pi #sts 03 0.707106781 0.500000000 2 04 0.500000000 -0.250000000 130 05 0.601500955 0.700000000 258 06 0.500000000 -0.500000000 2445 07 0.352334551 0.407807284 4632 08 0.461939766 0.625000000 21016 09 0.651490190 -0.854183441 37400 10 0.361803399 -0.400000000 115525 11 0.714495189 -0.433881597 193650 12 0.438163552 0.201144573 473586 gem: dabcefjhihmklnpnorgts jkqedchgmrfptpsbioanl fkirosdpcbjatmeghqgln		U[988] edges: 9 blocks: 1 orient: +		
		U[895] edges: 9 blocks: 1 orient: +		
		U[2852] edges: 9 blocks: 1 orient: -		
		U[3019] edges: 9 blocks: 1 orient: -		
		U[997] edges: 9 blocks: 1 orient: +		

9₄₆	(0)	3 blinks		
r?	#ts(full) 20			
r ₃₈	mod	theta/pi	#sts	
03	0.707106781	0.000000000	2	
04	0.500000000	0.000000000	130	
05	0.141995114	-0.600000000	258	
06	0.288675135	0.000000000	2445	
07	0.121955755	0.976828893	4632	
08	0.349854384	1.000000000	21016	
09	0.435531228	-0.80413156	37400	
10	0.020162612	-0.799999999	115525	
11	0.363485788	0.001737265	193650	
12	0.739637029	0.000000000	473586	
gem:	dabcgefjhimklpqsr			
gem:	jroedcqglabspmfnhki			
h0 v38	lpngcismfqjarebokhd			
U[897]	edges: 9	blocks: 1	orient: +	
9₄₇	(0)	1 blinks		
r?	#ts(full) 295			
r ₄₈	mod	theta/pi	#sts	
03	0.707106781	0.000000000	4	
04	0.500000000	0.000000000	142	
05	0.573741760	0.275632347	536	
06	0.288675135	0.000000000	3575	
07	0.171255661	-0.677157429	10988	
08	0.574025149	1.000000000	40836	
09	0.510865515	0.392843344	103452	
10	0.329179607	-0.551264694	283977	
11	0.919692736	-0.765094608	620752	
12	0.184182555	-0.740727997	1412938	
gem:	dabcgefjhimklpnosqrvtuxw			
gem:	jrpedcmgtaowhqvfnbislxuk			
h0 v48	ogrwkvpfspdejanmlhfubxcqit			
U[897]	edges: 9	blocks: 1	orient: +	
9₄₈	(0)	1 blinks		
r?	#ts(partial) 122			
r ₄₆	mod	theta/pi	#sts	
03	0.707106781	0.000000000	4	
04	0.500000000	0.000000000	78	
05	0.141995114	0.600000000	344	
06	0.288675135	0.000000000	1831	
07	0.669569136	0.791774001	6168	
08	1.115221249	1.000000000	20704	
09	0.899231929	-0.826864291	55096	
10	0.020162612	0.799999999	143189	
11	0.444728026	0.728692629	322584	
12	0.449180891	-0.696806603	709822	
gem:	dabcgefjhimklpnosqrutvw			
gem:	jrqudwhgmafnslvtpbiceok			
h0 v46	uhgfvscomnjtwkiaeldrpbq			
U[897]	edges: 9	blocks: 1	orient: +	
9₄₉	(0)	3 ¹ 8 blinks		
r?	#ts(full) 5			
r ₃₂	mod	theta/pi	#sts	
03	0.707106781	0.500000000	4	
04	0.500000000	0.750000000	78	
05	0.928333668	0.824367653	344	
06	0.500000000	-0.500000000	1831	
07	0.103214383	0.642857143	6168	
08	0.461939766	-0.875000000	20704	
09	0.494622939	0.753479442	55096	
10	0.861803399	-0.648735306	143189	
11	0.734443654	-0.339690201	322584	
12	0.353553391	-0.500000000	709822	
gem:	dabcgefjhimklpnosqrutvw			
gem:	jpmfedlhgknofcaib			
h0 v32	pofhkinmcjejqdlnba			
U[900]	edges: 9	blocks: 1	orient: +	
9₅₀	(0)	7 ¹ 7 blinks		
r?	#ts(full) 2			
r ₃₄	mod	theta/pi	#sts	
03	0.707106781	-0.500000000	4	
04	0.500000000	0.750000000	78	
05	0.229752920	-0.300000000	344	
06	0.288675135	0.000000000	1831	
07	0.567055611	-0.214285714	6168	
08	0.574025148	-0.875000000	20704	
09	0.239622258	-0.913187225	55096	
10	0.052786404	-0.400000000	143189	
11	0.514138059	-0.021861582	322584	
12	0.734490785	-0.669842373	709822	
gem:	dabcgefjhimklpnosqrutvw			
gem:	jnkdedmhgpacbqliof			
h0 v34	poghbkmcfjqdaenl			
U[906]	edges: 9	blocks: 1	orient: +	
9₅₁	(0)	11 ¹ 10 blinks		
r?	#ts(full) 95			
r ₂₈	mod	theta/pi	#sts	
03	0.707106781	-0.500000000	4	
04	0.500000000	-0.750000000	78	
05	0.371748034	0.500000000	344	
06	0.288675135	1.000000000	1831	
07	0.417906506	0.214285714	6168	
08	0.461939766	-0.125000000	20704	
09	0.464242827	-0.833333333	55096	
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11	0.000000000	0.000000000	322584	
12	0.105662433	0.750000000	709822	
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gem:	jlfledcmgkainhb			
h0 v28	hjknmldafbeicg			
U[908]	edges: 9	blocks: 1	orient: +	
9₄₇	(0)	1 blinks		
r?	#ts(full) 295			
r ₄₈	mod	theta/pi	#sts	
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06	0.288675135	0.000000000	3575	
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08	0.574025149	1.000000000	40836	
09	0.510865515	0.392843344	103452	
10	0.329179607	-0.551264694	283977	
11	0.919692736	-0.765094608	620752	
12	0.184182555	-0.740727997	1412938	
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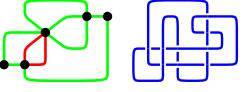
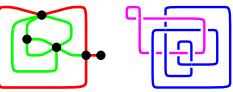
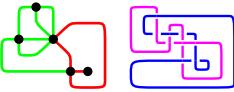
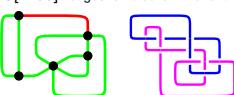
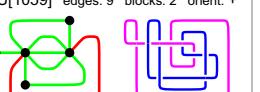
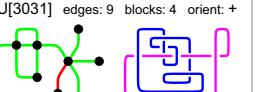
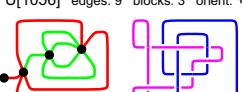
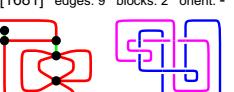
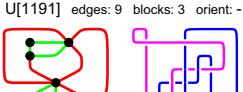
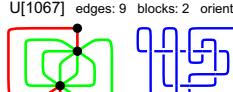
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r	mod	theta/pi	#sts																																											
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<p>9₅₃ (1) 5¹ 11 blinks</p> <p>r? #ts(full) 9</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>1.000000000</td><td>-0.500000000</td><td>166</td></tr> <tr><td>05</td><td>1.000000000</td><td>-0.800000000</td><td>584</td></tr> <tr><td>06</td><td>1.000000000</td><td>0.666666667</td><td>4487</td></tr> <tr><td>07</td><td>1.414213562</td><td>0.472169585</td><td>12764</td></tr> <tr><td>08</td><td>1.000000000</td><td>0.250000000</td><td>52212</td></tr> <tr><td>09</td><td>1.331660018</td><td>-0.250562838</td><td>124428</td></tr> <tr><td>10</td><td>1.618033989</td><td>-0.600000000</td><td>364953</td></tr> <tr><td>11</td><td>1.899806432</td><td>0.869772590</td><td>761728</td></tr> <tr><td>12</td><td>2.503587265</td><td>0.517041874</td><td>1818514</td></tr> </tbody> </table> <p>gem: dabcgefjhimklonqp joledchgpaiqnmbkf h0 v34 nqilomjfcbedhpkg</p>	r	mod	theta/pi	#sts	03	1.000000000	0.000000000	4	04	1.000000000	-0.500000000	166	05	1.000000000	-0.800000000	584	06	1.000000000	0.666666667	4487	07	1.414213562	0.472169585	12764	08	1.000000000	0.250000000	52212	09	1.331660018	-0.250562838	124428	10	1.618033989	-0.600000000	364953	11	1.899806432	0.869772590	761728	12	2.503587265	0.517041874	1818514	<p>U[911] edges: 9 blocks: 1 orient: +</p> <p>U[1121] edges: 9 blocks: 1 orient: +</p>	<p>U[1965] edges: 9 blocks: 1 orient: +</p> <p>U[2462] edges: 9 blocks: 1 orient: +</p>
r	mod	theta/pi	#sts																																											
03	1.000000000	0.000000000	4																																											
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<p>U[2689] edges: 9 blocks: 1 orient: -</p> <p>9₅₄ (0) 5¹ 4 blinks</p> <p>r? #ts(full) 8493</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.500000000</td><td>66</td></tr> <tr><td>05</td><td>0.674473890</td><td>0.175632347</td><td>138</td></tr> <tr><td>06</td><td>0.288675135</td><td>1.000000000</td><td>885</td></tr> <tr><td>07</td><td>0.497935824</td><td>0.132138119</td><td>1902</td></tr> <tr><td>08</td><td>0.079256334</td><td>-0.250000000</td><td>6528</td></tr> <tr><td>09</td><td>0.586568617</td><td>-0.079125430</td><td>13248</td></tr> <tr><td>10</td><td>0.454915028</td><td>-0.351264694</td><td>33453</td></tr> <tr><td>11</td><td>0.782450151</td><td>-0.343606275</td><td>62710</td></tr> <tr><td>12</td><td>0.166209766</td><td>-0.569295384</td><td>132250</td></tr> </tbody> </table> <p>gem: dabcgefkhijnlmqopsrutwvyxBzADC gwmAditqfzlkvynrupashobjDxeCbc h0 v60 qnxzvcBgAmoaCswDlibdyuktefrhpj</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	0.500000000	66	05	0.674473890	0.175632347	138	06	0.288675135	1.000000000	885	07	0.497935824	0.132138119	1902	08	0.079256334	-0.250000000	6528	09	0.586568617	-0.079125430	13248	10	0.454915028	-0.351264694	33453	11	0.782450151	-0.343606275	62710	12	0.166209766	-0.569295384	132250	<p>U[912] edges: 9 blocks: 1 orient: +</p> <p>U[1021] edges: 9 blocks: 1 orient: +</p>	<p>U[1861] edges: 9 blocks: 1 orient: +</p> <p>U[1862] edges: 9 blocks: 1 orient: +</p>
r	mod	theta/pi	#sts																																											
03	0.707106781	0.000000000	2																																											
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<p>9₅₅ (0) 9 blinks</p> <p>r? #ts(full) 43</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>66</td></tr> <tr><td>05</td><td>0.798872081</td><td>0.745931659</td><td>138</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>885</td></tr> <tr><td>07</td><td>0.517584392</td><td>-0.256786059</td><td>1902</td></tr> <tr><td>08</td><td>0.574025149</td><td>-0.500000000</td><td>6528</td></tr> <tr><td>09</td><td>0.366373277</td><td>-0.865139473</td><td>13248</td></tr> <tr><td>10</td><td>0.638196601</td><td>0.508136683</td><td>33453</td></tr> <tr><td>11</td><td>0.444334647</td><td>-0.393725595</td><td>62710</td></tr> <tr><td>12</td><td>0.460571866</td><td>0.869926531</td><td>132250</td></tr> </tbody> </table> <p>gem: dabcgefkhijnlmqopsrutwvyx nxqedctgpsvkrumiouwhyljfb h0 v50 pgvtsubqmrhodekylximwcfja</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	66	05	0.798872081	0.745931659	138	06	0.288675135	0.000000000	885	07	0.517584392	-0.256786059	1902	08	0.574025149	-0.500000000	6528	09	0.366373277	-0.865139473	13248	10	0.638196601	0.508136683	33453	11	0.444334647	-0.393725595	62710	12	0.460571866	0.869926531	132250	<p>U[913] edges: 9 blocks: 1 orient: +</p> <p>U[1023] edges: 9 blocks: 1 orient: +</p>	<p>U[1723] edges: 9 blocks: 1 orient: +</p> <p>U[1762] edges: 9 blocks: 1 orient: +</p>
r	mod	theta/pi	#sts																																											
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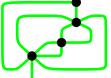
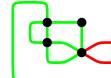
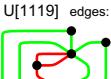
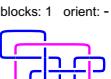
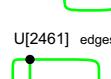
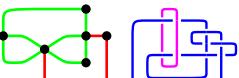
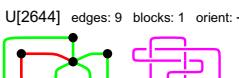
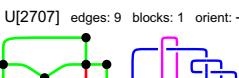
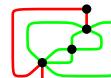
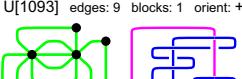
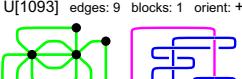
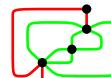
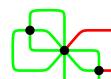
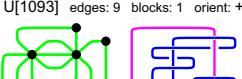
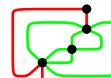
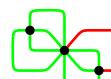
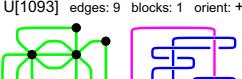
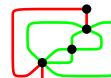
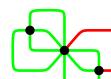
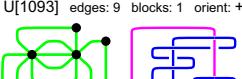
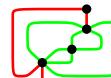
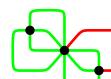
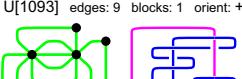
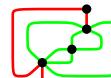
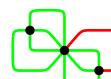
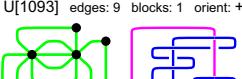
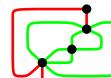
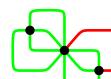
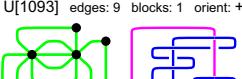
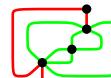
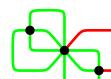
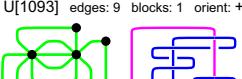
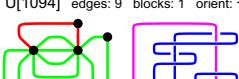
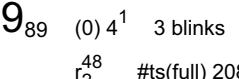
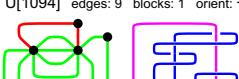
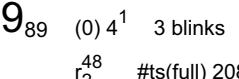
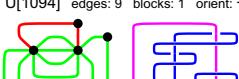
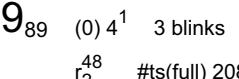
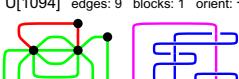
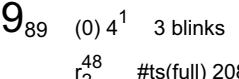
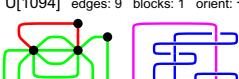
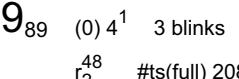
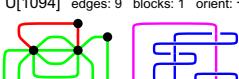
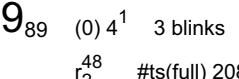
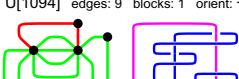
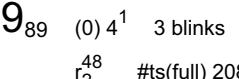
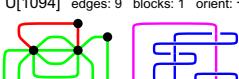
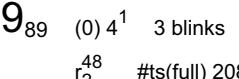
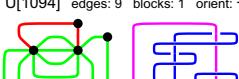
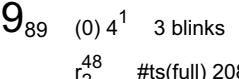
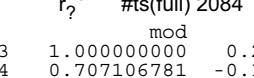
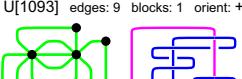
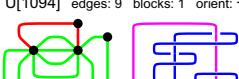
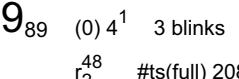
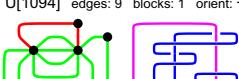
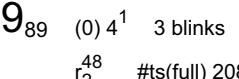
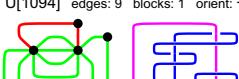
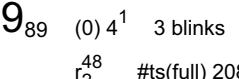
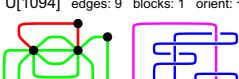
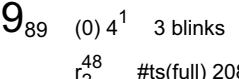
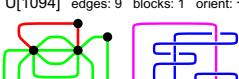
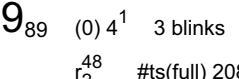
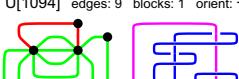
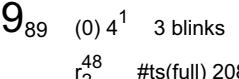
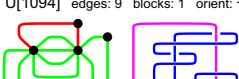
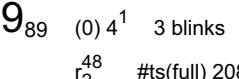
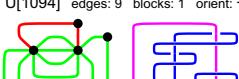
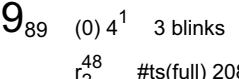
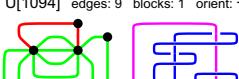
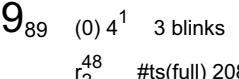
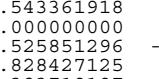
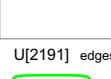
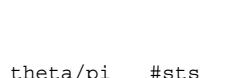
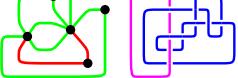
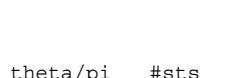
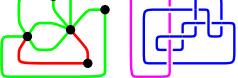
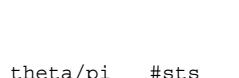
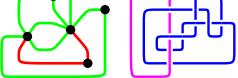
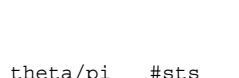
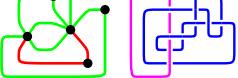
9₅₇ (0) 3 ¹ 14 blinks $r_{?}^{44}$ #ts(full) 2 <table border="1"> <thead> <tr><th></th><th>mod</th><th>theta/pi</th><th>#sts</th></tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.750000000</td><td>66</td></tr> <tr><td>05</td><td>0.791034400</td><td>-0.810914604</td><td>138</td></tr> <tr><td>06</td><td>0.500000000</td><td>-0.500000000</td><td>885</td></tr> <tr><td>07</td><td>0.390490928</td><td>0.492769108</td><td>1902</td></tr> <tr><td>08</td><td>0.303427098</td><td>0.125000000</td><td>6528</td></tr> <tr><td>09</td><td>0.439688074</td><td>-0.476103888</td><td>13248</td></tr> <tr><td>10</td><td>0.625735421</td><td>0.621829208</td><td>33453</td></tr> <tr><td>11</td><td>0.393664085</td><td>-0.955615006</td><td>62710</td></tr> <tr><td>12</td><td>0.178138318</td><td>-0.127285205</td><td>132250</td></tr> </tbody> </table> <p>gem: dabcefghimklpnorqtsvu jprudqsgtminalfbovhkec h0 v44 njustirmfbapqkdgħlovce</p>		mod	theta/pi	#sts	03	0.707106781	0.500000000	2	04	0.500000000	0.750000000	66	05	0.791034400	-0.810914604	138	06	0.500000000	-0.500000000	885	07	0.390490928	0.492769108	1902	08	0.303427098	0.125000000	6528	09	0.439688074	-0.476103888	13248	10	0.625735421	0.621829208	33453	11	0.393664085	-0.955615006	62710	12	0.178138318	-0.127285205	132250	U[2274] edges: 9 blocks: 1 orient: + U[3123] edges: 9 blocks: 1 orient: + U[2293] edges: 9 blocks: 1 orient: - U[3224] edges: 9 blocks: 1 orient: - U[3096] edges: 9 blocks: 1 orient: -
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9₇₆ (0) 4 blinks $r_{?}^{56}$ #ts(full) 1687 <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.000000000</td><td>66</td></tr> <tr><td>05</td><td>0.634136124</td><td>-0.357983330</td><td>146</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>929</td></tr> <tr><td>07</td><td>0.833734007</td><td>-0.334482093</td><td>2090</td></tr> <tr><td>08</td><td>0.349854384</td><td>0.000000000</td><td>7264</td></tr> <tr><td>09</td><td>1.134970781</td><td>-0.914623572</td><td>14944</td></tr> <tr><td>10</td><td>0.402128624</td><td>0.715966660</td><td>38465</td></tr> <tr><td>11</td><td>1.063898189</td><td>0.671799094</td><td>72218</td></tr> <tr><td>12</td><td>0.578143592</td><td>-0.054260454</td><td>154978</td></tr> </tbody> </table> <p>gem: dabchefglijkomnqpsrutvzxyCABED lvfedcEqhChnUdzcoAwkramtjBpiyxbg h0 v62 Dgswvxpaoytm1libfqCBeuErjnzkchd</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	0.000000000	66	05	0.634136124	-0.357983330	146	06	0.288675135	0.000000000	929	07	0.833734007	-0.334482093	2090	08	0.349854384	0.000000000	7264	09	1.134970781	-0.914623572	14944	10	0.402128624	0.715966660	38465	11	1.063898189	0.671799094	72218	12	0.578143592	-0.054260454	154978	
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 <p>U[2789] edges: 9 blocks: 1 orient: +</p>	<p>9₇₉ (0) 3¹ 2 blinks</p> <p>r?₄₆ #ts(full) 353</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>-0.500000000</td><td>4</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.750000000</td><td>42</td></tr> <tr><td>05</td><td>0.862420669</td><td>-0.730853420</td><td>172</td></tr> <tr><td>06</td><td>0.500000000</td><td>0.500000000</td><td>703</td></tr> <tr><td>07</td><td>0.348247882</td><td>0.316096036</td><td>2404</td></tr> <tr><td>08</td><td>0.079256334</td><td>0.875000000</td><td>7080</td></tr> <tr><td>09</td><td>0.315137246</td><td>-0.905127529</td><td>19088</td></tr> <tr><td>10</td><td>0.743769410</td><td>0.461706841</td><td>46437</td></tr> <tr><td>11</td><td>0.978111216</td><td>-0.177415037</td><td>105500</td></tr> <tr><td>12</td><td>0.601548235</td><td>-0.858423697</td><td>223282</td></tr> </tbody> </table> <p>gem: dabchefgkijmlpnorqtsvuxw h0 v48 gfqjurathswpcmexnbdiokvl</p>	r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	4	04	0.500000000	-0.750000000	42	05	0.862420669	-0.730853420	172	06	0.500000000	0.500000000	703	07	0.348247882	0.316096036	2404	08	0.079256334	0.875000000	7080	09	0.315137246	-0.905127529	19088	10	0.743769410	0.461706841	46437	11	0.978111216	-0.177415037	105500	12	0.601548235	-0.858423697	223282	 <p>U[1042] edges: 9 blocks: 2 orient: +</p>																																													
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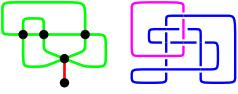
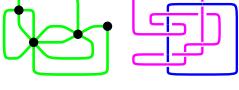
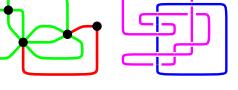
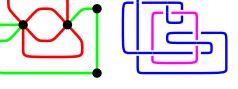
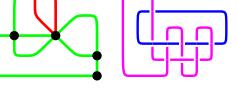
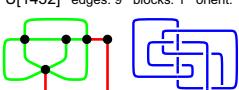
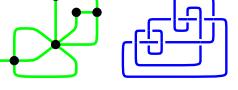
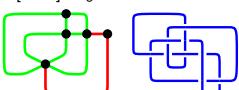
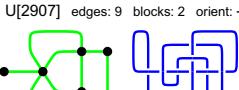
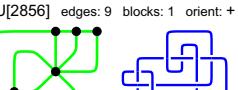
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U[2684] edges: 9 blocks: 1 orient: -	U[3080] edges: 9 blocks: 2 orient: +	$r_{?}^{56}$ #ts(full) 12	U[2138] edges: 9 blocks: 1 orient: +
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U[2292] edges: 9 blocks: 1 orient: +	9₉₂ (0) 19 blinks	U[1200] edges: 9 blocks: 1 orient: +	U[1672] edges: 9 blocks: 1 orient: -
U[3095] edges: 9 blocks: 1 orient: +		$r_{?}^{50}$ #ts(full) 2	U[1475] edges: 9 blocks: 1 orient: -
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U[3223] edges: 9 blocks: 1 orient: +		03 0.707106781 0.000000000 2 04 0.500000000 1.000000000 34 05 0.885491183 0.951264694 74 06 0.288675135 0.000000000 335 07 0.533652450 -0.245116252 722 08 0.191341716 0.500000000 2020 09 0.819766232 0.290764673 3940 10 0.784094635 0.097470612 8689 11 0.801810620 -0.640239720 15446 12 0.648594295 0.883535487 29406	U[2124] edges: 9 blocks: 1 orient: +
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U[2185] edges: 9 blocks: 1 orient: +	U[2294] edges: 9 blocks: 1 orient: +	U[2850] edges: 9 blocks: 1 orient: -	U[3117] edges: 9 blocks: 1 orient: -
U[2271] edges: 9 blocks: 1 orient: -	U[2753] edges: 9 blocks: 1 orient: +	U[3015] edges: 9 blocks: 1 orient: -	U[3119] edges: 9 blocks: 1 orient: -
U[2272] edges: 9 blocks: 1 orient: -	U[2792] edges: 9 blocks: 1 orient: -	U[3098] edges: 9 blocks: 1 orient: +	U[3120] edges: 9 blocks: 1 orient: -
9₉₃ (0) 3¹ 20 blinks		U[1203] edges: 9 blocks: 1 orient: +	U[2150] edges: 9 blocks: 1 orient: +
$r_{?}^{50}$ #ts(full) 16			
r mod theta/pi #sts		U[1443] edges: 9 blocks: 1 orient: -	U[2186] edges: 9 blocks: 1 orient: +
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U[2252] edges: 9 blocks: 1 orient: +	U[2790] edges: 9 blocks: 1 orient: -	U[2905] edges: 9 blocks: 2 orient: -	
U[2295] edges: 9 blocks: 1 orient: +	U[2832] edges: 9 blocks: 1 orient: -	U[3075] edges: 9 blocks: 1 orient: -	U[3107] edges: 9 blocks: 1 orient: +
U[2635] edges: 9 blocks: 2 orient: -	U[2857] edges: 9 blocks: 1 orient: -	U[3226] edges: 9 blocks: 1 orient: +	U[3226] edges: 9 blocks: 1 orient: +
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<p>U[2677] edges: 9 blocks: 1 orient: +</p> <p>9₁₀₁ (0) 5¹ 18 blinks</p> <p>$r_{?}^{42}$ #ts(full) 2</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.500000000</td><td>34</td></tr> <tr><td>05</td><td>0.270090757</td><td>-0.100000000</td><td>82</td></tr> <tr><td>06</td><td>0.288675135</td><td>1.000000000</td><td>379</td></tr> <tr><td>07</td><td>0.182528287</td><td>-0.679459907</td><td>838</td></tr> <tr><td>08</td><td>0.461939766</td><td>0.250000000</td><td>2428</td></tr> <tr><td>09</td><td>0.607432833</td><td>0.528627227</td><td>4732</td></tr> <tr><td>10</td><td>0.072949017</td><td>0.200000000</td><td>10741</td></tr> <tr><td>11</td><td>0.440032924</td><td>0.753677456</td><td>18994</td></tr> <tr><td>12</td><td>0.904316801</td><td>0.547331864</td><td>36910</td></tr> </tbody> </table> <p>gem: dabcefghjhimklongpsrut h0 v42 tgjikamsrlpuqohfcinbed</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	-0.500000000	34	05	0.270090757	-0.100000000	82	06	0.288675135	1.000000000	379	07	0.182528287	-0.679459907	838	08	0.461939766	0.250000000	2428	09	0.607432833	0.528627227	4732	10	0.072949017	0.200000000	10741	11	0.440032924	0.753677456	18994	12	0.904316801	0.547331864	36910	<p>U[1245] edges: 9 blocks: 1 orient: +</p> <p>U[1614] edges: 9 blocks: 1 orient: -</p>
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<p>U[1251] edges: 9 blocks: 1 orient: +</p> <p>9₁₀₄ (0) 9¹ 4 blinks</p> <p>$r_{?}^{50}$ #ts(full) 2</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>34</td></tr> <tr><td>05</td><td>0.407505394</td><td>0.734341190</td><td>82</td></tr> <tr><td>06</td><td>0.500000000</td><td>-0.500000000</td><td>379</td></tr> <tr><td>07</td><td>0.940578933</td><td>-0.221509502</td><td>838</td></tr> <tr><td>08</td><td>0.574025149</td><td>0.500000000</td><td>2428</td></tr> <tr><td>09</td><td>0.501584178</td><td>0.487914522</td><td>4732</td></tr> <tr><td>10</td><td>0.166060646</td><td>0.531317619</td><td>10741</td></tr> <tr><td>11</td><td>0.565209506</td><td>-0.801291897</td><td>18994</td></tr> <tr><td>12</td><td>0.624041998</td><td>0.811654474</td><td>36910</td></tr> </tbody> </table> <p>gem: dabchefgkjnlmposqrutwvyx h0 v50 krpedcuhihwysjtnfbqxbvgmla owuixljbnrfkpdametgscqyvh</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	34	05	0.407505394	0.734341190	82	06	0.500000000	-0.500000000	379	07	0.940578933	-0.221509502	838	08	0.574025149	0.500000000	2428	09	0.501584178	0.487914522	4732	10	0.166060646	0.531317619	10741	11	0.565209506	-0.801291897	18994	12	0.624041998	0.811654474	36910	<p>U[1258] edges: 9 blocks: 1 orient: +</p> <p>U[3054] edges: 9 blocks: 2 orient: -</p> <p>U[1711] edges: 9 blocks: 1 orient: +</p> <p>U[2782] edges: 9 blocks: 1 orient: +</p>
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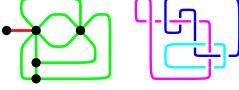
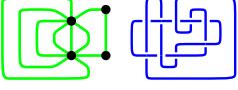
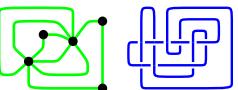
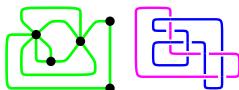
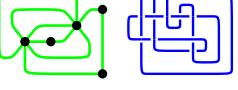
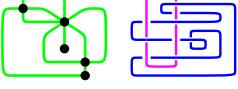
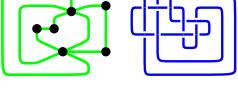
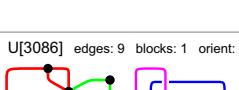
<p>9₁₀₅ (0) 5¹ 10 blinks</p> <p>$r_?$ #ts(full) 6904</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.500000000</td><td>34</td></tr> <tr><td>05</td><td>0.674473890</td><td>-0.824367653</td><td>82</td></tr> <tr><td>06</td><td>0.288675135</td><td>1.000000000</td><td>379</td></tr> <tr><td>07</td><td>0.439513355</td><td>0.880313964</td><td>838</td></tr> <tr><td>08</td><td>0.079256334</td><td>0.250000000</td><td>2428</td></tr> <tr><td>09</td><td>0.138728663</td><td>0.044504251</td><td>4732</td></tr> <tr><td>10</td><td>0.454915028</td><td>-0.351264694</td><td>10741</td></tr> <tr><td>11</td><td>0.676625972</td><td>0.045431633</td><td>18994</td></tr> <tr><td>12</td><td>0.198687476</td><td>0.127285205</td><td>36910</td></tr> </tbody> </table> <p>gem: dabcgefjhimklpnosqrvtuxw musrdqxnjkpajivwbecoflth h0 v48 tojuckvnlxswhmbqafrdgie</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	-0.500000000	34	05	0.674473890	-0.824367653	82	06	0.288675135	1.000000000	379	07	0.439513355	0.880313964	838	08	0.079256334	0.250000000	2428	09	0.138728663	0.044504251	4732	10	0.454915028	-0.351264694	10741	11	0.676625972	0.045431633	18994	12	0.198687476	0.127285205	36910	<p>U[1264] edges: 9 blocks: 1 orient: + U[1454] edges: 9 blocks: 1 orient: - U[2016] edges: 9 blocks: 1 orient: +</p> <p>U[1374] edges: 9 blocks: 1 orient: + U[1718] edges: 9 blocks: 1 orient: + U[2151] edges: 9 blocks: 1 orient: +</p> <p>U[1434] edges: 9 blocks: 1 orient: - U[1808] edges: 9 blocks: 1 orient: + U[2251] edges: 9 blocks: 1 orient: +</p>
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<p>U[3065] edges: 9 blocks: 1 orient: -</p> <p>9₁₀₇ (0) 3¹ 1 blinks</p> <p>$r_?$ #ts(partial) 356</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>-0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.250000000</td><td>66</td></tr> <tr><td>05</td><td>0.659357578</td><td>-0.565658810</td><td>130</td></tr> <tr><td>06</td><td>0.500000000</td><td>0.500000000</td><td>859</td></tr> <tr><td>07</td><td>0.608148883</td><td>0.890888961</td><td>1588</td></tr> <tr><td>08</td><td>1.003135866</td><td>0.375000000</td><td>5684</td></tr> <tr><td>09</td><td>1.072479696</td><td>-0.646494052</td><td>9780</td></tr> <tr><td>10</td><td>0.434752416</td><td>0.131317619</td><td>25405</td></tr> <tr><td>11</td><td>0.574894724</td><td>0.905404102</td><td>41030</td></tr> <tr><td>12</td><td>0.616286842</td><td>0.240727997</td><td>87686</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmposqrutvzxyBA hAxidkBaevusonytqjrfclcwmpg h0 v56 jugfnocwhxqkpsdBlaezbyaiwrm</p>	r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	2	04	0.500000000	0.250000000	66	05	0.659357578	-0.565658810	130	06	0.500000000	0.500000000	859	07	0.608148883	0.890888961	1588	08	1.003135866	0.375000000	5684	09	1.072479696	-0.646494052	9780	10	0.434752416	0.131317619	25405	11	0.574894724	0.905404102	41030	12	0.616286842	0.240727997	87686	<p>U[1320] edges: 9 blocks: 2 orient: +</p>
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<p>9₁₀₈ (0) 6¹ 5 blinks</p> <p>$r_?$ #ts(full) 30</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.382683432</td><td>-0.750000000</td><td>42</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>148</td></tr> <tr><td>06</td><td>0.707106781</td><td>-0.250000000</td><td>597</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>1664</td></tr> <tr><td>08</td><td>0.287265358</td><td>-0.125000000</td><td>4616</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>10720</td></tr> <tr><td>10</td><td>1.071080574</td><td>0.554599790</td><td>24125</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>48980</td></tr> <tr><td>12</td><td>0.207106781</td><td>-0.875000000</td><td>96186</td></tr> </tbody> </table> <p>gem: dabcgefjhimklpnorg jrmedcognabqfihlpk h0 v36 qlifodcpkgjbamrhne</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	0.382683432	-0.750000000	42	05	0.000000000	0.000000000	148	06	0.707106781	-0.250000000	597	07	0.000000000	0.000000000	1664	08	0.287265358	-0.125000000	4616	09	0.000000000	0.000000000	10720	10	1.071080574	0.554599790	24125	11	0.000000000	0.000000000	48980	12	0.207106781	-0.875000000	96186	<p>U[1355] edges: 9 blocks: 3 orient: + U[2357] edges: 9 blocks: 2 orient: -</p> <p>U[1874] edges: 9 blocks: 2 orient: + U[2675] edges: 9 blocks: 1 orient: -</p> <p>U[2329] edges: 9 blocks: 1 orient: +</p>
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<p>9₁₁₁ (0) 9¹ 2 blinks</p> <p>r?⁵⁰ #ts(full) 16</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.000000000</td><td>34</td></tr> <tr><td>05</td><td>0.407505394</td><td>0.065658810</td><td>70</td></tr> <tr><td>06</td><td>0.500000000</td><td>-0.500000000</td><td>319</td></tr> <tr><td>07</td><td>0.470386173</td><td>-0.499390308</td><td>658</td></tr> <tr><td>08</td><td>0.415512481</td><td>0.000000000</td><td>1816</td></tr> <tr><td>09</td><td>0.527905174</td><td>0.137557362</td><td>3496</td></tr> <tr><td>10</td><td>0.166060646</td><td>-0.131317619</td><td>7561</td></tr> <tr><td>11</td><td>0.198473994</td><td>-0.304013785</td><td>13414</td></tr> <tr><td>12</td><td>0.635497309</td><td>-0.102416382</td><td>25114</td></tr> </tbody> </table> <p>gem: eabcdhfgkijnlmporqtsvuywx hnqxfewkgosvjrmypbautlidc h0 v50 qjgyxnuihbrkeswfalpmcovtd</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	0.000000000	34	05	0.407505394	0.065658810	70	06	0.500000000	-0.500000000	319	07	0.470386173	-0.499390308	658	08	0.415512481	0.000000000	1816	09	0.527905174	0.137557362	3496	10	0.166060646	-0.131317619	7561	11	0.198473994	-0.304013785	13414	12	0.635497309	-0.102416382	25114	<p>U[1367] edges: 9 blocks: 1 orient: +</p> <p>U[2844] edges: 9 blocks: 1 orient: +</p>	<p>9₁₁₂ (0) 3¹ 6 blinks</p> <p>r?⁵² #ts(full) 12</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.250000000</td><td>34</td></tr> <tr><td>05</td><td>0.659357578</td><td>0.165658810</td><td>70</td></tr> <tr><td>06</td><td>0.500000000</td><td>-0.500000000</td><td>319</td></tr> <tr><td>07</td><td>0.479972316</td><td>-0.040515544</td><td>658</td></tr> <tr><td>08</td><td>0.303427098</td><td>-0.375000000</td><td>1816</td></tr> <tr><td>09</td><td>0.758846336</td><td>0.125312257</td><td>3496</td></tr> <tr><td>10</td><td>0.434752416</td><td>0.668682381</td><td>7561</td></tr> <tr><td>11</td><td>0.951726811</td><td>-0.509284632</td><td>13414</td></tr> <tr><td>12</td><td>0.704155434</td><td>0.219672871</td><td>25114</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmqopsrutxvwzy kjwydtihmarqglxbofszucpev h0 v52 msxjplkzfnciodaeuqvyrbtgwh</p>	r	mod	theta/pi	#sts	03	0.707106781	0.500000000	2	04	0.500000000	-0.250000000	34	05	0.659357578	0.165658810	70	06	0.500000000	-0.500000000	319	07	0.479972316	-0.040515544	658	08	0.303427098	-0.375000000	1816	09	0.758846336	0.125312257	3496	10	0.434752416	0.668682381	7561	11	0.951726811	-0.509284632	13414	12	0.704155434	0.219672871	25114
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<p>U[1368] edges: 9 blocks: 1 orient: +</p> <p>U[2969] edges: 9 blocks: 1 orient: -</p> <p>U[2845] edges: 9 blocks: 1 orient: +</p> <p>U[3057] edges: 9 blocks: 2 orient: +</p> <p>U[2865] edges: 9 blocks: 2 orient: +</p> <p>U[3217] edges: 9 blocks: 1 orient: +</p>	<p>U[1371] edges: 9 blocks: 1 orient: +</p>	<p>9₁₁₃ (0) 9¹ 1 blinks</p> <p>r?⁶² #ts(partial) 601</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>34</td></tr> <tr><td>05</td><td>0.676651102</td><td>0.720655987</td><td>70</td></tr> <tr><td>06</td><td>0.500000000</td><td>-0.500000000</td><td>319</td></tr> <tr><td>07</td><td>0.979531220</td><td>-0.266068303</td><td>658</td></tr> <tr><td>08</td><td>0.191341716</td><td>0.500000000</td><td>1816</td></tr> <tr><td>09</td><td>1.146895383</td><td>0.453921945</td><td>3496</td></tr> <tr><td>10</td><td>0.457856714</td><td>0.558688026</td><td>7561</td></tr> <tr><td>11</td><td>0.318669577</td><td>0.060252228</td><td>13414</td></tr> <tr><td>12</td><td>0.795227552</td><td>-0.877285205</td><td>25114</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmqoptrsvuywxAzCBED kEwedvlihgtjAnzrqBacyuCmxoDpsb h0 v62 qhmDpkuCERfxcbdeavwgtjAiBysznol</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	34	05	0.676651102	0.720655987	70	06	0.500000000	-0.500000000	319	07	0.979531220	-0.266068303	658	08	0.191341716	0.500000000	1816	09	1.146895383	0.453921945	3496	10	0.457856714	0.558688026	7561	11	0.318669577	0.060252228	13414	12	0.795227552	-0.877285205	25114																																												
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9₁₁₆ (0) 4 ¹ 1 blinks	U[1380] edges: 9 blocks: 2 orient: +	9₁₁₇ (0) 1 blinks
r? ⁵⁰ #ts(partial) 905		r? ⁴⁶ #ts(partial) 604
r mod theta/pi #sts		r mod theta/pi #sts
03 1.000000000 -0.250000000 4		03 0.707106781 0.000000000 4
04 0.707106781 0.125000000 46		04 0.500000000 0.000000000 72
05 1.849943576 -0.317079923 160		05 0.721222998 0.163081267 268
06 0.577350269 0.333333333 693		06 0.288675135 0.000000000 1257
07 2.776256795 -0.195314919 1916		07 0.270927115 -0.494655207 3704
08 0.649286435 -0.407718179 5560		08 0.349854384 1.000000000 10976
09 4.292555538 -0.342044098 12820		09 0.343706491 0.220825926 26440
10 3.537383539 -0.768578374 29725		10 0.520162612 -0.326162534 61625
11 2.810921732 -0.499663716 59960		11 0.460650972 -0.564461072 128060
12 4.559108336 -0.969791948 120222		12 0.825249981 -0.146275019 256776
gem: dabcefghimklpnosqrutwvx jvspdotgrachumfebyklnqxi h0 v50 ltiysavmcobjxgwpburenkh		gem: dabcefghimklpnosqrutwv jvuedlograpfcmhkbwtsgn h0 v46 rghmaoicbtjnvwuqpedkfsl
U[1424] edges: 9 blocks: 1 orient: +	9₁₁₈ (0) 3 ² 2 blinks	U[1425] edges: 9 blocks: 1 orient: +
	r? ⁴⁰ #ts(full) 1	
r mod theta/pi #sts		U[3040] edges: 9 blocks: 1 orient: -
03 0.707106781 0.000000000 4		
04 0.500000000 0.000000000 72		
05 0.141995114 0.000000000 268		
06 0.866025404 0.000000000 1257		
07 0.748757834 -0.134383415 3704		
08 0.574025149 0.000000000 10976		
09 0.234325518 -0.666666667 26440		
10 0.020162612 0.000000000 61625		
11 0.182357329 0.175477954 128060		
12 0.895233401 -0.134073673 256776		
gem: dabchefgkjnlmporqts kqsedcoihnmgrjltpafb h0 v40 qgmjoibrntlkcfshaped		
9₁₁₉ (0) 3 ² 5 blinks	U[1428] edges: 9 blocks: 1 orient: +	U[3038] edges: 9 blocks: 1 orient: -
r? ³⁶ #ts(full) 2		
r mod theta/pi #sts		U[2130] edges: 9 blocks: 1 orient: -
03 0.707106781 0.000000000 4		
04 0.500000000 0.000000000 72		U[3090] edges: 9 blocks: 1 orient: -
05 0.371748034 0.200000000 268		
06 0.866025404 0.000000000 1257		
07 0.770142225 0.067203793 3704		
08 0.732537816 0.000000000 10976		
09 0.124682004 0.888888889 26440		
10 0.138196601 -0.400000000 61625		
11 0.206831122 0.163761201 128060		
12 0.344136804 -0.127285205 256776		
gem: dabcefjhimklpnorg jmpmrdlhgfnoiqakbce h0 v36 pohmibrcegjqdlfank		
9₁₂₀ (0) 3 ¹ 2 blinks	U[2243] edges: 9 blocks: 1 orient: +	9₁₂₁ (0) 3 blinks
r? ⁵⁸ #ts(full) 1		r? ⁵² #ts(full) 4
r mod theta/pi #sts		r mod theta/pi #sts
03 0.707106781 -0.500000000 2		03 0.707106781 0.000000000 2
04 0.500000000 0.250000000 34		04 0.500000000 1.000000000 34
05 0.251852184 0.965658810 74		05 0.219149851 -0.075632347 74
06 0.500000000 0.500000000 335		06 0.288675135 0.000000000 335
07 0.57799334 0.510981805 722		07 0.622363437 -0.626079932 722
08 0.144914431 0.375000000 2020		08 0.349854384 -0.500000000 2020
09 0.119796837 -0.699338324 3940		09 0.527831488 0.477942100 3940
10 0.063429523 -0.931317619 8689		10 0.048026657 0.151264694 8689
11 0.765388933 0.652162014 15446		11 0.579671906 0.808161774 15446
12 0.784902329 -0.297226098 29406		12 0.874348881 -0.986927388 29406
gem: dabchefgljiknmqoptrsuvzxyCABED hEzedyisnfAoltmCvqagDrBwjckxpub h0 v62 npfEsBohavmwjgbidzutlkrDCyeAx		gem: eabcdifgljkomnrpqustxvwzy lnwgfedzriuoqxaysjqymtpbch h0 v52 uinyltvpbwfsrchogzeakaqjdxm
U[1432] edges: 9 blocks: 1 orient: +	9₁₂₂ (0) 3 ¹ 4 blinks	U[1442] edges: 9 blocks: 1 orient: +
	r? ⁵⁴ #ts(full) 14	
U[1452] edges: 9 blocks: 1 orient: +	r mod theta/pi #sts	U[3073] edges: 9 blocks: 1 orient: +
	03 0.707106781 -0.500000000 2	
U[2907] edges: 9 blocks: 2 orient: -	04 0.500000000 -0.750000000 34	U[2198] edges: 9 blocks: 1 orient: +
	05 0.587011475 0.728007122 82	
	06 0.500000000 0.500000000 379	U[2856] edges: 9 blocks: 1 orient: +
	07 0.443518390 -0.878071379 838	
	08 0.686110531 -0.125000000 2428	
	09 0.150758159 -0.706211732 4732	
	10 0.344582472 -0.456014245 10741	
	11 0.508037201 -0.855155686 18994	
	12 0.107480158 -0.156593252 36910	
gem: dabchefgljiknmqoptrsuvzxyAx hAiедpxuzqvmlrntcokfysjagwb h0 v54 qzfwsnbihApuxcvkjdyltormega		

9₁₂₃ (1)	2 blinks	U[1446] edges: 9 blocks: 1 orient: +	9₁₂₄ (0)	1 blinks
r?	#ts(full) 1884	U[1824] edges: 9 blocks: 1 orient: +	r?	#ts(full) 2
r 03 04 05 06 07 08 09 10 11 12	mod 1.000000000 0.000000000 0.726542528 0.000000000 0.782077483 0.414213562 0.994158976 1.121318070 0.801614021 0.779548045	theta/pi 0.000000000 0.000000000 -0.700000000 0.000000000 0.222269693 -0.250000000 -0.388888889 -0.424367653 -0.631554794 -0.388311615	#sts 4 72 268 1257 3704 10976 26440 61625 128060 256776	
gem: h0 v48	dabchefgkijnlmporqtsvuxw kwnedcvihaoarpsxgblfutmqj		gem: h0 v50	dabcgefjhimklpnosqrutwvyx joredcxgkapyumwilfvsnthq
	h0 v48 fvitludxpbekhgnocowrgajsm			h0 v50 lsehcbywgjnvakqpufoxmdri
U[1458] edges: 9 blocks: 1 orient: +	9₁₂₅ (0)	1 blinks	U[1461] edges: 9 blocks: 1 orient: +	
	r?	#ts(full) 27		
r 03 04 05 06 07 08 09 10 11 12	mod 0.707106781 0.500000000 0.822620061 0.288675135 0.693937186 0.191341716 0.678127866 0.676703764 1.029667938 0.674304208	theta/pi 0.000000000 1.000000000 0.644778926 0.000000000 -0.091603978 0.500000000 0.620105881 0.710442147 -0.887783113 -0.652817568	#sts 2 34 70 319 658 1816 3496 7561 13414 25114	
gem: h0 v62	dabchefgkijnlmqopsrv tuywxAzCBED hgxkdEqacrDfjonvBmtswAuiCypbzcl			
	h0 v62 jvfxncuzhCskEydwDqlBgbmoeitAarp			
9₁₂₆ (0)	5 blinks	U[1466] edges: 9 blocks: 1 orient: +	U[2233] edges: 9 blocks: 1 orient: +	
r?	#ts(full) 1			
r 03 04 05 06 07 08 09 10 11 12	mod 0.707106781 0.500000000 0.141995114 0.288675135 0.314455055 0.191341716 0.095251192 0.020162612 0.301979940 0.999011926	theta/pi 0.000000000 0.000000000 -0.200000000 0.000000000 -0.481345143 1.000000000 0.892177536 0.400000001 -0.138824522 -0.074618671	#sts 4 42 176 705 2184 6124 15028 34213 71688 142038	
gem: h0 v48	dabchefgkijmlpnorqtsvuxw hupxdqkjnvgbimftowrclase			
	h0 v48 wsvlmcrihpdkegaxunbqtfj			
U[1563] edges: 9 blocks: 1 orient: +	U[1738] edges: 9 blocks: 1 orient: +			
9₁₂₇ (0)	16 blinks	U[1469] edges: 9 blocks: 1 orient: +	U[2135] edges: 9 blocks: 1 orient: +	U[2505] edges: 9 blocks: 1 orient: +
r?	#ts(full) 1			
r 03 04 05 06 07 08 09 10 11 12	mod 0.707106781 0.500000000 0.573741760 0.288675135 0.302368913 0.191341716 0.446412923 0.329177960 0.753386966 1.092784174	theta/pi 0.000000000 0.000000000 0.675632347 0.000000000 0.302547636 0.000000000 0.398777273 0.648735306 0.349720505 0.151271810	#sts 4 42 176 705 2184 6124 15028 34213 71688 142038	
gem: h0 v42	eabcdifghljkomnqpsrut isjuftetmqorhlgcakbnd			
	h0 v42 kjhpnucbiasfrdogetlm			
U[2805] edges: 9 blocks: 1 orient: +	U[3094] edges: 9 blocks: 1 orient: +	U[3357] edges: 9 blocks: 2 orient: -		
U[2868] edges: 9 blocks: 1 orient: +	U[3104] edges: 9 blocks: 2 orient: -			
U[3000] edges: 9 blocks: 1 orient: -	U[3218] edges: 9 blocks: 2 orient: -			

<p>9₁₂₈ (0) 3¹ 6 blinks</p> <p>$r_?$ #ts(full) 2</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>-0.500000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.750000000</td><td>34</td></tr> <tr><td>05</td><td>0.547263648</td><td>0.300000000</td><td>74</td></tr> <tr><td>06</td><td>0.500000000</td><td>0.500000000</td><td>335</td></tr> <tr><td>07</td><td>1.173773800</td><td>-0.743060031</td><td>722</td></tr> <tr><td>08</td><td>0.237769002</td><td>0.875000000</td><td>2020</td></tr> <tr><td>09</td><td>0.454055849</td><td>-0.279103222</td><td>3940</td></tr> <tr><td>10</td><td>0.299497500</td><td>0.400000000</td><td>8689</td></tr> <tr><td>11</td><td>0.670224239</td><td>-0.785829873</td><td>15446</td></tr> <tr><td>12</td><td>0.726132972</td><td>0.488870328</td><td>29406</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmjqoptrsuvyxAzDBC hnzDdpvutqlkByswCaoirgfmcbxAje h0 v60 CBrvkmbihxuqswnctpfeAojDydgaz</p>		mod	theta/pi	#sts	03	0.707106781	-0.500000000	2	04	0.500000000	-0.750000000	34	05	0.547263648	0.300000000	74	06	0.500000000	0.500000000	335	07	1.173773800	-0.743060031	722	08	0.237769002	0.875000000	2020	09	0.454055849	-0.279103222	3940	10	0.299497500	0.400000000	8689	11	0.670224239	-0.785829873	15446	12	0.726132972	0.488870328	29406	<p>U[1474] edges: 9 blocks: 1 orient: + U[2296] edges: 9 blocks: 1 orient: - U[2212] edges: 9 blocks: 1 orient: - U[3116] edges: 9 blocks: 1 orient: + U[2269] edges: 9 blocks: 1 orient: + U[3118] edges: 9 blocks: 1 orient: +</p>																																												
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<p>U[3293] edges: 9 blocks: 2 orient: +</p> 	<p>9₁₃₄ (1) 1 blinks</p> <p>$r_{?}^{36}$ #ts(full) 10</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>0.000000000</td><td>8</td></tr> <tr><td>04</td><td>1.000000000</td><td>0.000000000</td><td>76</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>416</td></tr> <tr><td>06</td><td>1.000000000</td><td>0.333333333</td><td>1875</td></tr> <tr><td>07</td><td>1.563662965</td><td>0.214285714</td><td>6760</td></tr> <tr><td>08</td><td>2.414213562</td><td>0.000000000</td><td>21160</td></tr> <tr><td>09</td><td>1.532088886</td><td>-0.111111111</td><td>58248</td></tr> <tr><td>10</td><td>1.000000000</td><td>0.000000000</td><td>145685</td></tr> <tr><td>11</td><td>2.058270847</td><td>0.251847142</td><td>334928</td></tr> <tr><td>12</td><td>2.909312911</td><td>0.054978281</td><td>719652</td></tr> </tbody> </table> <p>gem: dabcefghimklpnosqr jpfedcogqminalrbkh h0 v36 ofmjiknqlpbergadhc</p>	r	mod	theta/pi	#sts	03	1.000000000	0.000000000	8	04	1.000000000	0.000000000	76	05	0.000000000	0.000000000	416	06	1.000000000	0.333333333	1875	07	1.563662965	0.214285714	6760	08	2.414213562	0.000000000	21160	09	1.532088886	-0.111111111	58248	10	1.000000000	0.000000000	145685	11	2.058270847	0.251847142	334928	12	2.909312911	0.054978281	719652	<p>U[1497] edges: 9 blocks: 2 orient: +</p> 																																												
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11	1.236234838	0.479293735	54020																																																																																							
12	1.527525232	0.314481141	105676																																																																																							
<p>9₁₄₉ (0) 9¹ 2 blinks</p> <p>$r_?$ #ts(full) 4</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>66</td></tr> <tr><td>05</td><td>0.721222998</td><td>0.836918733</td><td>130</td></tr> <tr><td>06</td><td>0.500000000</td><td>0.500000000</td><td>859</td></tr> <tr><td>07</td><td>0.707019336</td><td>-0.181056531</td><td>1588</td></tr> <tr><td>08</td><td>0.032829048</td><td>-0.500000000</td><td>5684</td></tr> <tr><td>09</td><td>0.734667690</td><td>0.230094329</td><td>9780</td></tr> <tr><td>10</td><td>0.520162612</td><td>0.326162534</td><td>25405</td></tr> <tr><td>11</td><td>0.350764584</td><td>-0.541110082</td><td>41030</td></tr> <tr><td>12</td><td>0.612372436</td><td>0.750000000</td><td>87686</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmporqustwvyxAz krfedcuwhApjqxqnaosbmgtivzyl h0 v54 Aymkrltacegvipxwzjogfunsbh</p>		mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	66	05	0.721222998	0.836918733	130	06	0.500000000	0.500000000	859	07	0.707019336	-0.181056531	1588	08	0.032829048	-0.500000000	5684	09	0.734667690	0.230094329	9780	10	0.520162612	0.326162534	25405	11	0.350764584	-0.541110082	41030	12	0.612372436	0.750000000	87686	<p>U[1589] edges: 9 blocks: 1 orient: +</p> <p>U[1682] edges: 9 blocks: 1 orient: +</p>	<p>9₁₅₀ (0) 5¹ 5 blinks</p> <p>$r_?$ #ts(full) 17</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.500000000</td><td>66</td></tr> <tr><td>05</td><td>0.437016024</td><td>0.100000000</td><td>130</td></tr> <tr><td>06</td><td>0.288675135</td><td>1.000000000</td><td>859</td></tr> <tr><td>07</td><td>0.472606344</td><td>0.656967215</td><td>1588</td></tr> <tr><td>08</td><td>0.303427098</td><td>0.750000000</td><td>5684</td></tr> <tr><td>09</td><td>0.595668315</td><td>0.228902444</td><td>9780</td></tr> <tr><td>10</td><td>0.190983006</td><td>-0.200000000</td><td>25405</td></tr> <tr><td>11</td><td>0.635287354</td><td>-0.228600564</td><td>41030</td></tr> <tr><td>12</td><td>0.538030402</td><td>-0.738153184</td><td>87686</td></tr> </tbody> </table> <p>gem: dabcefghimklpnosqrutvw jrqedcugkpitnmsawbovhlf h0 v46 tlojbkqnswreahcgpflumvid</p>		mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	0.500000000	66	05	0.437016024	0.100000000	130	06	0.288675135	1.000000000	859	07	0.472606344	0.656967215	1588	08	0.303427098	0.750000000	5684	09	0.595668315	0.228902444	9780	10	0.190983006	-0.200000000	25405	11	0.635287354	-0.228600564	41030	12	0.538030402	-0.738153184	87686
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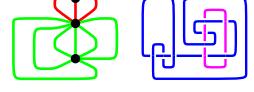
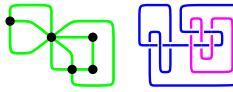
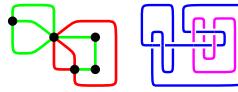
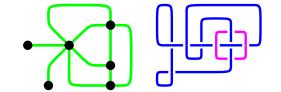
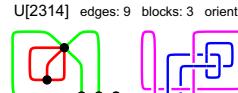
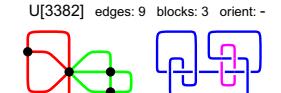
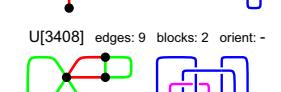
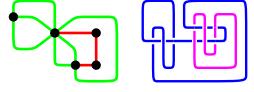
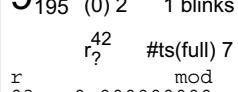
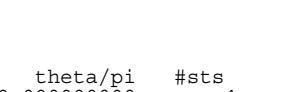
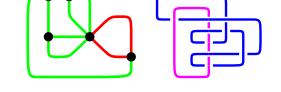
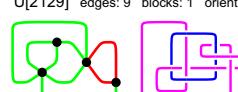
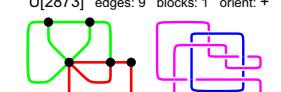
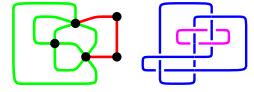
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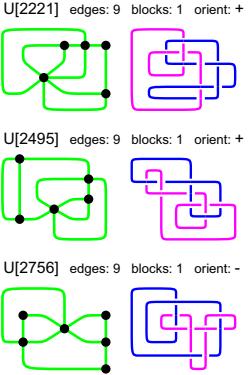
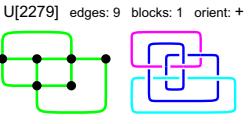
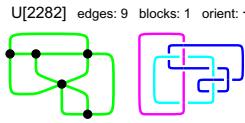
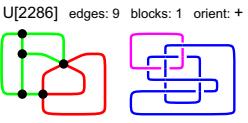
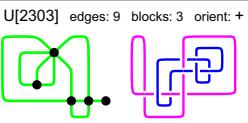
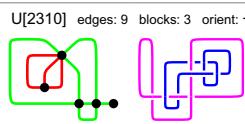
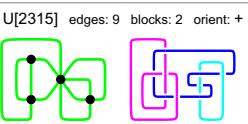
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<p>U[2072] edges: 9 blocks: 3 orient: +</p> 	<p>9₁₉₆ (0) 6 blinks</p> <p>r?⁴² #ts(full) 1</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.000000000</td><td>42</td></tr> <tr><td>05</td><td>0.798872081</td><td>-0.454068341</td><td>160</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>637</td></tr> <tr><td>07</td><td>0.210928687</td><td>-0.384973272</td><td>1904</td></tr> <tr><td>08</td><td>0.574025149</td><td>1.000000000</td><td>5284</td></tr> <tr><td>09</td><td>0.530873376</td><td>-0.881393180</td><td>12772</td></tr> <tr><td>10</td><td>0.638196601</td><td>0.908136683</td><td>28881</td></tr> <tr><td>11</td><td>0.173442465</td><td>0.855274413</td><td>60016</td></tr> <tr><td>12</td><td>0.333576802</td><td>-0.244881019</td><td>118422</td></tr> </tbody> </table> <p>gem: dabchefgkijnlmqopsrut krnedcmphosbqfuigtalj h0 v42 enqfidpuat1krbmgcojsh</p>		mod	theta/pi	#sts	03	0.707106781	0.000000000	4	04	0.500000000	0.000000000	42	05	0.798872081	-0.454068341	160	06	0.288675135	0.000000000	637	07	0.210928687	-0.384973272	1904	08	0.574025149	1.000000000	5284	09	0.530873376	-0.881393180	12772	10	0.638196601	0.908136683	28881	11	0.173442465	0.855274413	60016	12	0.333576802	-0.244881019	118422	<p>U[2089] edges: 9 blocks: 2 orient: +</p>  <p>U[2426] edges: 9 blocks: 1 orient: +</p>  <p>U[2129] edges: 9 blocks: 1 orient: +</p>  <p>U[2873] edges: 9 blocks: 1 orient: +</p>  <p>U[2245] edges: 9 blocks: 1 orient: +</p>  <p>U[3092] edges: 9 blocks: 1 orient: +</p> 																																												
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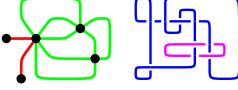
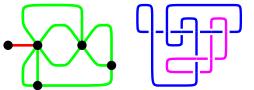
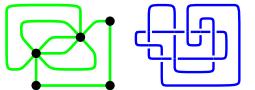
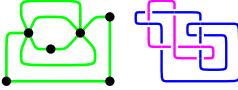
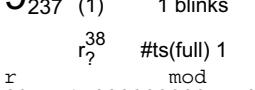
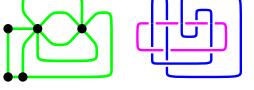
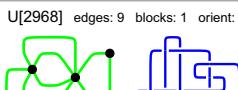
<p>9₁₉₈ (0) 4¹ 3 blinks</p> <p>r?⁴⁴ #ts(full) 3</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>1.000000000</td><td>-0.250000000</td><td>4</td></tr> <tr><td>04</td><td>0.707106781</td><td>-0.875000000</td><td>24</td></tr> <tr><td>05</td><td>1.019963345</td><td>0.613081267</td><td>108</td></tr> <tr><td>06</td><td>0.577350269</td><td>0.333333333</td><td>373</td></tr> <tr><td>07</td><td>0.626986706</td><td>-0.407171361</td><td>1160</td></tr> <tr><td>08</td><td>0.240024675</td><td>-0.518826703</td><td>3120</td></tr> <tr><td>09</td><td>0.176994028</td><td>-0.731741997</td><td>7612</td></tr> <tr><td>10</td><td>0.480422450</td><td>-0.584289187</td><td>17033</td></tr> <tr><td>11</td><td>0.120592553</td><td>-0.607749288</td><td>35540</td></tr> <tr><td>12</td><td>0.570467044</td><td>-0.224137481</td><td>69780</td></tr> </tbody> </table> <p>gem: dabcefghimklpnorqtsvu jspdqlgtahumvrockinf h0 v44 rptlknausejqcfibdgovhm</p>		mod	theta/pi	#sts	03	1.000000000	-0.250000000	4	04	0.707106781	-0.875000000	24	05	1.019963345	0.613081267	108	06	0.577350269	0.333333333	373	07	0.626986706	-0.407171361	1160	08	0.240024675	-0.518826703	3120	09	0.176994028	-0.731741997	7612	10	0.480422450	-0.584289187	17033	11	0.120592553	-0.607749288	35540	12	0.570467044	-0.224137481	69780	<p>U[2108] edges: 9 blocks: 1 orient: +</p> <p>U[2803] edges: 9 blocks: 1 orient: +</p> <p>U[2998] edges: 9 blocks: 1 orient: -</p>	<p>9₁₉₉ (0) 3 blinks</p> <p>r?⁴⁶ #ts(full) 2</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.500000000</td><td>0.000000000</td><td>42</td></tr> <tr><td>05</td><td>0.141995114</td><td>-0.200000000</td><td>160</td></tr> <tr><td>06</td><td>0.288675135</td><td>0.000000000</td><td>637</td></tr> <tr><td>07</td><td>0.414566728</td><td>0.360635685</td><td>1904</td></tr> <tr><td>08</td><td>0.349854384</td><td>0.000000000</td><td>5284</td></tr> <tr><td>09</td><td>0.109759133</td><td>-0.195676243</td><td>12772</td></tr> <tr><td>10</td><td>0.020162612</td><td>0.400000001</td><td>28881</td></tr> <tr><td>11</td><td>0.138394539</td><td>-0.368826858</td><td>60016</td></tr> <tr><td>12</td><td>0.606725372</td><td>0.018844586</td><td>118422</td></tr> </tbody> </table> <p>gem: dabcefghimklpnosqrutwv jwredcmgtagohsukpfbylin h0 v46 vlufhwtpsrjbnmaegkiqcod</p>		mod	theta/pi	#sts	03	0.707106781	0.000000000	4	04	0.500000000	0.000000000	42	05	0.141995114	-0.200000000	160	06	0.288675135	0.000000000	637	07	0.414566728	0.360635685	1904	08	0.349854384	0.000000000	5284	09	0.109759133	-0.195676243	12772	10	0.020162612	0.400000001	28881	11	0.138394539	-0.368826858	60016	12	0.606725372	0.018844586	118422
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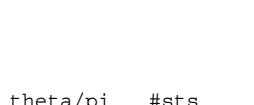
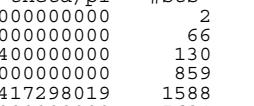
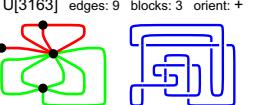
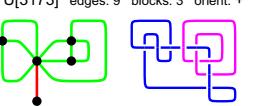
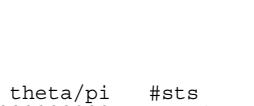
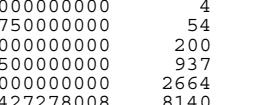
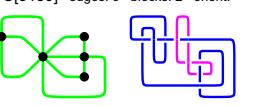
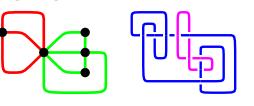
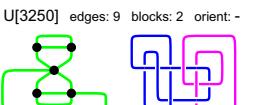
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<p>U[2842] edges: 9 blocks: 3 orient: +</p> <p>9₂₂₈ (0) 2¹ 1 blinks</p> <p>$r_{?}^{42}$ #ts(full) 135</p> <table border="1"> <thead> <tr> <th></th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.923879533</td><td>-0.500000000</td><td>26</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>84</td></tr> <tr><td>06</td><td>0.788675135</td><td>1.000000000</td><td>275</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>696</td></tr> <tr><td>08</td><td>1.137515221</td><td>0.181321079</td><td>1684</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>3576</td></tr> <tr><td>10</td><td>0.745030197</td><td>-0.711398553</td><td>7253</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>13596</td></tr> <tr><td>12</td><td>0.720274043</td><td>0.809636397</td><td>24526</td></tr> </tbody> </table> <p>gem: dabcefghimklongpsrut jkpndqmglurthecosbfia h0 v42 rhlusciopkjfnmbgaqted</p>		mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	0.923879533	-0.500000000	26	05	0.000000000	0.000000000	84	06	0.788675135	1.000000000	275	07	0.000000000	0.000000000	696	08	1.137515221	0.181321079	1684	09	0.000000000	0.000000000	3576	10	0.745030197	-0.711398553	7253	11	0.000000000	0.000000000	13596	12	0.720274043	0.809636397	24526	<p>U[2860] edges: 9 blocks: 3 orient: +</p>																																													
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<p>9₂₄₀ (0) 11¹ 1 blinks</p> <p>r?³⁸ #ts(partial) 747</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>-0.500000000</td><td>4</td></tr> <tr><td>04</td><td>0.500000000</td><td>-0.750000000</td><td>30</td></tr> <tr><td>05</td><td>0.573741760</td><td>0.775632347</td><td>112</td></tr> <tr><td>06</td><td>0.288675135</td><td>1.000000000</td><td>421</td></tr> <tr><td>07</td><td>0.392119039</td><td>0.838488000</td><td>1224</td></tr> <tr><td>08</td><td>0.079256334</td><td>0.875000000</td><td>3332</td></tr> <tr><td>09</td><td>0.545448276</td><td>0.087791193</td><td>7924</td></tr> <tr><td>10</td><td>0.329179607</td><td>-0.551264694</td><td>17745</td></tr> <tr><td>11</td><td>0.358052662</td><td>0.847264730</td><td>36528</td></tr> <tr><td>12</td><td>0.739637029</td><td>0.750000000</td><td>71666</td></tr> </tbody> </table> <p>gem: dabcefghimklongpsr jimedpsgkabrgqlfocnh h0 v38 pflihbaoqrjsnmegdkc</p>	r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	4	04	0.500000000	-0.750000000	30	05	0.573741760	0.775632347	112	06	0.288675135	1.000000000	421	07	0.392119039	0.838488000	1224	08	0.079256334	0.875000000	3332	09	0.545448276	0.087791193	7924	10	0.329179607	-0.551264694	17745	11	0.358052662	0.847264730	36528	12	0.739637029	0.750000000	71666	<p>U[3020] edges: 9 blocks: 4 orient: +</p>	<p>9₂₄₁ (0) 6¹ 1 blinks</p> <p>r?⁴⁰ #ts(full) 186</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.382683432</td><td>-0.250000000</td><td>38</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>120</td></tr> <tr><td>06</td><td>0.707106781</td><td>0.250000000</td><td>467</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>1156</td></tr> <tr><td>08</td><td>0.398298698</td><td>-0.131423364</td><td>3084</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>6420</td></tr> <tr><td>10</td><td>0.672406094</td><td>-0.866882449</td><td>13845</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>25520</td></tr> <tr><td>12</td><td>0.150874815</td><td>0.676051343</td><td>47986</td></tr> </tbody> </table> <p>gem: dabcefghimklpnorqts jrpodthgmafsqlecibnk h0 v40 fkiprlsmnbjaecqtongd</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	0.382683432	-0.250000000	38	05	0.000000000	0.000000000	120	06	0.707106781	0.250000000	467	07	0.000000000	0.000000000	1156	08	0.398298698	-0.131423364	3084	09	0.000000000	0.000000000	6420	10	0.672406094	-0.866882449	13845	11	0.000000000	0.000000000	25520	12	0.150874815	0.676051343	47986
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08	0.844623199	-0.125000000	680																																																																																						
09	0.618213611	-0.972875060	1312																																																																																						
10	0.638196601	0.691863317	2405																																																																																						
11	0.707106781	-0.227272727	4148																																																																																						
12	0.105662433	0.750000000	6882																																																																																						

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04	0.707106781	-0.375000000	46																																																																																							
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<p>9₂₉₅ (0) 9¹ 3 blinks</p> <p>r?³⁴ #ts(full) 6</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.707106781</td><td>0.000000000</td><td>2</td></tr> <tr><td>04</td><td>0.500000000</td><td>1.000000000</td><td>18</td></tr> <tr><td>05</td><td>1.395425955</td><td>0.830853420</td><td>34</td></tr> <tr><td>06</td><td>0.500000000</td><td>0.500000000</td><td>115</td></tr> <tr><td>07</td><td>1.264734066</td><td>-0.274440876</td><td>196</td></tr> <tr><td>08</td><td>1.497904681</td><td>-0.500000000</td><td>452</td></tr> <tr><td>09</td><td>0.621819268</td><td>0.722222222</td><td>708</td></tr> <tr><td>10</td><td>1.947213596</td><td>0.338293159</td><td>1333</td></tr> <tr><td>11</td><td>1.413283216</td><td>0.087154858</td><td>1958</td></tr> <tr><td>12</td><td>1.228403271</td><td>-0.774572427</td><td>3254</td></tr> </tbody> </table> <p>gem: dabcefjhimklongp jmoedcqgpainblfkh h0 v34 pfkjnlameqcbehigod</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	1.000000000	18	05	1.395425955	0.830853420	34	06	0.500000000	0.500000000	115	07	1.264734066	-0.274440876	196	08	1.497904681	-0.500000000	452	09	0.621819268	0.722222222	708	10	1.947213596	0.338293159	1333	11	1.413283216	0.087154858	1958	12	1.228403271	-0.774572427	3254	<p>U[3421] edges: 9 blocks: 5 orient: +</p> <p>U[3425] edges: 9 blocks: 4 orient: +</p> <p>U[3432] edges: 9 blocks: 3 orient: +</p>																																												
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APPENDIX B

The 14 composite spaces in U

We here present the 14 spaces induced from g-blanks in U . Their “connected sum” details: what prime spaces compose to them are shown in Chapter 5. The elements of this presentation are the same as the explained in Appendix A.

6^c 6₁ $(0) 2^2$ 10 blinks r_1^{14} #ts(full) 1	U[49] edges: 6 blocks: 1 orient: + U[218] edges: 8 blocks: 1 orient: + U[346] edges: 8 blocks: 3 orient: + U[1299] edges: 9 blocks: 4 orient: + U[1507] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: + U[1920] edges: 9 blocks: 2 orient: +	U[787] edges: 9 blocks: 1 orient: + U[308] edges: 8 blocks: 2 orient: + U[1297] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: +
r 03 0.000000000 0.000000000 4 04 0.292893219 0.000000000 16 05 0.000000000 0.000000000 44 06 0.154700538 0.000000000 107 07 0.000000000 0.000000000 224 08 0.099456184 0.000000000 432 09 0.000000000 0.000000000 768 10 0.070831675 0.000000000 1293 11 0.000000000 0.000000000 2068 12 0.053746907 0.000000000 3184 gem: cabedgf gfdcb ea h0 v14 fgebcad	U[49] edges: 6 blocks: 1 orient: + U[218] edges: 8 blocks: 1 orient: + U[346] edges: 8 blocks: 3 orient: + U[1299] edges: 9 blocks: 4 orient: + U[1507] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: + U[1920] edges: 9 blocks: 2 orient: +	U[787] edges: 9 blocks: 1 orient: + U[308] edges: 8 blocks: 2 orient: + U[1297] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: +
6^c 6₂ $(0) 3^2$ 10 blinks r_{17}^{22} #ts(full) 2	U[53] edges: 6 blocks: 1 orient: + U[295] edges: 8 blocks: 1 orient: + U[973] edges: 9 blocks: 1 orient: + U[1689] edges: 9 blocks: 2 orient: + U[898] edges: 9 blocks: 1 orient: + U[2093] edges: 9 blocks: 2 orient: +	U[1297] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: + U[1920] edges: 9 blocks: 2 orient: +
r 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 16 05 0.973248989 0.000000000 44 06 0.866025404 0.000000000 107 07 0.753041503 0.000000000 224 08 1.115221249 0.000000000 432 09 1.033720959 0.000000000 768 10 0.947213596 0.000000000 1293 11 1.252313534 0.000000000 2068 12 1.183012702 0.000000000 3184 gem: dabcgfihkj khfedcbgjia h0 v22 jiegbcdahf	U[53] edges: 6 blocks: 1 orient: + U[295] edges: 8 blocks: 1 orient: + U[973] edges: 9 blocks: 1 orient: + U[1689] edges: 9 blocks: 2 orient: + U[898] edges: 9 blocks: 1 orient: + U[2093] edges: 9 blocks: 2 orient: +	U[1297] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: + U[1920] edges: 9 blocks: 2 orient: +
6^c 6₃ $(0) 6^1$ 23 blinks r_4^{18} #ts(full) 1	U[61] edges: 6 blocks: 4 orient: + U[64] edges: 6 blocks: 3 orient: + U[76] edges: 7 blocks: 1 orient: - U[2320] edges: 9 blocks: 1 orient: - U[2527] edges: 9 blocks: 3 orient: + U[2617] edges: 9 blocks: 4 orient: +	U[1297] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: + U[1920] edges: 9 blocks: 2 orient: +
r 03 0.000000000 0.000000000 2 04 0.382683432 -0.250000000 6 05 0.000000000 0.000000000 10 06 0.366025404 -0.500000000 19 07 0.000000000 0.000000000 28 08 0.333040012 -0.875000000 44 09 0.000000000 0.000000000 60 10 0.259022635 0.800000000 85 11 0.000000000 0.000000000 110 12 0.252157240 0.500000000 146 gem: dabcgfih ihfedcbg h0 v18 higfbdciae	U[61] edges: 6 blocks: 4 orient: + U[64] edges: 6 blocks: 3 orient: + U[76] edges: 7 blocks: 1 orient: - U[2320] edges: 9 blocks: 1 orient: - U[2527] edges: 9 blocks: 3 orient: + U[2617] edges: 9 blocks: 4 orient: +	U[1297] edges: 9 blocks: 4 orient: + U[1508] edges: 9 blocks: 4 orient: + U[1920] edges: 9 blocks: 2 orient: +
8^c 8₁ $(0) 2^1 4^1$ 4 blinks r_3^{22} #ts(full) 5	U[216] edges: 8 blocks: 1 orient: + U[344] edges: 8 blocks: 3 orient: + U[410] edges: 8 blocks: 5 orient: -	U[3179] edges: 9 blocks: 3 orient: + U[3190] edges: 9 blocks: 2 orient: +
r 03 0.000000000 0.000000000 4 04 0.541196100 0.625000000 46 05 0.000000000 0.000000000 184 06 0.422649731 -0.333333333 789 07 0.000000000 0.000000000 2360 08 0.360479911 0.562500000 6876 09 0.000000000 0.000000000 16496 10 0.320169585 -0.400000000 38465 11 0.000000000 0.000000000 79336 12 0.291166101 0.541666667 159786 gem: dabcgfihkj ihjedkbgacf h0 v22 hiejkbdaefgc	U[216] edges: 8 blocks: 1 orient: + U[344] edges: 8 blocks: 3 orient: + U[410] edges: 8 blocks: 5 orient: -	U[3179] edges: 9 blocks: 3 orient: + U[3190] edges: 9 blocks: 2 orient: +

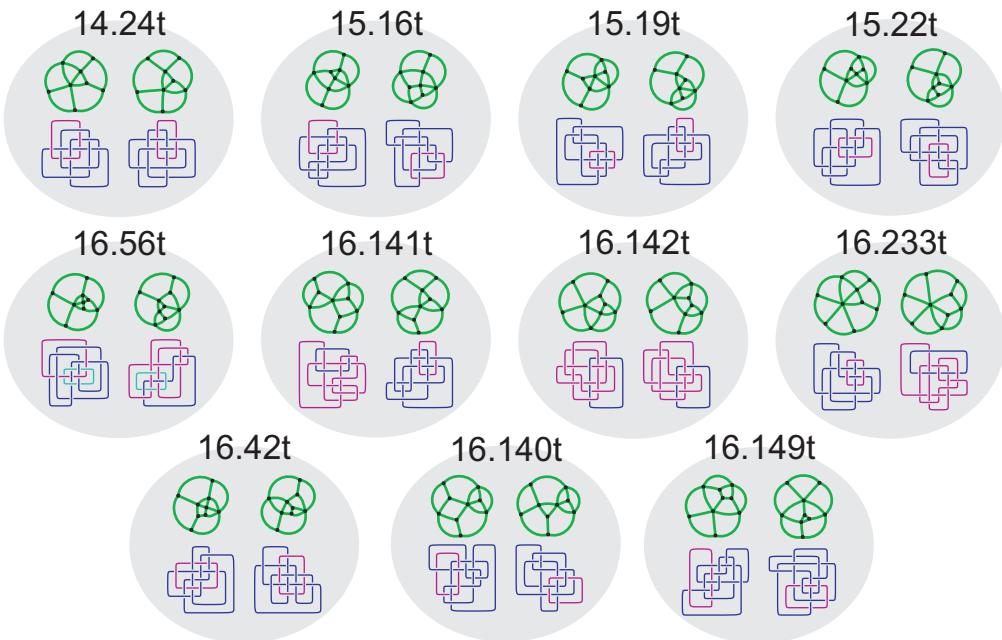
<p>U[727] edges: 8 blocks: 3 orient: -</p> <p>8^c₂ (0) 10^1 2 blinks</p> <p>r_5^{22} #ts(full) 3</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr><td>03</td><td>0.000000000</td><td>0.000000000</td><td>4</td></tr> <tr><td>04</td><td>0.382683432</td><td>1.000000000</td><td>42</td></tr> <tr><td>05</td><td>0.000000000</td><td>0.000000000</td><td>148</td></tr> <tr><td>06</td><td>0.211324865</td><td>1.000000000</td><td>597</td></tr> <tr><td>07</td><td>0.000000000</td><td>0.000000000</td><td>1664</td></tr> <tr><td>08</td><td>0.333040012</td><td>0.000000000</td><td>4616</td></tr> <tr><td>09</td><td>0.000000000</td><td>0.000000000</td><td>10720</td></tr> <tr><td>10</td><td>0.000000000</td><td>0.000000000</td><td>24125</td></tr> <tr><td>11</td><td>0.000000000</td><td>0.000000000</td><td>48980</td></tr> <tr><td>12</td><td>0.281244857</td><td>1.000000000</td><td>96186</td></tr> </tbody> </table> <p>gem: dabcgefihkj h0 v22 hgmljdbkeiafc</p>	r	mod	theta/pi	#sts	03	0.000000000	0.000000000	4	04	0.382683432	1.000000000	42	05	0.000000000	0.000000000	148	06	0.211324865	1.000000000	597	07	0.000000000	0.000000000	1664	08	0.333040012	0.000000000	4616	09	0.000000000	0.000000000	10720	10	0.000000000	0.000000000	24125	11	0.000000000	0.000000000	48980	12	0.281244857	1.000000000	96186	<p>U[229] edges: 8 blocks: 2 orient: +</p> <p>U[528] edges: 8 blocks: 1 orient: +</p>	
r	mod	theta/pi	#sts																																											
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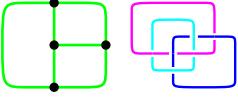
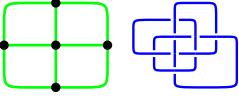
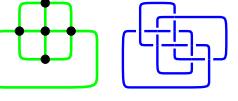
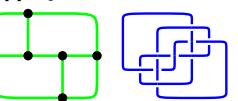
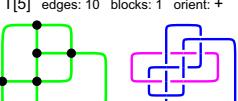
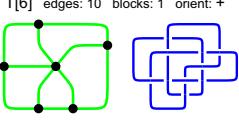
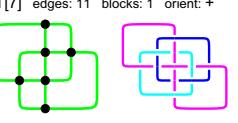
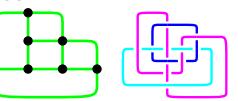
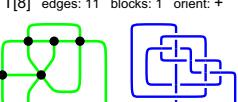
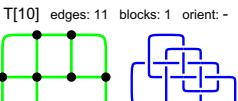
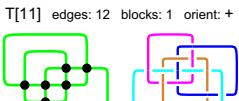
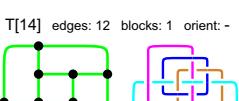
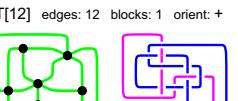
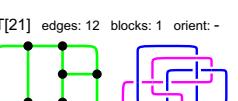
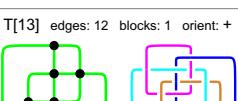
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05	2.689994048	0.600000000	344																																																																																							
06	3.464101615	0.333333333	1483																																																																																							
07	0.000000000	0.000000000	5264																																																																																							
08	5.226251859	0.750000000	16196																																																																																							
09	6.202325755	0.444444444	44304																																																																																							
10	0.000000000	0.000000000	109933																																																																																							
11	8.324234537	0.818181818	251944																																																																																							
12	9.464101615	0.500000000	539078																																																																																							
	mod	theta/pi	#sts																																																																																							
03	1.414213562	0.250000000	8																																																																																							
04	1.414213562	0.875000000	58																																																																																							
05	3.039089992	-0.504068341	280																																																																																							
06	4.000000000	0.000000000	1069																																																																																							
07	3.754708335	0.655400322	3408																																																																																							
08	5.843127213	-0.664916382	9416																																																																																							
09	7.070105072	-0.105463741	23344																																																																																							
10	6.278248790	0.563081267	52805																																																																																							
11	8.745374944	-0.733235861	111096																																																																																							
12	10.222398085	-0.147814474	219466																																																																																							
<p>U[2981] edges: 9 blocks: 2 orient: +</p>																																																																																										

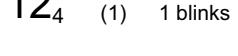
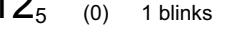
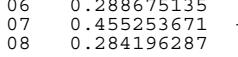
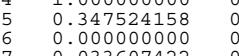
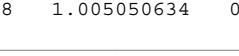
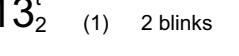
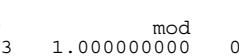
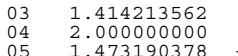
APPENDIX C

Simple 3-connected monochromatic blinks up to 16 edges

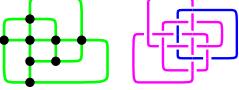
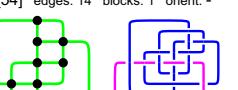
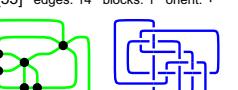
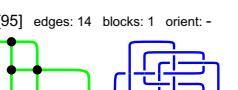
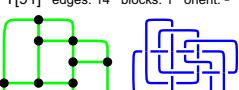
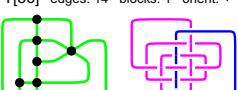
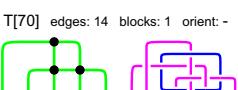
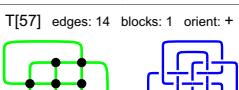
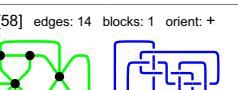
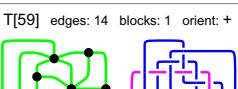
We here present all simple 3-connected green blinks with ≤ 16 edges divided in 381 HGnQI classes. The quantum invariant was calculated up to level $r = 8$ for each of these blinks. There are left 11 uncertainties: 14.24t, 15.16t, 15.19t, 15.22t, 16.42t, 16.56t, 16.141t, 16.142t, 16.149t, 16.233t. Except for these classes the other 370 consisted of only one blink (or the two orientations of the same space). This fact suggests that if A and B are two different simple 3-connected monochromatic blinks, that do not form a trivial pair (trivially induce the same space), then they probably induce different spaces. Are the 11 uncertainties examples of non-trivial pairs?

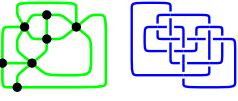
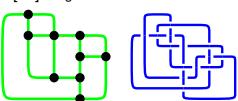
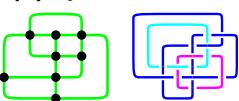
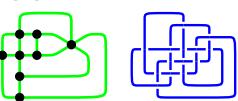
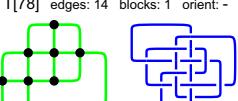
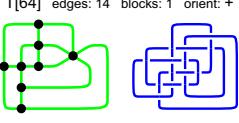
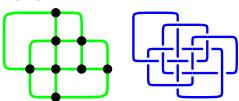
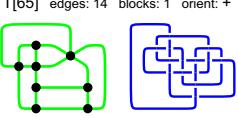
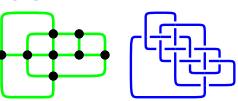
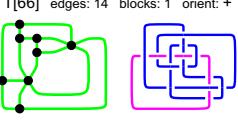
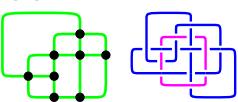
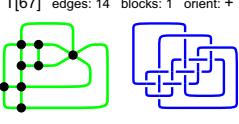
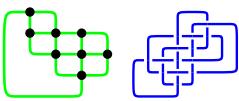
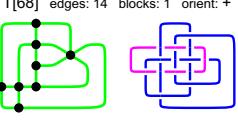
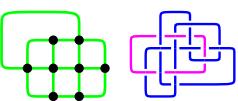
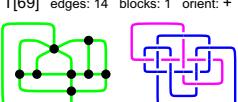
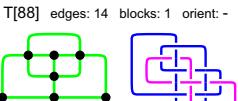


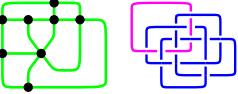
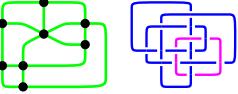
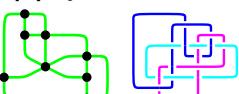
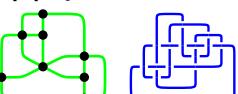
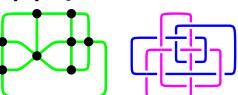
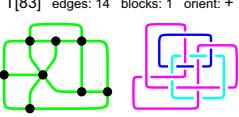
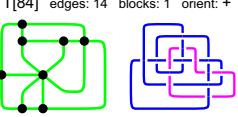
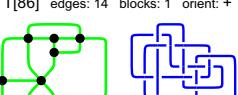
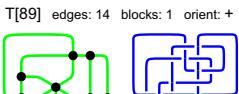
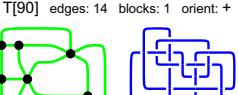
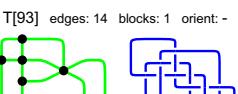
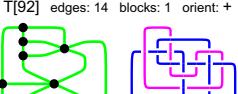
6^t 6₁ (3) 1 blinks	T[1] edges: 6 blocks: 1 orient: + 	8^t 8₁ (1) 1 blinks
T[2] edges: 8 blocks: 1 orient: + 	9^t 9₁ (0) 3 ¹ 2 blinks r mod theta/pi #sts 03 0.707106781 -0.500000000 2 04 0.500000000 0.250000000 34 05 0.739059264 0.395538531 80 06 0.500000000 0.500000000 351 07 1.759536836 0.282056233 908 08 0.396281669 -0.625000000 2482	T[3] edges: 9 blocks: 1 orient: +  T[4] edges: 9 blocks: 1 orient: - 
10^t 10₁ (0) 1 blinks	T[5] edges: 10 blocks: 1 orient: + 	10^t 10₂ (1) 1 blinks r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 34 05 1.909830056 0.000000000 68 06 1.000000000 0.000000000 313 07 1.326975813 0.000000000 620 08 1.544155877 0.000000000 1710
T[6] edges: 10 blocks: 1 orient: + 	11^t 11₁ (0) 2 blinks r mod theta/pi #sts 03 0.707106781 0.000000000 8 04 0.500000000 0.000000000 104 05 1.301508621 0.007797643 696 06 0.288675135 0.000000000 3935 07 0.514770346 0.138673801 17616 08 0.349854384 0.000000000 67720	T[7] edges: 11 blocks: 1 orient: +  T[9] edges: 11 blocks: 1 orient: - 
11^t 11₂ (0) 2 blinks	T[8] edges: 11 blocks: 1 orient: +  T[10] edges: 11 blocks: 1 orient: - 	12^t 12₁ (0) 3 ¹ 2 blinks r mod theta/pi #sts 03 0.707106781 0.500000000 16 04 0.500000000 0.750000000 288 05 1.467514724 -0.615405671 3392 06 0.500000000 -0.500000000 29625 07 1.128408102 0.271038230 201936 08 2.943749502 0.125000000 1119088
T[11] edges: 12 blocks: 1 orient: +  T[14] edges: 12 blocks: 1 orient: - 	12^t 12₂ (0) 2 blinks r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 142 05 0.939358929 0.881610993 708 06 0.288675135 0.000000000 4933 07 1.293840461 0.900343653 23632 08 1.049563152 1.000000000 100280	T[12] edges: 12 blocks: 1 orient: +  T[21] edges: 12 blocks: 1 orient: - 
12^t 12₃ (2) 1 blinks	T[13] edges: 12 blocks: 1 orient: + 	
r mod theta/pi #sts 03 1.414213562 0.000000000 16 04 2.000000000 0.000000000 216 05 3.325015502 0.000000000 2160 06 3.464101615 0.000000000 16355 07 4.387097719 0.000000000 98016 08 5.597670143 0.000000000 483424		

12^t₄ (1) 1 blinks	T[15] edges: 12 blocks: 1 orient: +	12^t₅ (0) 1 blinks
 T[16] edges: 12 blocks: 1 orient: + 	 T[15] edges: 12 blocks: 1 orient: + 	 T[17] edges: 12 blocks: 1 orient: + 
12^t₆ (1) 1 blinks	T[18] edges: 12 blocks: 1 orient: +	12^t₈ (1) 1 blinks
 T[16] edges: 12 blocks: 1 orient: + 	 T[18] edges: 12 blocks: 1 orient: + 	 T[20] edges: 12 blocks: 1 orient: - 
12^t₇ (0) 2 blinks	T[20] edges: 12 blocks: 1 orient: -	12^t₉ (3) 1 blinks
 T[19] edges: 12 blocks: 1 orient: + 	 T[20] edges: 12 blocks: 1 orient: - 	 T[22] edges: 12 blocks: 1 orient: + 
13^t₁ (0) 2 blinks	T[23] edges: 13 blocks: 1 orient: +	13^t₂ (1) 2 blinks
 T[24] edges: 13 blocks: 1 orient: + 	 T[23] edges: 13 blocks: 1 orient: + 	 T[26] edges: 13 blocks: 1 orient: - 
13^t₃ (0) 3 ¹ 2 blinks	T[25] edges: 13 blocks: 1 orient: +	13^t₄ (2) 2 blinks
 T[35] edges: 13 blocks: 1 orient: - 	 T[25] edges: 13 blocks: 1 orient: + 	 T[27] edges: 13 blocks: 1 orient: + 
13^t₄ (2) 2 blinks	T[27] edges: 13 blocks: 1 orient: +	T[43] edges: 13 blocks: 1 orient: -
 T[43] edges: 13 blocks: 1 orient: - 	 T[27] edges: 13 blocks: 1 orient: + 	 T[43] edges: 13 blocks: 1 orient: - 

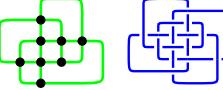
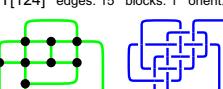
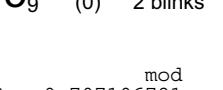
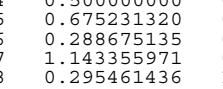
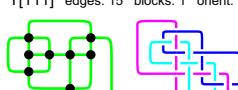
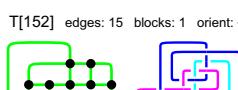
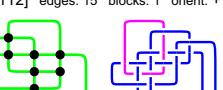
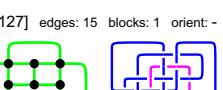
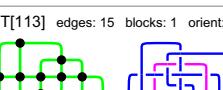
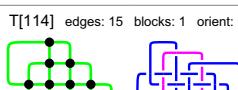
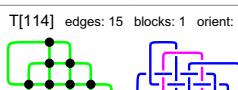
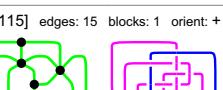
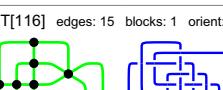
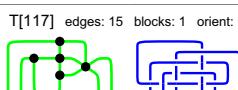
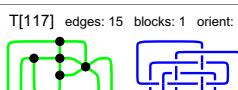
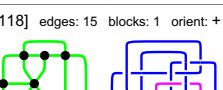
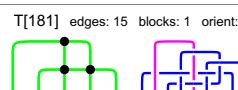
13^t₅ (0) 2 blinks	T[28] edges: 13 blocks: 1 orient: + T[38] edges: 13 blocks: 1 orient: - 	13^t₆ (0) 2 blinks	T[29] edges: 13 blocks: 1 orient: + T[39] edges: 13 blocks: 1 orient: -
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 150 05 1.163430902 -0.25460513 720 06 0.288675135 0.000000000 5789 07 0.265886467 -0.391062613 25768 08 0.333923058 1.000000000 117096	r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 130 05 0.515888138 -0.704882690 338 06 0.288675135 0.000000000 2855 07 1.236532253 -0.848421556 9788 08 0.431443806 1.000000000 39560		
T[29] edges: 13 blocks: 1 orient: + T[39] edges: 13 blocks: 1 orient: - 	13^t₇ (0) 2 blinks	T[30] edges: 13 blocks: 1 orient: + T[40] edges: 13 blocks: 1 orient: - 	
r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 130 05 0.822757750 -0.665031785 354 06 0.288675135 0.000000000 3015 07 0.362894690 -0.918895409 10472 08 0.114418471 1.000000000 43544			
13^t₈ (0) 2 blinks	T[31] edges: 13 blocks: 1 orient: + T[41] edges: 13 blocks: 1 orient: - 	13^t₉ (1) 2 blinks	T[34] edges: 13 blocks: 1 orient: + T[37] edges: 13 blocks: 1 orient: -
r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 130 05 0.835593533 -0.945422087 330 06 0.288675135 0.000000000 2813 07 0.693817645 -0.832870408 9438 08 0.268264961 0.000000000 38250	r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 142 05 0.957100463 0.335791136 696 06 0.000000000 0.000000000 4945 07 0.349665016 -0.167975067 23388 08 0.313708499 1.000000000 100252		
T[32] edges: 13 blocks: 1 orient: + T[42] edges: 13 blocks: 1 orient: - 	13^t₁₀ (0) 3 ¹ 2 blinks	T[34] edges: 13 blocks: 1 orient: + T[37] edges: 13 blocks: 1 orient: - 	
r mod theta/pi #sts 03 0.707106781 -0.500000000 2 04 0.500000000 -0.750000000 130 05 0.611740042 -0.864328736 284 06 0.500000000 0.500000000 2547 07 0.334843358 -0.935290994 6452 08 0.292161950 0.875000000 26518			
13^t₁₁ (1) 2 blinks	T[36] edges: 13 blocks: 1 orient: + T[44] edges: 13 blocks: 1 orient: - 	14^t₁ (0) 2 blinks	T[46] edges: 14 blocks: 1 orient: + T[99] edges: 14 blocks: 1 orient: -
r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 142 05 1.069569378 0.451264694 612 06 1.000000000 0.333333333 4347 07 1.414565623 0.427608969 16544 08 1.928932188 0.000000000 67680	r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 294 05 0.529391988 0.940418569 1296 06 0.288675135 0.000000000 13919 07 0.528131657 0.944351349 63000 08 0.221271574 1.000000000 327948		
T[45] edges: 14 blocks: 1 orient: + T[72] edges: 14 blocks: 1 orient: - 	14^t₂ (1) 2 blinks	T[46] edges: 14 blocks: 1 orient: + T[99] edges: 14 blocks: 1 orient: - 	
r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 324 05 1.722981070 0.461441406 2888 06 1.000000000 0.333333333 26689 07 1.1554211335 -0.152462087 170816 08 1.443650814 1.000000000 942592			
14^t₃ (0) 2 blinks	T[47] edges: 14 blocks: 1 orient: + T[49] edges: 14 blocks: 1 orient: - 		
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 1.000000000 140 05 1.162192925 -0.843795532 836 06 0.288675135 0.000000000 5783 07 0.283888148 -0.360662342 35852 08 0.623751920 0.500000000 167588			

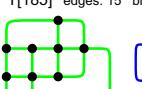
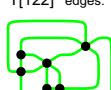
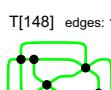
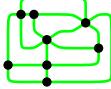
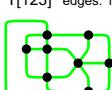
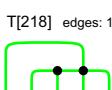
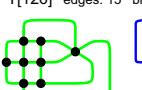
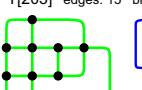
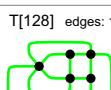
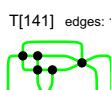
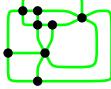
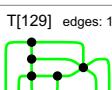
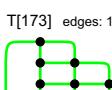
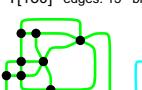
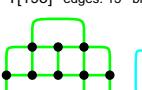
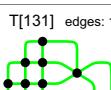
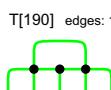
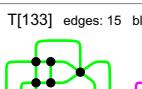
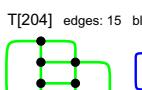
14₄^t (2) 1 blinks	T[48] edges: 14 blocks: 1 orient: + 	14₅^t (0) 1 blinks
r 03 1.414213562 mod 0.000000000 #sts 16 04 2.000000000 0.000000000 320 05 2.932550660 0.000000000 4384 06 3.464101615 0.000000000 44507 07 7.968597806 0.000000000 348656 08 8.505291112 0.000000000 2187968	r 03 0.707106781 mod 0.000000000 4 04 0.500000000 0.000000000 166 05 0.539350531 0.000000000 896 06 0.288675135 0.000000000 7875 07 2.081327461 0.000000000 42336 08 3.380259781 0.000000000 206744	
T[50] edges: 14 blocks: 1 orient: + 	14₆^t (0) 2 blinks	T[51] edges: 14 blocks: 1 orient: +  T[54] edges: 14 blocks: 1 orient: - 
r 03 0.707106781 mod 0.000000000 4 04 0.500000000 0.000000000 166 05 0.539350531 0.000000000 964 06 0.288675135 0.000000000 8067 07 0.609752835 0.203153157 47008 08 0.318792322 0.000000000 229168		
14₇^t (0) 2 blinks	T[52] edges: 14 blocks: 1 orient: + 	14₈^t (0) 6 ¹ 2 blinks
r 03 0.707106781 mod 0.000000000 4 04 0.500000000 0.000000000 278 05 1.249947405 0.810036667 1300 06 0.288675135 0.000000000 13443 07 0.298691512 0.489055421 62360 08 0.521564994 0.000000000 328316	T[82] edges: 14 blocks: 1 orient: - 	r 03 0.000000000 mod 0.000000000 2 04 0.382683432 -0.250000000 258 05 0.000000000 0.000000000 630 06 0.707106781 0.750000000 7761 07 0.000000000 0.000000000 25848 08 0.366320633 0.919436199 128224
T[53] edges: 14 blocks: 1 orient: + 	14₉^t (0) 2 ¹ 2 blinks	T[55] edges: 14 blocks: 1 orient: +  T[95] edges: 14 blocks: 1 orient: - 
T[91] edges: 14 blocks: 1 orient: - 	r 03 0.000000000 mod 0.000000000 2 04 0.382683432 1.000000000 258 05 0.000000000 0.000000000 644 06 0.788675135 1.000000000 7975 07 0.000000000 0.000000000 26432 08 0.537750816 0.399620453 132158	
14₁₀^t (0) 2 blinks	T[56] edges: 14 blocks: 1 orient: + 	14₁₁^t (1) 1 blinks
r 03 0.707106781 mod 0.000000000 4 04 0.500000000 0.000000000 150 05 1.122038164 0.248866077 860 06 0.288675135 0.000000000 6927 07 0.917745700 -0.226832506 39420 08 0.712740903 0.000000000 189208	T[70] edges: 14 blocks: 1 orient: - 	r 03 1.000000000 mod 0.000000000 2 04 1.000000000 0.000000000 130 05 0.278640450 0.000000000 434 06 0.000000000 0.000000000 3497 07 1.165806718 0.000000000 16784 08 0.661038332 1.000000000 71248
T[57] edges: 14 blocks: 1 orient: + 	14₁₂^t (0) 2 ¹ 2 blinks	T[58] edges: 14 blocks: 1 orient: +  T[100] edges: 14 blocks: 1 orient: - 
r 03 0.000000000 mod 0.000000000 2 04 0.382683432 1.000000000 258 05 0.000000000 0.000000000 668 06 0.211324865 0.000000000 8287 07 0.000000000 0.000000000 27596 08 0.999399697 0.492866731 139918		
14₁₃^t (2) 2 blinks	T[59] edges: 14 blocks: 1 orient: + 	T[101] edges: 14 blocks: 1 orient: - 
r 03 1.414213562 mod 0.000000000 4 04 2.000000000 0.000000000 278 05 0.562708652 -0.569146579 1324 06 1.732050808 0.000000000 12843 07 2.016369919 0.035633663 62952 08 4.157057602 0.000000000 315672		

14₁₄^t (0) 2 ¹ 2 blinks	T[60] edges: 14 blocks: 1 orient: +  T[96] edges: 14 blocks: 1 orient: - 	14₁₅^t (1) 1 blinks
T[61] edges: 14 blocks: 1 orient: + 	14₁₆^t (1) 1 blinks	T[62] edges: 14 blocks: 1 orient: + 
r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 258 05 0.000000000 0.000000000 650 06 0.788675135 1.000000000 8045 07 0.000000000 0.000000000 26876 08 0.218421595 0.100236673 135780	r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 228 05 1.201626124 0.000000000 2000 06 1.000000000 0.000000000 18501 07 1.108132949 0.000000000 120784 08 0.833477759 0.000000000 670328	
14₁₇^t (0) 4 ¹ 2 blinks	T[63] edges: 14 blocks: 1 orient: +  T[78] edges: 14 blocks: 1 orient: - 	14₁₈^t (0) 4 ¹ 2 blinks
r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 130 05 0.300779402 0.116145903 434 06 0.577350269 0.333333333 3497 07 0.225065982 0.230708887 16784 08 0.306133161 0.378573476 71248	r mod theta/pi #sts 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 130 05 0.225834887 -0.398735306 406 06 0.577350269 -0.333333333 3271 07 1.204515697 0.085723784 15284 08 0.419281159 0.995048141 63942	
T[64] edges: 14 blocks: 1 orient: +  T[76] edges: 14 blocks: 1 orient: - 	14₁₉^t (1) 2 blinks	T[65] edges: 14 blocks: 1 orient: +  T[81] edges: 14 blocks: 1 orient: - 
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 1.048646687 0.361585810 428 06 1.000000000 0.333333333 3451 07 1.882830404 0.187297094 16316 08 0.221212662 0.000000000 68634		
14₂₀^t (1) 2 ¹ 2 blinks	T[66] edges: 14 blocks: 1 orient: +  T[74] edges: 14 blocks: 1 orient: - 	14₂₁^t (1) 2 blinks
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.765366865 1.000000000 150 05 0.000000000 0.000000000 896 06 0.000000000 0.000000000 7199 07 0.000000000 0.000000000 41228 08 1.551390041 0.491818405 199112	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 0.516569593 0.751736923 442 06 0.000000000 0.000000000 3601 07 0.546378793 -0.317967594 17192 08 1.079077039 0.000000000 74368	
T[67] edges: 14 blocks: 1 orient: +  T[80] edges: 14 blocks: 1 orient: - 	14₂₂^t (1) 2 ¹ 2 blinks	T[68] edges: 14 blocks: 1 orient: +  T[85] edges: 14 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.765366865 1.000000000 150 05 0.000000000 0.000000000 864 06 1.000000000 1.000000000 6967 07 0.000000000 0.000000000 39592 08 1.475641911 0.494636265 190480		
14₂₃^t (0) 2 blinks	T[69] edges: 14 blocks: 1 orient: +  T[88] edges: 14 blocks: 1 orient: - 	
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 150 05 0.444548571 -0.301750907 892 06 0.288675135 0.000000000 6987 07 0.902719679 -0.674594844 40320 08 0.388316007 0.000000000 192608		

14_{24}^t (0) 2 blinks	T[71] edges: 14 blocks: 1 orient: + 	14_{25}^t (1) 1 blinks
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 166 05 0.221839804 0.000000000 732 06 0.288675135 0.000000000 6153 07 0.569807123 0.000000000 26280 08 0.658347954 0.000000000 118404	T[79] edges: 14 blocks: 1 orient: + 	r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 188 05 0.180339888 1.000000000 1560 06 1.000000000 0.000000000 12071 07 1.344739004 0.000000000 69104 08 2.372583002 0.000000000 338240
T[73] edges: 14 blocks: 1 orient: + 	14_{26}^t (1) 1 blinks	T[75] edges: 14 blocks: 1 orient: + 
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 0.368810394 0.000000000 344 06 1.000000000 0.000000000 2917 07 1.010234949 0.000000000 9956 08 1.363348286 0.000000000 40334		
14_{27}^t (0) 2^1 2 blinks	T[77] edges: 14 blocks: 1 orient: + 	14_{28}^t (1) 1 blinks
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 138 05 0.000000000 0.000000000 720 06 0.211324865 0.000000000 4973 07 0.000000000 0.000000000 24332 08 0.389854874 0.668408833 105252	T[87] edges: 14 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 200 05 0.819660113 0.000000000 1624 06 2.000000000 0.000000000 13063 07 2.507030458 0.000000000 74032 08 3.117749006 0.000000000 367256
T[83] edges: 14 blocks: 1 orient: + 	14_{29}^t (1) 2^1 2 blinks	T[84] edges: 14 blocks: 1 orient: + 
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.765366865 1.000000000 142 05 0.000000000 0.000000000 720 06 0.517638090 -0.583333333 5105 07 0.000000000 0.000000000 24552 08 2.248193302 0.499484447 105560	T[87] edges: 14 blocks: 1 orient: - 	
14_{30}^t (1) 1 blinks	T[86] edges: 14 blocks: 1 orient: + 	14_{31}^t (1) 1 blinks
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 0.631189606 1.000000000 354 06 0.000000000 0.000000000 3015 07 1.043679128 1.000000000 10472 08 1.020202536 0.000000000 43544		r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 0.604878371 0.000000000 344 06 1.000000000 0.000000000 2917 07 2.105161001 0.000000000 9956 08 1.446609407 0.000000000 40334
T[89] edges: 14 blocks: 1 orient: + 	14_{32}^t (0) 4^1 2 blinks	T[90] edges: 14 blocks: 1 orient: + 
r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 130 05 0.188343559 0.943128893 344 06 0.577350269 -0.333333333 2917 07 2.228800890 -0.037060545 9956 08 1.234263645 0.588840745 40334	T[93] edges: 14 blocks: 1 orient: - 	
14_{33}^t (0) 1 blinks	T[92] edges: 14 blocks: 1 orient: + 	
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 142 05 0.095670923 1.000000000 728 06 0.288675135 0.000000000 5137 07 1.678840085 0.000000000 25068 08 1.631954258 0.000000000 107632		

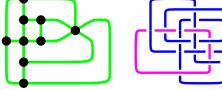
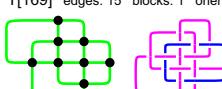
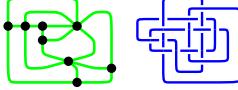
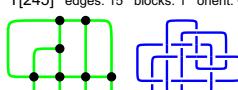
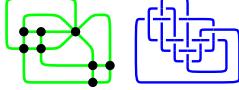
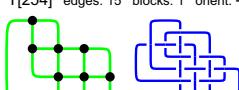
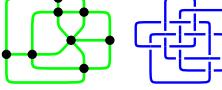
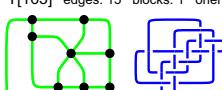
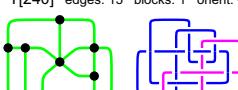
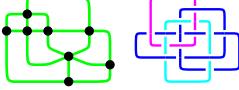
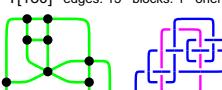
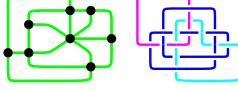
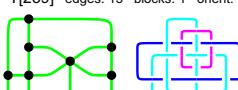
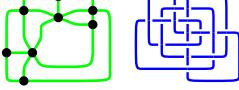
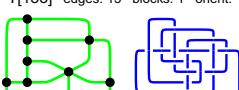
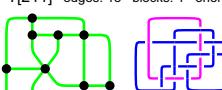
14^t₃₄ (1) 1 blinks	T[94] edges: 14 blocks: 1 orient: +	14^t₃₅ (1) 1 blinks
<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 0.249223595 1.000000000 338 06 0.000000000 0.000000000 2855 07 0.938313253 0.000000000 9788 08 0.534921161 0.000000000 39560</pre>		<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 0.159053651 1.000000000 296 06 1.000000000 0.000000000 2655 07 1.289467145 0.000000000 6812 08 2.245599280 0.000000000 28522</pre>
T[97] edges: 14 blocks: 1 orient: +	14^t₃₆ (1) 1 blinks	T[102] edges: 14 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 130 05 0.686917696 1.000000000 260 06 1.000000000 0.000000000 2449 07 2.622613419 0.000000000 4892 08 3.814141775 0.000000000 21534</pre>	
15^t₁ (0) 5 ¹ 2 blinks	T[103] edges: 15 blocks: 1 orient: +	15^t₂ (0) 3 ² 2 blinks
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 -0.500000000 514 05 1.475107136 0.834849378 1326 06 0.288675135 1.000000000 23075 07 1.768822064 0.388634478 96144 08 2.277836180 0.250000000 579174</pre>		<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 582 05 1.828329382 0.131560680 2948 06 0.866025404 0.000000000 43355 07 1.113572873 0.272133300 260448 08 3.573700098 0.000000000 1654236</pre>
T[104] edges: 15 blocks: 1 orient: +	15^t₃ (0) 3 ¹ 2 blinks	T[105] edges: 15 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 0.707106781 0.500000000 2 04 0.500000000 -0.250000000 514 05 1.102656739 0.812233305 1436 06 0.500000000 -0.500000000 24949 07 1.617057587 0.701693015 106676 08 0.516332715 -0.375000000 657408</pre>	
T[189] edges: 15 blocks: 1 orient: -	T[244] edges: 15 blocks: 1 orient: -	
15^t₄ (0) 2 blinks	T[106] edges: 15 blocks: 1 orient: +	15^t₅ (1) 3 ¹ 2 blinks
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 514 05 1.137841936 0.876797452 1454 06 0.288675135 0.000000000 25247 07 0.969594882 0.646094284 107972 08 0.551494852 0.000000000 667434</pre>		<pre>r mod theta/pi #sts 03 1.000000000 -0.500000000 4 04 1.000000000 -0.750000000 550 05 1.105190520 -0.622924619 3024 06 1.000000000 0.333333333 39627 07 1.175410380 0.238609927 255072 08 0.597979746 0.875000000 1568448</pre>
T[107] edges: 15 blocks: 1 orient: +	15^t₆ (0) 3 ¹ 2 blinks	T[108] edges: 15 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 0.707106781 -0.500000000 2 04 0.500000000 -0.750000000 258 05 1.522477495 0.758980225 748 06 0.500000000 0.500000000 8863 07 0.917824638 -0.135773030 38852 08 0.849289376 0.875000000 196408</pre>	
T[257] edges: 15 blocks: 1 orient: -	T[236] edges: 15 blocks: 1 orient: -	
15^t₇ (0) 2 blinks	T[109] edges: 15 blocks: 1 orient: +	
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 294 05 0.626523527 -0.169924730 1520 06 0.288675135 0.000000000 17041 07 1.026529222 -0.601939297 95880 08 0.641616039 1.000000000 538344</pre>		
T[164] edges: 15 blocks: 1 orient: -		

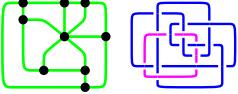
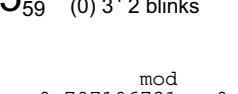
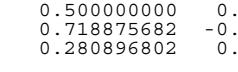
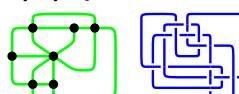
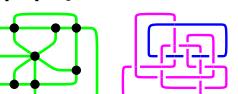
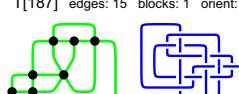
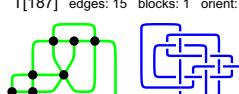
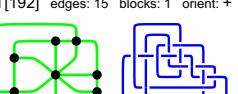
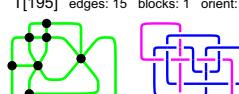
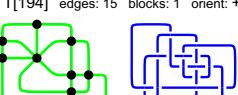
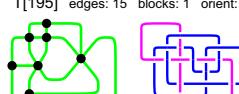
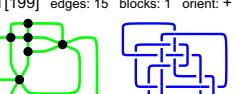
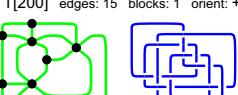
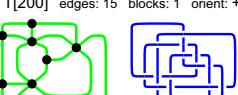
15^t₈ (0) 2 blinks	T[110] edges: 15 blocks: 1 orient: +  T[124] edges: 15 blocks: 1 orient: - 	15^t₉ (0) 2 blinks	T[111] edges: 15 blocks: 1 orient: +  T[152] edges: 15 blocks: 1 orient: - 
T[111] edges: 15 blocks: 1 orient: +  T[152] edges: 15 blocks: 1 orient: - 	15^t₁₀ (0) 2 blinks	T[112] edges: 15 blocks: 1 orient: +  T[127] edges: 15 blocks: 1 orient: - 	
15^t₁₁ (0) 2 blinks	T[113] edges: 15 blocks: 1 orient: +  T[125] edges: 15 blocks: 1 orient: - 	15^t₁₂ (1) 2 blinks	T[114] edges: 15 blocks: 1 orient: +  T[136] edges: 15 blocks: 1 orient: - 
T[114] edges: 15 blocks: 1 orient: +  T[136] edges: 15 blocks: 1 orient: - 	15^t₁₃ (0) 3 ² 2 blinks	T[115] edges: 15 blocks: 1 orient: +  T[168] edges: 15 blocks: 1 orient: - 	
15^t₁₄ (0) 3 ¹ 2 blinks	T[116] edges: 15 blocks: 1 orient: +  T[162] edges: 15 blocks: 1 orient: - 	15^t₁₅ (0) 2 blinks	T[117] edges: 15 blocks: 1 orient: +  T[175] edges: 15 blocks: 1 orient: - 
T[117] edges: 15 blocks: 1 orient: +  T[175] edges: 15 blocks: 1 orient: - 	15^t₁₆ (0) 4 blinks	T[118] edges: 15 blocks: 1 orient: +  T[119] edges: 15 blocks: 1 orient: + 	T[181] edges: 15 blocks: 1 orient: -  T[205] edges: 15 blocks: 1 orient: - 
15^t₁₇ (1) 2 blinks	T[120] edges: 15 blocks: 1 orient: +  T[178] edges: 15 blocks: 1 orient: - 		
T[120] edges: 15 blocks: 1 orient: +  T[178] edges: 15 blocks: 1 orient: - 			

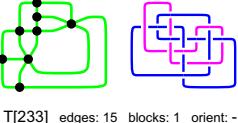
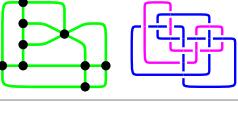
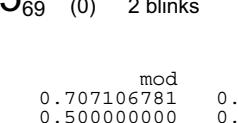
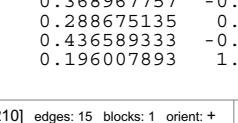
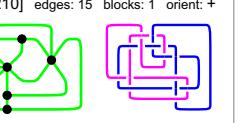
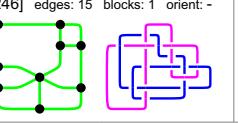
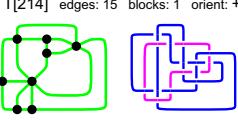
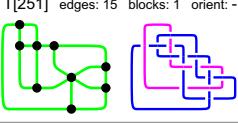
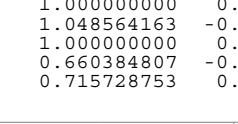
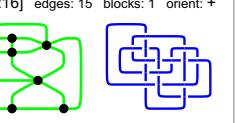
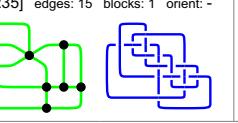
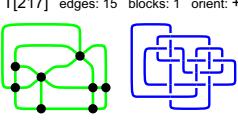
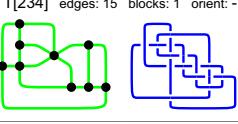
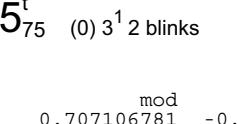
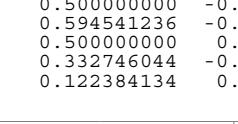
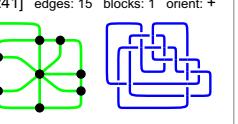
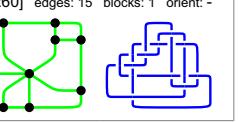
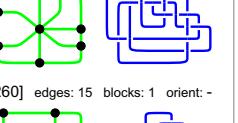
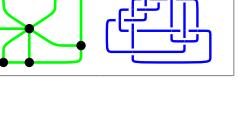
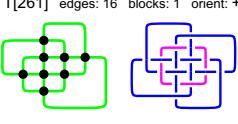
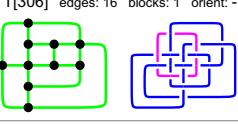
15_{18}^t (0) $3^1 2$ blinks	T[121] edges: 15 blocks: 1 orient: +  T[185] edges: 15 blocks: 1 orient: - 	15_{19}^t (0) 4 blinks
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T[122] edges: 15 blocks: 1 orient: +  T[188] edges: 15 blocks: 1 orient: -  T[148] edges: 15 blocks: 1 orient: +  T[208] edges: 15 blocks: 1 orient: - 		15_{20}^t (1) 2 blinks
r 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 278 05 0.977964394 0.754684074 1500 06 0.000000000 0.000000000 15485 07 0.916402827 -0.189813708 92092 08 2.213203436 1.000000000 509144	T[123] edges: 15 blocks: 1 orient: +  T[218] edges: 15 blocks: 1 orient: - 	
15_{21}^t (0) $3^1 2$ blinks	T[126] edges: 15 blocks: 1 orient: +  T[203] edges: 15 blocks: 1 orient: - 	15_{22}^t (0) 4 blinks
r 03 0.707106781 -0.500000000 2 04 0.500000000 -0.750000000 258 05 0.198805995 0.800924247 790 06 0.500000000 0.500000000 9151 07 0.795109871 -0.496835236 43058 08 0.466605943 0.875000000 217556	r 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 0.943093903 -0.180036791 1680 06 0.288675135 0.000000000 20945 07 0.242490221 -0.482680140 111968 08 0.641616039 1.000000000 656072	
T[128] edges: 15 blocks: 1 orient: +  T[186] edges: 15 blocks: 1 orient: -  T[141] edges: 15 blocks: 1 orient: +  T[206] edges: 15 blocks: 1 orient: - 		15_{23}^t (0) $5^1 2$ blinks
r 03 0.707106781 0.000000000 2 04 0.500000000 -0.500000000 258 05 0.701941669 -0.912986430 770 06 0.288675135 1.000000000 9029 07 1.270404161 -0.762193369 41120 08 0.418811966 -0.750000000 208710	T[129] edges: 15 blocks: 1 orient: +  T[173] edges: 15 blocks: 1 orient: - 	
15_{24}^t (0) 2 blinks	T[130] edges: 15 blocks: 1 orient: +  T[193] edges: 15 blocks: 1 orient: - 	15_{25}^t (1) 2 blinks
r 03 0.707106781 0.000000000 8 04 0.500000000 0.000000000 372 05 0.192397948 -0.934341190 3464 06 0.288675135 0.000000000 37495 07 0.410008025 0.028155760 272792 08 0.650948394 0.000000000 1701400	r 03 1.000000000 0.000000000 16 04 1.000000000 0.000000000 496 05 1.209167465 0.088128758 7520 06 1.000000000 0.000000000 88853 07 1.424972209 0.305849958 787168 08 2.514718626 0.000000000 5556608	
T[131] edges: 15 blocks: 1 orient: +  T[190] edges: 15 blocks: 1 orient: - 		15_{26}^t (1) 2 blinks
r 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 278 05 0.553044205 0.437794976 1576 06 1.000000000 0.000000000 16113 07 1.633848588 0.085568510 97152 08 2.029437252 0.000000000 538140	T[132] edges: 15 blocks: 1 orient: +  T[191] edges: 15 blocks: 1 orient: - 	
15_{27}^t (0) $3^1 2$ blinks	T[133] edges: 15 blocks: 1 orient: +  T[204] edges: 15 blocks: 1 orient: - 	
r 03 0.707106781 0.500000000 4 04 0.500000000 0.750000000 270 05 0.618532982 -0.551840632 1624 06 0.500000000 -0.500000000 14677 07 1.022470177 -0.425869127 98684 08 0.538863011 0.125000000 519340		

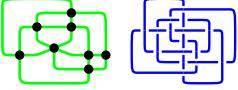
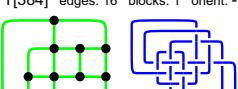
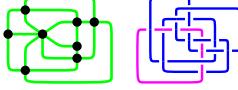
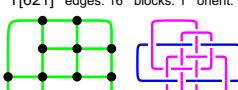
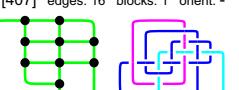
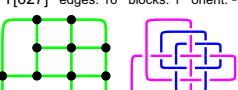
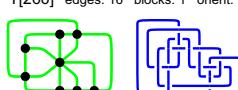
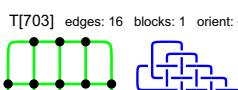
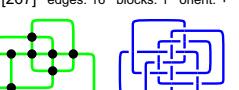
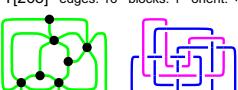
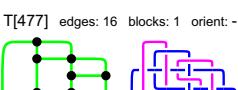
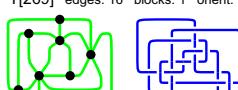
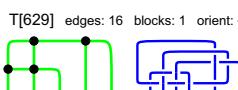
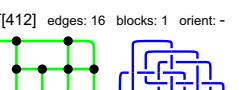
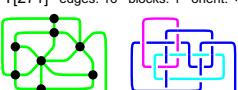
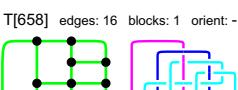
<p>15^t₂₈ (0) 2 blinks</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr> <td>03</td> <td>0.707106781</td> <td>0.000000000</td> <td>4</td> </tr> <tr> <td>04</td> <td>0.500000000</td> <td>0.000000000</td> <td>270</td> </tr> <tr> <td>05</td> <td>0.063149901</td> <td>-0.414494598</td> <td>1524</td> </tr> <tr> <td>06</td> <td>0.288675135</td> <td>0.000000000</td> <td>13925</td> </tr> <tr> <td>07</td> <td>0.351241815</td> <td>0.584532732</td> <td>90932</td> </tr> <tr> <td>08</td> <td>0.028162871</td> <td>0.000000000</td> <td>477788</td> </tr> </tbody> </table> <p>T[134] edges: 15 blocks: 1 orient: + T[196] edges: 15 blocks: 1 orient: -</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	4	04	0.500000000	0.000000000	270	05	0.063149901	-0.414494598	1524	06	0.288675135	0.000000000	13925	07	0.351241815	0.584532732	90932	08	0.028162871	0.000000000	477788	<p>15^t₂₉ (0) 2 blinks</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr> <td>03</td> <td>0.707106781</td> <td>0.000000000</td> <td>2</td> </tr> <tr> <td>04</td> <td>0.500000000</td> <td>0.000000000</td> <td>258</td> </tr> <tr> <td>05</td> <td>0.368398093</td> <td>-0.877856396</td> <td>806</td> </tr> <tr> <td>06</td> <td>0.288675135</td> <td>0.000000000</td> <td>9455</td> </tr> <tr> <td>07</td> <td>0.898411951</td> <td>-0.711082033</td> <td>43442</td> </tr> <tr> <td>08</td> <td>0.317991733</td> <td>0.000000000</td> <td>220512</td> </tr> </tbody> </table> <p>T[135] edges: 15 blocks: 1 orient: + T[137] edges: 15 blocks: 1 orient: +</p>	r	mod	theta/pi	#sts	03	0.707106781	0.000000000	2	04	0.500000000	0.000000000	258	05	0.368398093	-0.877856396	806	06	0.288675135	0.000000000	9455	07	0.898411951	-0.711082033	43442	08	0.317991733	0.000000000	220512
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<p>15^t₃₀ (0) 3¹ 2 blinks</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr> <td>03</td> <td>0.707106781</td> <td>-0.500000000</td> <td>2</td> </tr> <tr> <td>04</td> <td>0.500000000</td> <td>0.250000000</td> <td>258</td> </tr> <tr> <td>05</td> <td>0.484704763</td> <td>-0.972141250</td> <td>762</td> </tr> <tr> <td>06</td> <td>0.500000000</td> <td>0.500000000</td> <td>8925</td> </tr> <tr> <td>07</td> <td>0.897407426</td> <td>-0.520542111</td> <td>40450</td> </tr> <tr> <td>08</td> <td>0.418811966</td> <td>0.375000000</td> <td>202730</td> </tr> </tbody> </table> <p>T[221] edges: 15 blocks: 1 orient: - T[198] edges: 15 blocks: 1 orient: -</p>	r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	2	04	0.500000000	0.250000000	258	05	0.484704763	-0.972141250	762	06	0.500000000	0.500000000	8925	07	0.897407426	-0.520542111	40450	08	0.418811966	0.375000000	202730	<p>15^t₃₁ (0) 3¹ 2 blinks</p> <table border="1"> <thead> <tr> <th>r</th> <th>mod</th> <th>theta/pi</th> <th>#sts</th> </tr> </thead> <tbody> <tr> <td>03</td> <td>0.707106781</td> <td>-0.500000000</td> <td>2</td> </tr> <tr> <td>04</td> <td>0.500000000</td> <td>-0.750000000</td> <td>258</td> </tr> <tr> <td>05</td> <td>0.836602494</td> <td>0.993047513</td> <td>782</td> </tr> <tr> <td>06</td> <td>0.500000000</td> <td>0.500000000</td> <td>9071</td> </tr> <tr> <td>07</td> <td>0.618311526</td> <td>-0.382863897</td> <td>42014</td> </tr> <tr> <td>08</td> <td>0.391615492</td> <td>-0.125000000</td> <td>210136</td> </tr> </tbody> </table> <p>T[135] edges: 15 blocks: 1 orient: + T[138] edges: 15 blocks: 1 orient: +</p>	r	mod	theta/pi	#sts	03	0.707106781	-0.500000000	2	04	0.500000000	-0.750000000	258	05	0.836602494	0.993047513	782	06	0.500000000	0.500000000	9071	07	0.618311526	-0.382863897	42014	08	0.391615492	-0.125000000	210136
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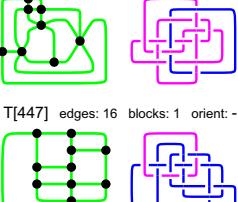
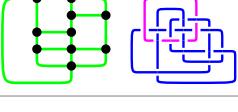
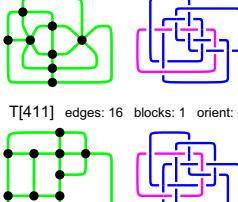
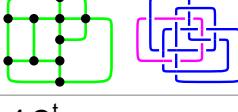
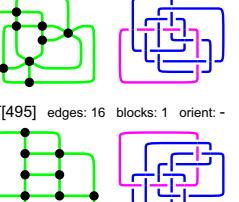
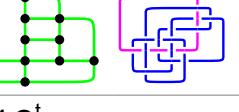
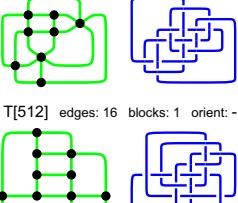
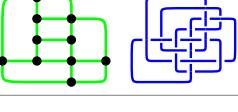
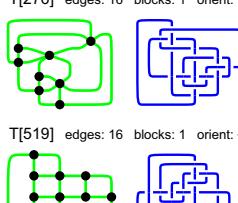
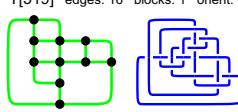
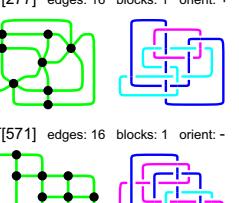
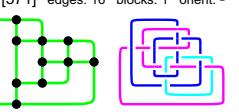
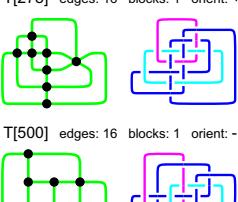
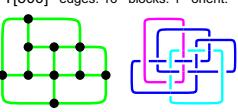
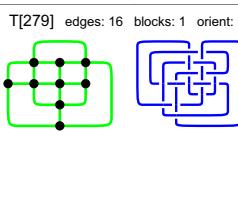
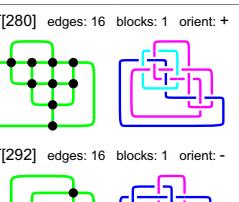
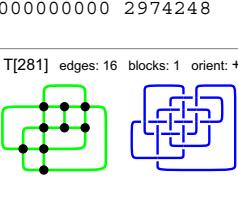
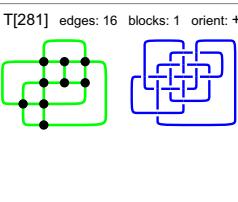
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T[147] edges: 15 blocks: 1 orient: + 	15^t₄₀ (0) 2 blinks	T[149] edges: 15 blocks: 1 orient: +
T[212] edges: 15 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 258 05 0.575440734 -0.513332866 796 06 0.288675135 0.000000000 9309 07 0.334850826 -0.386992833 43052 08 0.635017068 0.000000000 219726	T[225] edges: 15 blocks: 1 orient: -
15^t₄₁ (1) 2 blinks	T[150] edges: 15 blocks: 1 orient: + 	15^t₄₂ (0) 2 blinks
r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 278 05 1.174634666 0.587729985 1536 06 0.000000000 0.000000000 14845 07 0.597020181 0.724206162 93488 08 0.526911935 1.000000000 495932	T[224] edges: 15 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 258 05 0.209207671 -0.698578887 776 06 0.288675135 0.000000000 9025 07 0.849885501 -0.881742642 41168 08 0.028162871 0.000000000 205034
T[151] edges: 15 blocks: 1 orient: + 	15^t₄₃ (1) 3 ¹ 2 blinks	T[153] edges: 15 blocks: 1 orient: +
T[229] edges: 15 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.000000000 0.500000000 4 04 1.000000000 0.750000000 278 05 2.042820471 0.913366438 1588 06 1.000000000 -0.333333333 14789 07 1.596981386 -0.136560662 94916 08 0.715728753 -0.875000000 496072	T[250] edges: 15 blocks: 1 orient: -
15^t₄₄ (0) 2 blinks	T[154] edges: 15 blocks: 1 orient: + 	15^t₄₅ (1) 3 ¹ 2 blinks
r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 258 05 0.614331549 -0.802978943 788 06 0.288675135 0.000000000 9157 07 1.284472900 -0.546447880 42524 08 0.700675165 0.000000000 214934	T[249] edges: 15 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.000000000 0.500000000 4 04 1.000000000 0.750000000 278 05 1.190011694 0.922958507 1648 06 1.000000000 -0.333333333 15705 07 1.928447116 -0.094387705 100324 08 1.544155877 -0.875000000 538060
T[155] edges: 15 blocks: 1 orient: + 	15^t₄₆ (0) 2 blinks	T[156] edges: 15 blocks: 1 orient: +
T[252] edges: 15 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.707106781 0.000000000 2 04 0.500000000 0.000000000 258 05 0.741205753 -0.889000753 752 06 0.288675135 0.000000000 8827 07 0.975858332 -0.704335294 39296 08 0.410846304 0.000000000 195216	T[242] edges: 15 blocks: 1 orient: -
15^t₄₇ (1) 2 blinks	T[157] edges: 15 blocks: 1 orient: + 	T[256] edges: 15 blocks: 1 orient: -
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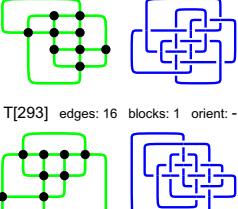
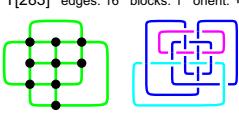
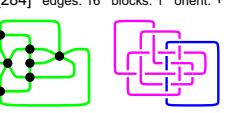
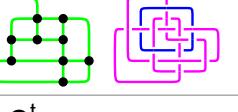
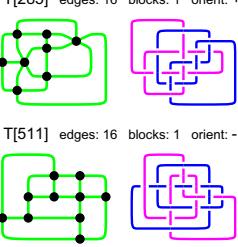
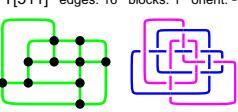
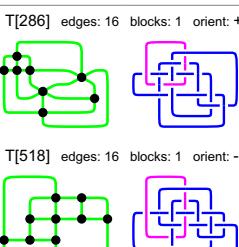
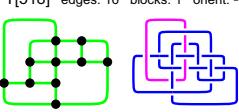
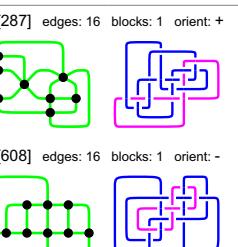
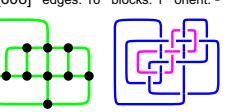
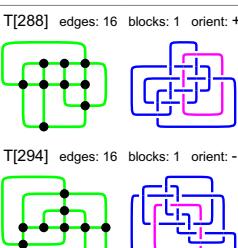
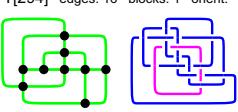
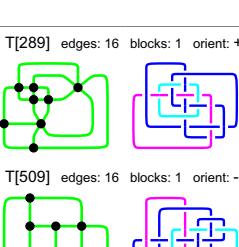
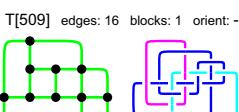
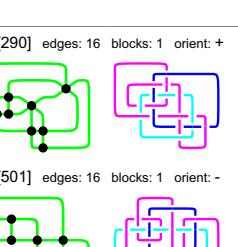
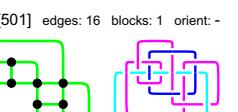
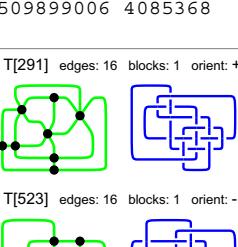
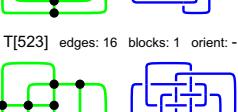
15_{48}^t (0) $4^1 2$ blinks	<p>T[158] edges: 15 blocks: 1 orient: +</p>  <p>T[169] edges: 15 blocks: 1 orient: -</p> 	15_{49}^t (0) 2 blinks																																																									
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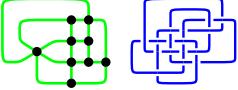
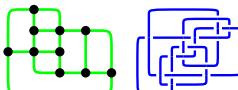
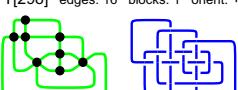
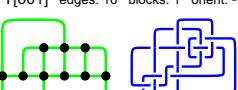
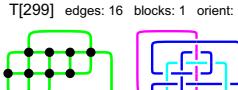
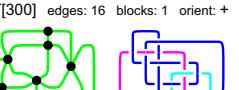
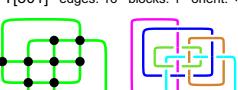
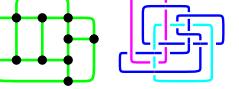
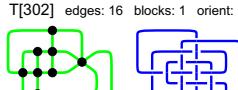
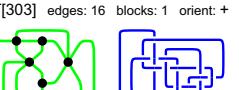
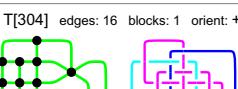
15^t₅₈ (1) 3 ¹ 2 blinks	T[176] edges: 15 blocks: 1 orient: +  T[237] edges: 15 blocks: 1 orient: - 	15^t₅₉ (0) 3 ¹ 2 blinks	T[177] edges: 15 blocks: 1 orient: +  T[255] edges: 15 blocks: 1 orient: - 
T[177] edges: 15 blocks: 1 orient: +  T[255] edges: 15 blocks: 1 orient: - 	15^t₆₀ (0) 2 blinks	T[179] edges: 15 blocks: 1 orient: +  T[247] edges: 15 blocks: 1 orient: - 	
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T[187] edges: 15 blocks: 1 orient: +  T[223] edges: 15 blocks: 1 orient: - 	15^t₆₃ (0) 2 blinks	T[192] edges: 15 blocks: 1 orient: +  T[259] edges: 15 blocks: 1 orient: - 	
T[195] edges: 15 blocks: 1 orient: +  T[232] edges: 15 blocks: 1 orient: - 	15^t₆₄ (0) 2 blinks	T[194] edges: 15 blocks: 1 orient: +  T[248] edges: 15 blocks: 1 orient: - 	15^t₆₅ (0) 3 ¹ 2 blinks
T[195] edges: 15 blocks: 1 orient: +  T[232] edges: 15 blocks: 1 orient: - 	15^t₆₆ (0) 2 blinks	T[199] edges: 15 blocks: 1 orient: +  T[230] edges: 15 blocks: 1 orient: - 	
T[200] edges: 15 blocks: 1 orient: +  T[209] edges: 15 blocks: 1 orient: - 	15^t₆₇ (0) 2 blinks		
T[200] edges: 15 blocks: 1 orient: +  T[209] edges: 15 blocks: 1 orient: - 			

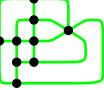
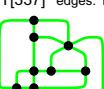
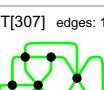
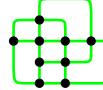
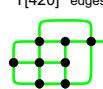
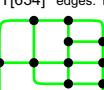
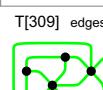
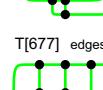
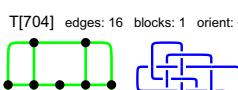
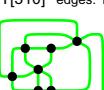
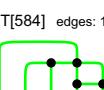
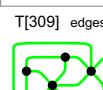
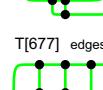
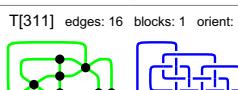
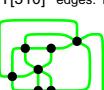
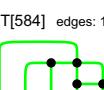
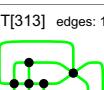
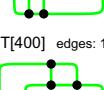
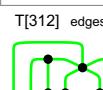
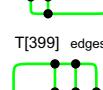
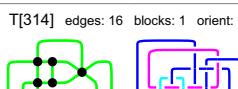
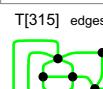
15^t₆₈ (0) 2 blinks	T[201] edges: 15 blocks: 1 orient: +  T[233] edges: 15 blocks: 1 orient: - 	15^t₆₉ (0) 2 blinks	T[202] edges: 15 blocks: 1 orient: +  T[231] edges: 15 blocks: 1 orient: - 
15^t₇₀ (0) 2 blinks	r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 1.026403800 0.163256782 1320 06 0.288675135 0.000000000 11935 07 0.261306880 -0.579317670 60980 08 0.268264961 1.000000000 298132	15^t₇₀ (0) 2 blinks	T[210] edges: 15 blocks: 1 orient: +  T[246] edges: 15 blocks: 1 orient: - 
15^t₇₁ (0) 2 blinks	T[204] edges: 15 blocks: 1 orient: +  T[251] edges: 15 blocks: 1 orient: - 	15^t₇₂ (1) 2 blinks	T[214] edges: 15 blocks: 1 orient: +  T[252] edges: 15 blocks: 1 orient: - 
15^t₇₃ (0) 3 ¹ 2 blinks	r mod theta/pi #sts 03 0.707106781 -0.500000000 2 04 0.500000000 -0.750000000 258 05 0.890351724 -0.876548860 650 06 0.500000000 0.500000000 8045 07 0.488634400 0.390040318 26876 08 0.642982731 -0.125000000 135780	15^t₇₃ (0) 3 ¹ 2 blinks	T[216] edges: 15 blocks: 1 orient: +  T[235] edges: 15 blocks: 1 orient: - 
15^t₇₄ (0) 3 ¹ 2 blinks	T[217] edges: 15 blocks: 1 orient: +  T[234] edges: 15 blocks: 1 orient: - 	15^t₇₅ (0) 3 ¹ 2 blinks	T[218] edges: 15 blocks: 1 orient: +  T[236] edges: 15 blocks: 1 orient: - 
15^t₇₆ (0) 3 ¹ 2 blinks	T[238] edges: 15 blocks: 1 orient: +  T[243] edges: 15 blocks: 1 orient: - 	15^t₇₆ (0) 3 ¹ 2 blinks	T[241] edges: 15 blocks: 1 orient: +  T[260] edges: 15 blocks: 1 orient: - 
16^t₁ (0) 4 ² 2 blinks	T[261] edges: 16 blocks: 1 orient: +  T[306] edges: 16 blocks: 1 orient: - 		

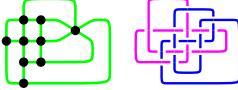
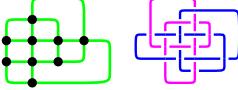
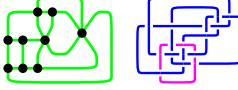
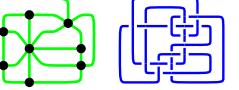
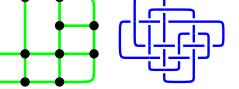
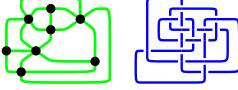
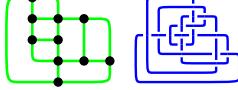
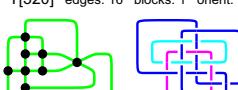
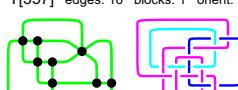
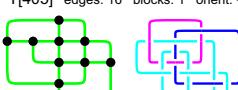
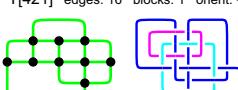
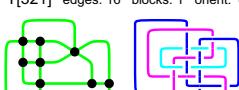
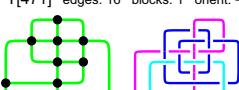
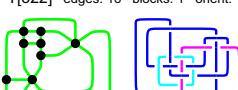
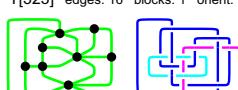
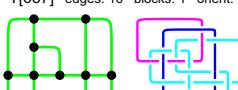
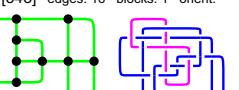
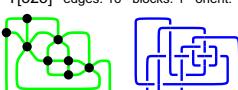
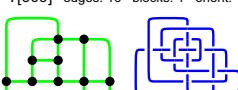
16^t₂ (0) 2 ¹ 2 blinks	T[262] edges: 16 blocks: 1 orient: +  T[384] edges: 16 blocks: 1 orient: - 	16^t₃ (1) 4 ¹ 2 blinks
r 03 0.000000000 0.000000000 2 04 0.923879533 -0.500000000 514 05 0.000000000 0.000000000 1326 06 0.912870929 -0.602416382 23075 07 0.000000000 0.000000000 96144 08 0.638125873 0.759828454 579174	r 03 1.414213562 -0.250000000 4 04 1.414213562 -0.875000000 550 05 0.672850831 0.428067766 2900 06 1.732050808 0.500000000 38859 07 3.137122367 0.124288583 249724 08 3.130053037 -0.149803497 1547708	
T[263] edges: 16 blocks: 1 orient: +  T[621] edges: 16 blocks: 1 orient: - 	16^t₄ (1) 2 blinks	T[264] edges: 16 blocks: 1 orient: +  T[407] edges: 16 blocks: 1 orient: - 
r 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 628 05 0.900693877 -0.324367653 5960 06 1.000000000 0.000000000 79853 07 0.813561196 0.231818128 626464 08 0.931024229 0.000000000 4482128		
16^t₅ (1) 2 blinks	T[265] edges: 16 blocks: 1 orient: +  T[627] edges: 16 blocks: 1 orient: - 	16^t₆ (0) 2 ¹ 2 blinks
r 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 528 05 0.997657828 -0.246908270 2800 06 1.000000000 0.333333333 34311 07 0.931383102 0.085935035 223552 08 2.507575951 0.000000000 1362204	r 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1544 06 0.211324865 0.000000000 26977 07 0.000000000 0.000000000 116414 08 1.300927719 -0.474250102 744756	
T[266] edges: 16 blocks: 1 orient: +  T[703] edges: 16 blocks: 1 orient: - 	16^t₇ (1) 1 blinks	T[267] edges: 16 blocks: 1 orient: + 
r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.252329215 0.000000000 906 06 0.000000000 0.000000000 10119 07 2.042850222 0.000000000 62770 08 0.243148301 0.000000000 329990		
16^t₈ (0) 2 ² 2 blinks	T[268] edges: 16 blocks: 1 orient: +  T[477] edges: 16 blocks: 1 orient: - 	16^t₉ (0) 2 ¹ 2 blinks
r 03 1.414213562 0.000000000 4 04 0.707106781 -0.250000000 526 05 0.558509271 0.589394618 2956 06 0.577350269 -0.333333333 35147 07 2.994413064 -0.117454240 246236 08 2.704245820 0.046976516 1457436	r 03 0.000000000 0.000000000 2 04 0.923879533 0.500000000 514 05 0.000000000 0.000000000 1414 06 0.912870929 0.602416382 24767 07 0.000000000 0.000000000 103674 08 1.103227102 0.657675354 640834	
T[269] edges: 16 blocks: 1 orient: +  T[629] edges: 16 blocks: 1 orient: - 	16^t₁₀ (0) 2 ¹ 2 blinks	T[270] edges: 16 blocks: 1 orient: +  T[412] edges: 16 blocks: 1 orient: - 
r 03 0.000000000 0.000000000 2 04 0.923879533 -0.500000000 514 05 0.000000000 0.000000000 1334 06 0.912870929 -0.602416382 23183 07 0.000000000 0.000000000 97322 08 0.417604439 -0.922849990 591190		
16^t₁₁ (1) 2 blinks	T[271] edges: 16 blocks: 1 orient: +  T[658] edges: 16 blocks: 1 orient: - 	
r 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 708 05 0.108117263 0.363081267 6624 06 1.000000000 0.000000000 93517 07 0.834954750 0.233957549 722848 08 2.019335984 0.000000000 5210784		

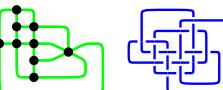
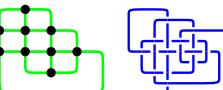
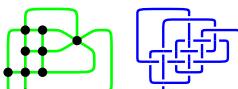
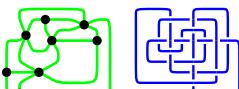
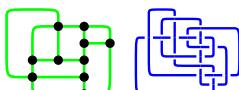
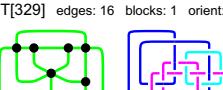
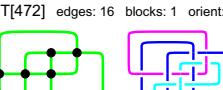
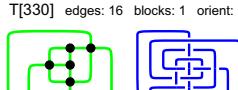
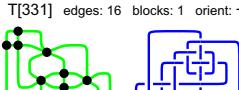
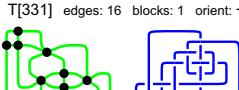
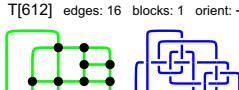
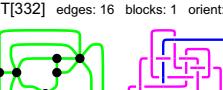
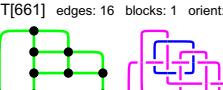
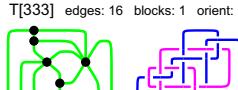
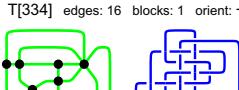
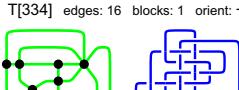
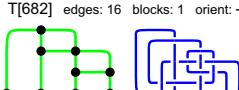
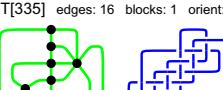
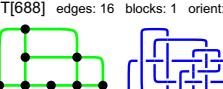
16^t₁₂ (0) 2 blinks	T[272] edges: 16 blocks: 1 orient: +  T[447] edges: 16 blocks: 1 orient: - 	16^t₁₃ (1) 4 ¹ 2 blinks	r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 550 05 0.315070449 0.675632347 2804 06 0.288675135 0.000000000 40423 07 1.321290676 0.658295274 239836 08 0.715005312 0.000000000 1555380
T[273] edges: 16 blocks: 1 orient: +  T[411] edges: 16 blocks: 1 orient: - 	16^t₁₄ (2) 2 blinks	T[274] edges: 16 blocks: 1 orient: +  T[495] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.414213562 -0.250000000 4 04 1.000000000 -0.625000000 550 05 0.741819160 -0.766985400 2740 06 1.732050808 0.500000000 39643 07 1.563250192 0.052011251 234228 08 1.333388883 -0.555265178 1519776
16^t₁₅ (0) 2 ¹ 2 blinks	T[275] edges: 16 blocks: 1 orient: +  T[512] edges: 16 blocks: 1 orient: - 	16^t₁₆ (0) 2 ¹ 2 blinks	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.923879533 -0.500000000 514 05 0.000000000 0.000000000 1418 06 0.912870929 -0.602416382 24467 07 0.000000000 0.000000000 106568 08 0.866052381 0.722474125 656402
T[276] edges: 16 blocks: 1 orient: +  T[519] edges: 16 blocks: 1 orient: - 	16^t₁₇ (0) 2 blinks	T[277] edges: 16 blocks: 1 orient: +  T[571] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.707106781 0.000000000 8 04 0.500000000 0.000000000 680 05 0.421335302 0.076502000 6592 06 0.288675135 0.000000000 83749 07 0.940565110 0.247728273 694536 08 0.300127613 1.000000000 4772792
16^t₁₈ (0) 2 ¹ 2 blinks	T[278] edges: 16 blocks: 1 orient: +  T[500] edges: 16 blocks: 1 orient: - 	16^t₁₉ (1) 1 blinks	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.398227249 0.000000000 902 06 0.000000000 0.000000000 10037 07 0.605909733 0.000000000 62928 08 0.131526742 1.000000000 333660
T[279] edges: 16 blocks: 1 orient: +  T[280] edges: 16 blocks: 1 orient: + 	16^t₂₀ (1) 2 blinks	T[281] edges: 16 blocks: 1 orient: +  T[292] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 388 05 1.077014326 0.000000000 4152 06 1.000000000 0.000000000 48973 07 2.607743601 0.205095322 435104 08 1.304473783 0.000000000 2974248
16^t₂₁ (1) 1 blinks	T[281] edges: 16 blocks: 1 orient: + 		r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.016261238 0.000000000 998 06 0.000000000 0.000000000 11243 07 0.452866517 0.000000000 72402 08 0.407578502 0.000000000 396790

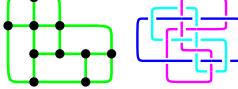
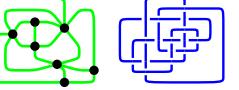
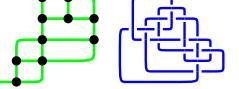
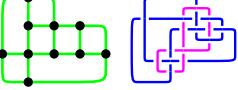
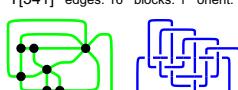
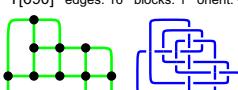
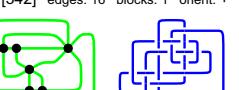
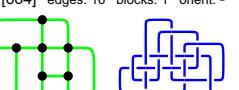
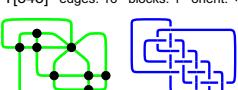
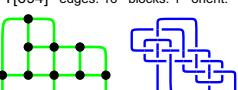
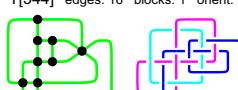
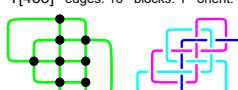
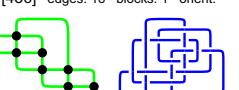
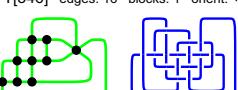
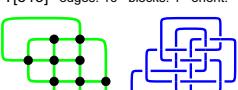
16^t₂₂ (0) 4 ¹ 2 blinks	T[282] edges: 16 blocks: 1 orient: +  T[293] edges: 16 blocks: 1 orient: - 	16^t₂₃ (1) 1 blinks
	r 03 1.000000000 mod 0.250000000 theta/pi 2 #sts 04 0.707106781 -0.375000000 258 05 1.253730175 -0.939827431 966 06 0.577350269 0.333333333 10707 07 0.313168824 0.520278946 68946 08 0.819653970 0.673760621 367574	r 03 1.000000000 mod 0.000000000 theta/pi 8 #sts 04 1.000000000 0.000000000 418 05 2.458980338 0.000000000 4632 06 1.000000000 0.000000000 55445 07 1.294261232 0.000000000 514592 08 3.079077039 0.000000000 3569376
T[283] edges: 16 blocks: 1 orient: +  16^t₂₄ (0) 2 blinks	r 03 0.707106781 0.000000000 mod 4 theta/pi #sts 04 0.500000000 0.000000000 582 05 0.641112653 -0.533346552 2996 06 0.288675135 0.000000000 47479 07 0.596030703 0.561692377 271580 08 0.334254673 0.000000000 1836276	T[284] edges: 16 blocks: 1 orient: +  T[494] edges: 16 blocks: 1 orient: - 
16^t₂₅ (0) 8 ¹ 2 blinks	T[285] edges: 16 blocks: 1 orient: +  T[511] edges: 16 blocks: 1 orient: - 	16^t₂₆ (0) 9 ¹ 2 blinks
T[286] edges: 16 blocks: 1 orient: +  T[518] edges: 16 blocks: 1 orient: -  16^t₂₇ (0) 3 ¹ 2 blinks	r 03 0.707106781 -0.500000000 mod 4 theta/pi #sts 04 0.500000000 -0.750000000 550 05 1.241183707 -0.916358823 3024 06 0.500000000 0.500000000 39627 07 0.366967677 -0.591595892 255072 08 0.308093276 0.875000000 1568448	T[287] edges: 16 blocks: 1 orient: +  T[608] edges: 16 blocks: 1 orient: - 
16^t₂₈ (0) 2 blinks	T[288] edges: 16 blocks: 1 orient: +  T[294] edges: 16 blocks: 1 orient: - 	16^t₂₉ (0) 2 ¹ 2 blinks
T[289] edges: 16 blocks: 1 orient: +  T[509] edges: 16 blocks: 1 orient: -  16^t₃₀ (2) 2 ¹ 2 blinks	r 03 0.000000000 mod 0.000000000 theta/pi 8 #sts 04 1.530733729 1.000000000 588 05 0.000000000 0.000000000 5904 06 1.674469342 -0.070146338 70493 07 0.000000000 0.000000000 593928 08 3.693954253 -0.509899006 4085368	T[290] edges: 16 blocks: 1 orient: +  T[501] edges: 16 blocks: 1 orient: - 
16^t₃₁ (0) 2 ¹ 2 blinks	T[291] edges: 16 blocks: 1 orient: +  T[523] edges: 16 blocks: 1 orient: - 	

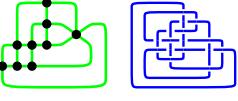
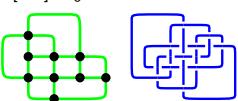
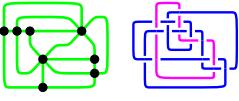
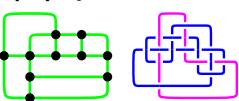
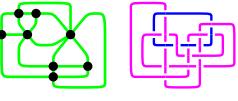
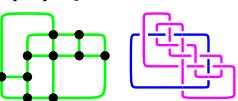
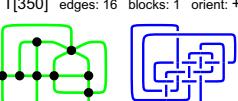
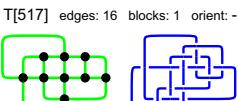
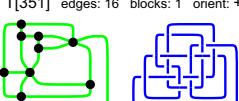
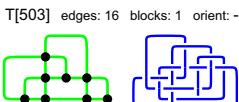
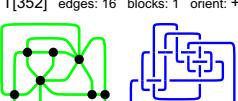
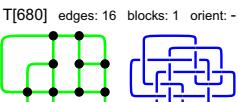
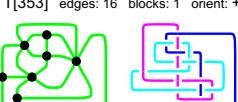
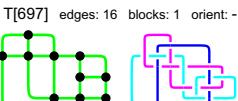
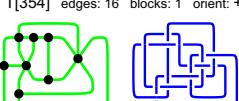
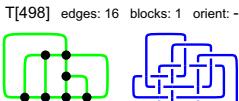
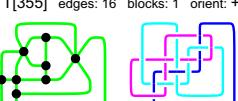
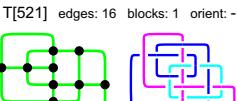
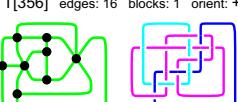
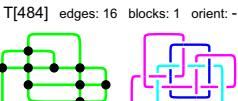
16_{32}^t (1) 2 blinks	T[295] edges: 16 blocks: 1 orient: +  T[409] edges: 16 blocks: 1 orient: - 	16_{33}^t (0) 2^1 2 blinks
r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.503143826 0.478802114 970 06 0.000000000 0.000000000 10807 07 1.098044394 -0.098777433 69212 08 0.277219715 -0.787576275 370054	r 03 0.000000000 0.000000000 2 04 0.923879533 0.500000000 514 05 0.000000000 0.000000000 1478 06 0.912870929 0.602416382 25373 07 0.000000000 0.000000000 112424 08 0.897394510 0.536482621 691548	
T[296] edges: 16 blocks: 1 orient: +  T[576] edges: 16 blocks: 1 orient: - 	16_{34}^t (1) 1 blinks	T[297] edges: 16 blocks: 1 orient: + 
r 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.106431181 0.000000000 982 06 0.000000000 0.000000000 11083 07 0.030240959 0.000000000 70818 08 0.977197809 1.000000000 390342		
16_{35}^t (0) 2^1 2 blinks	T[298] edges: 16 blocks: 1 orient: +  T[601] edges: 16 blocks: 1 orient: - 	16_{36}^t (3) 1 blinks
r 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1414 06 0.788675135 1.000000000 24419 07 0.000000000 0.000000000 106088 08 1.093410792 -0.459712714 652110	r 03 2.000000000 0.000000000 8 04 4.000000000 0.000000000 348 05 3.390096630 0.000000000 4296 06 4.000000000 0.000000000 49965 07 4.378938155 0.000000000 447168 08 6.030303803 0.000000000 3109360	
T[299] edges: 16 blocks: 1 orient: +  T[300] edges: 16 blocks: 1 orient: + 	16_{37}^t (0) 2^1 2 blinks	T[301] edges: 16 blocks: 1 orient: +  T[528] edges: 16 blocks: 1 orient: - 
16_{38}^t (3) 1 blinks		16_{39}^t (1) 2 blinks
r 03 2.000000000 0.000000000 32 04 4.000000000 0.000000000 1016 05 9.347524158 0.000000000 23360 06 15.000000000 0.000000000 378193 07 21.457563895 0.000000000 4484832 08 33.608081014 0.000000000 40764448	r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 1.559495855 0.187227673 966 06 1.000000000 0.000000000 10707 07 0.183489302 -0.472575618 68946 08 0.691027852 -0.234623854 367574	
T[302] edges: 16 blocks: 1 orient: +  T[303] edges: 16 blocks: 1 orient: + 	16_{40}^t (0) 2^1 2 blinks	T[304] edges: 16 blocks: 1 orient: +  T[433] edges: 16 blocks: 1 orient: - 
16_{41}^t (1) 2 blinks		
r 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 356 05 1.249042228 0.093934688 4000 06 2.000000000 0.000000000 49393 07 1.167429750 0.022595970 419368 08 0.115656965 0.000000000 2966376		

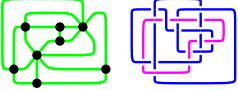
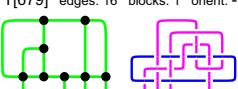
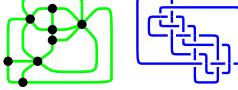
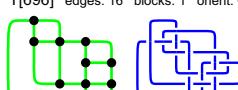
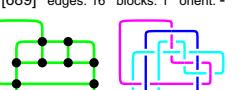
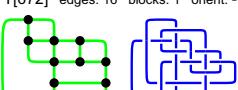
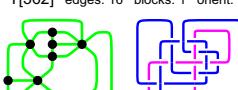
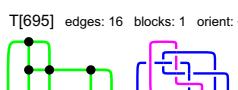
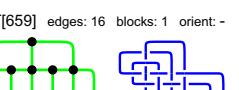
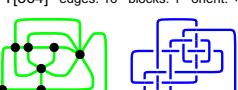
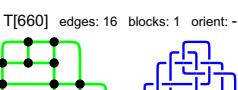
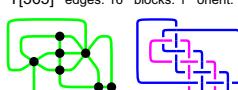
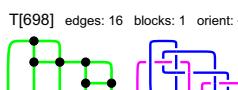
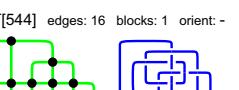
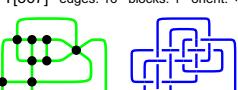
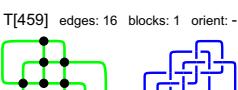
16^t₄₂ (0) 2 ² 4 blinks	T[305] edges: 16 blocks: 1 orient: +  T[337] edges: 16 blocks: 1 orient: +  T[420] edges: 16 blocks: 1 orient: - 	T[387] edges: 16 blocks: 1 orient: -  T[420] edges: 16 blocks: 1 orient: - 	
16^t₄₃ (0) 2 blinks	T[307] edges: 16 blocks: 1 orient: +  T[634] edges: 16 blocks: 1 orient: - 	16^t₄₄ (0) 2 ¹ 2 blinks	T[309] edges: 16 blocks: 1 orient: +  T[677] edges: 16 blocks: 1 orient: - 
16^t₄₅ (0) 2 ¹ 2 blinks	T[308] edges: 16 blocks: 1 orient: +  T[704] edges: 16 blocks: 1 orient: - 	T[307] edges: 16 blocks: 1 orient: +  T[634] edges: 16 blocks: 1 orient: - 	
16^t₄₆ (0) 2 ¹ 2 blinks	T[310] edges: 16 blocks: 1 orient: +  T[584] edges: 16 blocks: 1 orient: - 	16^t₄₇ (0) 2 ¹ 2 blinks	T[309] edges: 16 blocks: 1 orient: +  T[677] edges: 16 blocks: 1 orient: - 
16^t₄₈ (1) 2 ¹ 2 blinks	T[311] edges: 16 blocks: 1 orient: +  T[610] edges: 16 blocks: 1 orient: - 	T[310] edges: 16 blocks: 1 orient: +  T[584] edges: 16 blocks: 1 orient: - 	
16^t₄₉ (1) 2 blinks	T[313] edges: 16 blocks: 1 orient: +  T[400] edges: 16 blocks: 1 orient: - 	16^t₅₀ (1) 2 blinks	T[312] edges: 16 blocks: 1 orient: +  T[399] edges: 16 blocks: 1 orient: - 
16^t₅₁ (0) 2 ¹ 2 blinks	T[314] edges: 16 blocks: 1 orient: +  T[465] edges: 16 blocks: 1 orient: - 	T[315] edges: 16 blocks: 1 orient: +  T[602] edges: 16 blocks: 1 orient: - 	

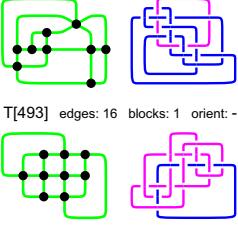
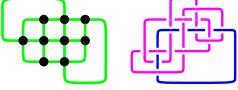
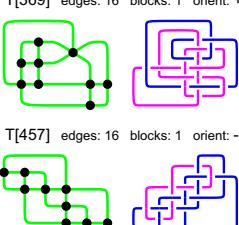
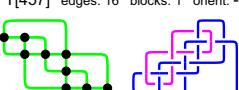
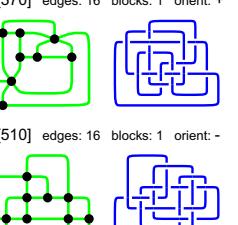
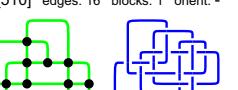
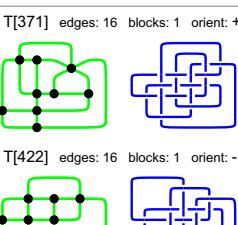
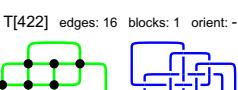
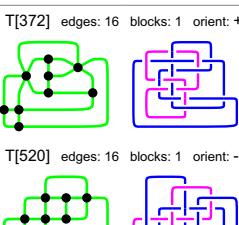
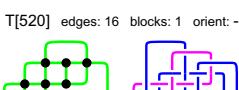
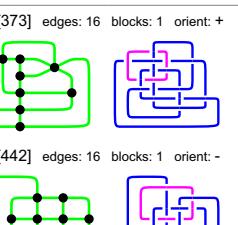
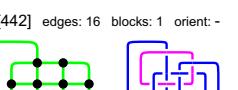
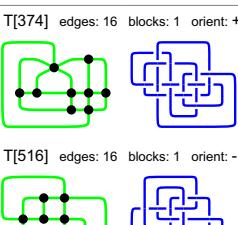
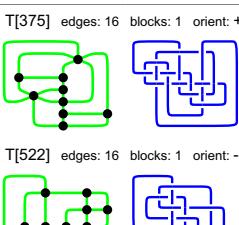
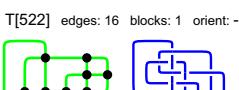
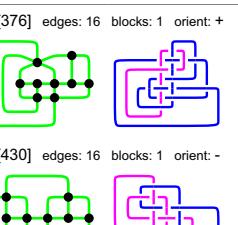
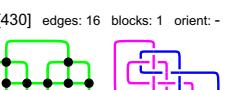
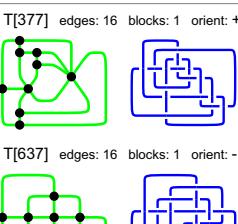
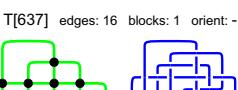
16_{52}^t (0) $2^1 2$ blinks	T[316] edges: 16 blocks: 1 orient: +  T[441] edges: 16 blocks: 1 orient: - 	16_{53}^t (0) $9^1 2$ blinks	r 03 0.000000000 mod 0.000000000 #sts 4 04 0.382683432 1.000000000 272 05 0.000000000 0.000000000 1952 06 0.211324865 0.000000000 18491 07 0.000000000 0.000000000 153568 08 0.073300262 0.399853563 915336
T[317] edges: 16 blocks: 1 orient: +  T[446] edges: 16 blocks: 1 orient: - 	16_{54}^t (0) $2^1 2$ blinks	T[318] edges: 16 blocks: 1 orient: +  T[706] edges: 16 blocks: 1 orient: - 	r 03 0.000000000 mod 0.000000000 #sts 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1544 06 0.912870929 -0.602416382 26977 07 0.000000000 0.000000000 116414 08 0.162325336 -0.170530864 744756
16_{55}^t (0) $2^1 2$ blinks	T[319] edges: 16 blocks: 1 orient: +  T[611] edges: 16 blocks: 1 orient: - 	16_{56}^t (1) 4 blinks	r 03 1.000000000 mod 0.000000000 #sts 8 04 1.000000000 0.000000000 420 05 1.249042228 0.093934688 4512 06 2.000000000 0.000000000 61009 07 1.748655511 -0.081646235 501032 08 0.801948466 0.000000000 3620288
T[320] edges: 16 blocks: 1 orient: +  T[357] edges: 16 blocks: 1 orient: + 	T[405] edges: 16 blocks: 1 orient: -  T[421] edges: 16 blocks: 1 orient: - 	16_{57}^t (0) 2 blinks	T[321] edges: 16 blocks: 1 orient: +  T[471] edges: 16 blocks: 1 orient: - 
16_{58}^t (0) $4^1 2$ blinks	T[322] edges: 16 blocks: 1 orient: +  T[440] edges: 16 blocks: 1 orient: - 	16_{59}^t (1) 2 blinks	r 03 1.000000000 mod 0.000000000 #sts 8 04 1.000000000 0.000000000 708 05 0.746815910 -0.054068341 6752 06 1.000000000 0.000000000 97773 07 0.488804170 -0.089084307 756064 08 0.705627485 0.000000000 5501288
T[323] edges: 16 blocks: 1 orient: +  T[657] edges: 16 blocks: 1 orient: - 	16_{60}^t (0) $3^1 2$ blinks	T[324] edges: 16 blocks: 1 orient: +  T[543] edges: 16 blocks: 1 orient: - 	T[325] edges: 16 blocks: 1 orient: +  T[609] edges: 16 blocks: 1 orient: - 
16_{61}^t (0) $2^1 2$ blinks			
r 03 0.000000000 mod 0.000000000 #sts 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1438 06 0.912870929 -0.602416382 24835 07 0.000000000 0.000000000 109268 08 0.117015769 0.591324322 687378			

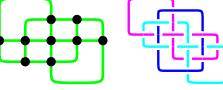
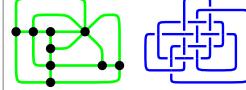
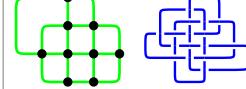
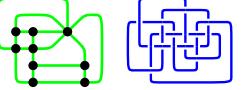
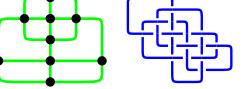
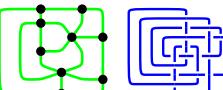
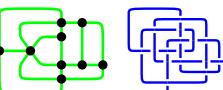
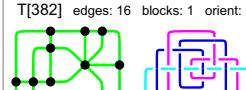
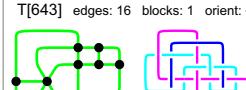
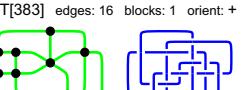
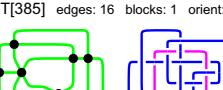
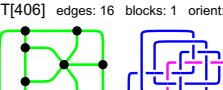
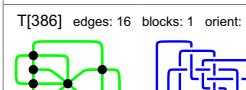
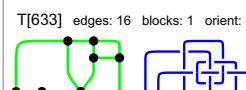
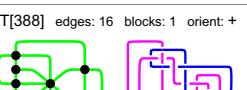
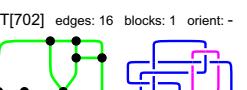
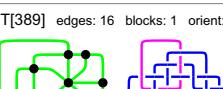
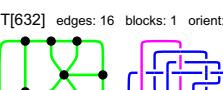
16^t₆₂ (1) 2 blinks	T[326] edges: 16 blocks: 1 orient: +  T[448] edges: 16 blocks: 1 orient: - 	16^t₆₃ (0) 4 ¹ 2 blinks	r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.875000000 258 05 1.633415888 -0.733379037 966 06 0.577350269 -0.333333333 10707 07 0.463254164 -0.777682635 68946 08 0.885117203 0.389032145 367574
T[327] edges: 16 blocks: 1 orient: +  T[443] edges: 16 blocks: 1 orient: - 	16^t₆₄ (0) 2 ¹ 2 blinks	T[328] edges: 16 blocks: 1 orient: +  T[542] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.923879533 0.500000000 514 05 0.000000000 0.000000000 1436 06 0.912870929 0.602416382 24949 07 0.000000000 0.000000000 106676 08 0.486547537 0.545890658 657408
16^t₆₅ (0) 2 blinks	T[329] edges: 16 blocks: 1 orient: +  T[472] edges: 16 blocks: 1 orient: - 	16^t₆₆ (1) 1 blinks	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.859126965 1.000000000 926 06 1.000000000 0.000000000 10531 07 1.794350907 0.000000000 65086 08 2.948775786 0.000000000 357942
T[330] edges: 16 blocks: 1 orient: +  T[612] edges: 16 blocks: 1 orient: - 	16^t₆₇ (0) 2 ¹ 2 blinks	T[331] edges: 16 blocks: 1 orient: +  T[612] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1408 06 0.788675135 1.000000000 24373 07 0.000000000 0.000000000 104524 08 0.894904414 -0.514920332 642112
16^t₆₈ (0) 2 blinks	T[332] edges: 16 blocks: 1 orient: +  T[661] edges: 16 blocks: 1 orient: - 	16^t₆₉ (1) 2 blinks	r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 528 05 1.114856669 0.098121917 2896 06 1.000000000 -0.333333333 35527 07 0.822155195 -0.502817649 233924 08 0.580735804 0.000000000 1434884
T[333] edges: 16 blocks: 1 orient: +  T[666] edges: 16 blocks: 1 orient: - 	16^t₇₀ (0) 2 ¹ 2 blinks	T[334] edges: 16 blocks: 1 orient: +  T[682] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1468 06 0.912870929 0.602416382 25083 07 0.000000000 0.000000000 112540 08 0.499207650 0.332886269 699290
16^t₇₁ (0) 2 ¹ 2 blinks	T[335] edges: 16 blocks: 1 orient: +  T[688] edges: 16 blocks: 1 orient: - 		r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1448 06 0.912870929 0.602416382 24799 07 0.000000000 0.000000000 109160 08 0.705998668 -0.412942716 670566

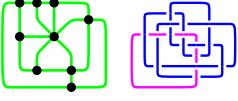
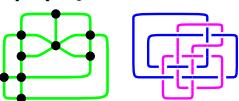
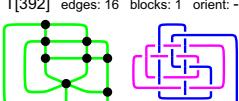
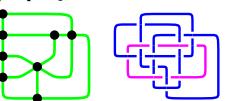
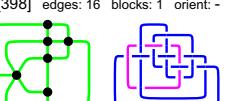
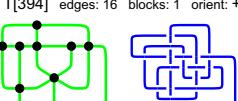
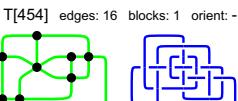
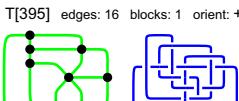
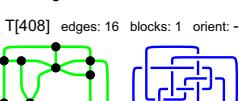
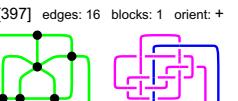
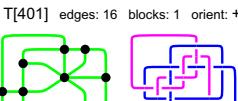
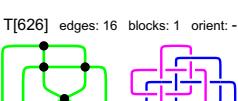
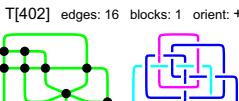
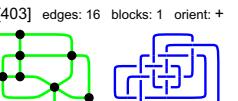
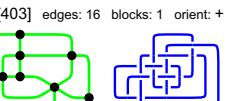
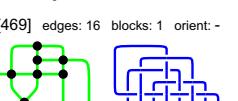
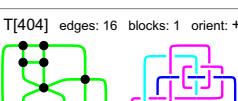
16^t₇₂ (0) 2 blinks	T[336] edges: 16 blocks: 1 orient: +  T[662] edges: 16 blocks: 1 orient: - 	16^t₇₃ (1) 2 ¹ 2 blinks	r mod theta/pi #sts 03 0.707106781 0.000000000 8 04 0.500000000 0.000000000 608 05 0.923171276 -0.219401506 6024 06 0.288675135 0.000000000 78237 07 0.172989398 -0.027039997 630408 08 1.042964181 0.000000000 4479072
T[338] edges: 16 blocks: 1 orient: +  T[692] edges: 16 blocks: 1 orient: - 	16^t₇₄ (0) 2 ¹ 2 blinks	T[339] edges: 16 blocks: 1 orient: +  T[651] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1372 06 0.912870929 -0.602416382 23995 07 0.000000000 0.000000000 100376 08 0.714724605 -0.362356848 618006
16^t₇₅ (1) 2 blinks	T[340] edges: 16 blocks: 1 orient: +  T[691] edges: 16 blocks: 1 orient: - 	16^t₇₆ (0) 2 ¹ 2 blinks	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 534 05 0.851092361 -0.150800934 3016 06 1.000000000 0.333333333 38375 07 0.761419713 0.203809584 254232 08 0.892352262 0.000000000 1573584
T[341] edges: 16 blocks: 1 orient: +  T[690] edges: 16 blocks: 1 orient: - 	16^t₇₇ (0) 2 ¹ 2 blinks	T[342] edges: 16 blocks: 1 orient: +  T[664] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1408 06 0.912870929 -0.602416382 24373 07 0.000000000 0.000000000 104524 08 0.786888369 -0.377301212 642112
16^t₇₈ (0) 2 ¹ 2 blinks	T[343] edges: 16 blocks: 1 orient: +  T[694] edges: 16 blocks: 1 orient: - 	16^t₇₉ (1) 2 blinks	r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 336 05 0.412322515 0.343153737 4240 06 0.000000000 0.000000000 47677 07 0.860334494 0.899508335 432264 08 0.509667992 1.000000000 3001232
T[344] edges: 16 blocks: 1 orient: +  T[455] edges: 16 blocks: 1 orient: - 	16^t₈₀ (1) 2 blinks	T[345] edges: 16 blocks: 1 orient: +  T[436] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.086155278 0.210914604 964 06 1.000000000 -0.333333333 10851 07 1.429790678 -0.402450904 67044 08 0.156779911 1.000000000 352830
16^t₈₁ (0) 4 ¹ 2 blinks	T[346] edges: 16 blocks: 1 orient: +  T[513] edges: 16 blocks: 1 orient: - 		

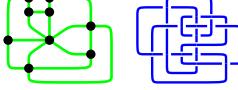
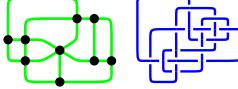
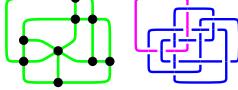
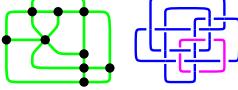
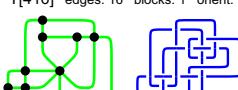
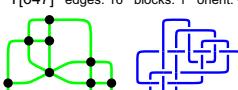
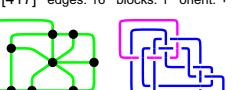
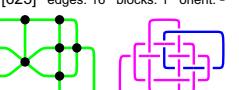
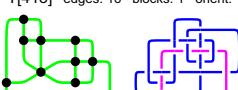
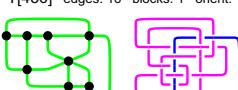
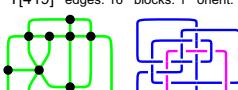
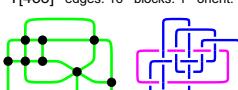
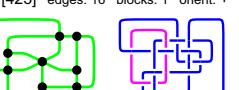
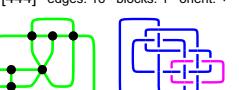
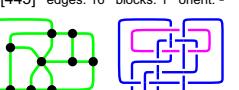
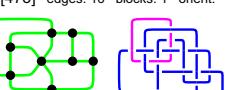
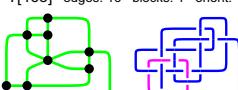
16^t₈₂ (1) 2 blinks	T[347] edges: 16 blocks: 1 orient: +  T[432] edges: 16 blocks: 1 orient: - 	16^t₈₃ (0) 2 blinks
r 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.326112662 -0.084700878 964 06 1.000000000 -0.333333333 10771 07 0.422092734 -0.597421046 68326 08 0.301007576 1.000000000 366002	r 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 534 05 0.521739201 0.405675654 2952 06 0.288675135 0.000000000 38995 07 0.566537996 0.465718283 247972 08 0.384782034 0.000000000 1575412	
T[348] edges: 16 blocks: 1 orient: +  T[671] edges: 16 blocks: 1 orient: - 	16^t₈₄ (1) 4 ¹ 2 blinks	T[349] edges: 16 blocks: 1 orient: +  T[693] edges: 16 blocks: 1 orient: - 
r 03 1.414213562 -0.250000000 4 04 1.414213562 -0.375000000 550 05 0.561712465 -0.025632347 3024 06 1.000000000 0.000000000 39627 07 1.542019889 -0.278641287 255072 08 2.772392528 -0.538478828 1568448		
16^t₈₅ (1) 2 blinks	T[350] edges: 16 blocks: 1 orient: +  T[517] edges: 16 blocks: 1 orient: - 	16^t₈₆ (0) 4 ¹ 2 blinks
r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.168979790 -0.967062535 996 06 0.577350269 1.000000000 11257 07 0.806570941 -0.668859765 71138 08 1.055901081 -0.425311223 383468		
T[351] edges: 16 blocks: 1 orient: +  T[503] edges: 16 blocks: 1 orient: - 	16^t₈₇ (0) 2 ¹ 2 blinks	T[352] edges: 16 blocks: 1 orient: +  T[680] edges: 16 blocks: 1 orient: - 
r 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1454 06 0.912870929 0.602416382 25247 07 0.000000000 0.000000000 107972 08 0.303618191 0.060642571 667434		
16^t₈₈ (1) 2 ¹ 2 blinks	T[353] edges: 16 blocks: 1 orient: +  T[697] edges: 16 blocks: 1 orient: - 	16^t₈₉ (0) 4 ¹ 2 blinks
r 03 0.000000000 0.250000000 2 04 0.765366865 1.000000000 258 05 0.000000000 0.000000000 996 06 0.000000000 0.000000000 11257 07 0.000000000 0.000000000 71138 08 2.550485806 0.506394998 383468	r 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 258 05 0.145453388 0.678829123 996 06 1.154700538 0.000000000 11257 07 1.762261658 -0.355673053 71138 08 0.918743975 0.783374512 383468	
T[354] edges: 16 blocks: 1 orient: +  T[498] edges: 16 blocks: 1 orient: - 	16^t₉₀ (2) 2 blinks	T[355] edges: 16 blocks: 1 orient: +  T[521] edges: 16 blocks: 1 orient: - 
r 03 1.414213562 0.000000000 8 04 2.000000000 0.000000000 332 05 2.235248155 -0.012551080 4400 06 2.000000000 -0.166666667 48337 07 2.455762189 -0.188777720 449976 08 2.101059098 0.000000000 3144992		
16^t₉₁ (0) 4 ¹ 2 blinks	T[356] edges: 16 blocks: 1 orient: +  T[484] edges: 16 blocks: 1 orient: - 	
r 03 1.000000000 0.250000000 8 04 0.707106781 0.375000000 344 05 0.691186872 -0.806466582 4368 06 0.577350269 -0.333333333 49205 07 1.158728487 -0.303579827 457144 08 1.022111789 -0.379290227 3183312		

16^t₉₂ (0) 2 blinks	T[358] edges: 16 blocks: 1 orient: +  T[679] edges: 16 blocks: 1 orient: - 	16^t₉₃ (0) 2 ¹ 2 blinks	r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 534 05 0.501881706 -0.401823181 3072 06 0.288675135 0.000000000 40255 07 0.511825257 -0.303186382 264832 08 0.326191883 1.000000000 1685200
T[359] edges: 16 blocks: 1 orient: +  T[696] edges: 16 blocks: 1 orient: - 	16^t₉₄ (1) 2 blinks	T[360] edges: 16 blocks: 1 orient: +  T[689] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 596 05 1.545135630 0.002577542 6248 06 2.000000000 0.000000000 75249 07 1.863769401 0.160845351 645904 08 1.492424049 0.000000000 4468960
16^t₉₅ (0) 2 ¹ 2 blinks	T[361] edges: 16 blocks: 1 orient: +  T[672] edges: 16 blocks: 1 orient: - 	16^t₉₆ (1) 2 blinks	r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 534 05 0.534986917 0.291247584 3100 06 1.000000000 -0.333333333 396999 07 1.897697743 -0.066227575 265320 08 1.953318806 0.000000000 1664720
T[362] edges: 16 blocks: 1 orient: +  T[695] edges: 16 blocks: 1 orient: - 	16^t₉₇ (0) 2 ¹ 2 blinks	T[363] edges: 16 blocks: 1 orient: +  T[659] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1436 06 0.211324865 0.000000000 24817 07 0.000000000 0.000000000 108922 08 0.974871571 -0.524094378 684920
16^t₉₈ (0) 2 ¹ 2 blinks	T[364] edges: 16 blocks: 1 orient: +  T[660] edges: 16 blocks: 1 orient: - 	16^t₉₉ (1) 2 blinks	r mod theta/pi #sts 03 1.000000000 0.000000000 4 04 1.000000000 0.000000000 534 05 0.926193155 -0.105918752 2932 06 1.000000000 0.333333333 38555 07 0.404971102 0.522999050 246312 08 0.036579926 1.000000000 1557988
T[365] edges: 16 blocks: 1 orient: +  T[698] edges: 16 blocks: 1 orient: - 	16^t₁₀₀ (1) 2 blinks	T[366] edges: 16 blocks: 1 orient: +  T[544] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.737358413 0.238388308 1070 06 1.000000000 0.000000000 12695 07 0.760679071 -0.011037724 78754 08 1.222945766 0.000000000 460946
16^t₁₀₁ (1) 2 blinks	T[367] edges: 16 blocks: 1 orient: +  T[459] edges: 16 blocks: 1 orient: - 		r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.168608821 0.307675480 990 06 1.000000000 0.000000000 11215 07 1.037621641 -0.272820779 71000 08 0.865514665 0.000000000 389110

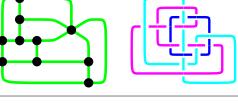
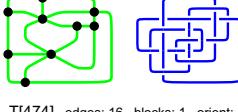
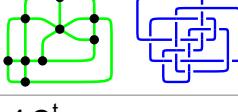
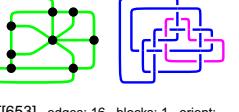
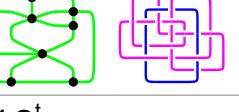
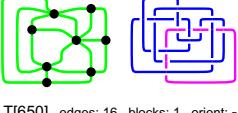
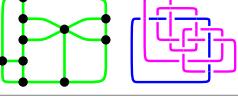
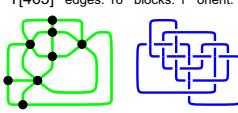
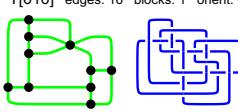
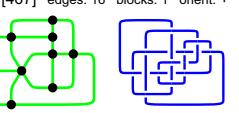
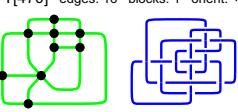
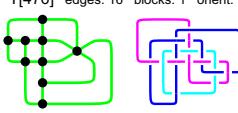
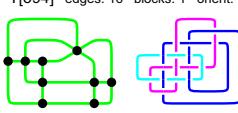
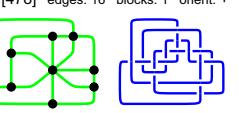
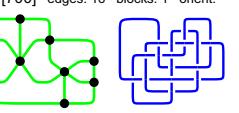
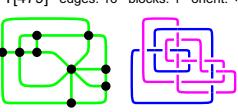
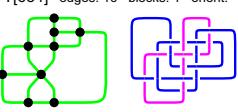
16^t₁₀₂ (1) 2¹ 2 blinks	T[368] edges: 16 blocks: 1 orient: +  T[493] edges: 16 blocks: 1 orient: - 	16^t₁₀₃ (0) 3¹ 2 blinks
r 03 0.000000000 0.000000000 4 04 0.765366865 1.000000000 294 05 0.000000000 0.000000000 2100 06 0.732050808 0.000000000 23947 07 0.000000000 0.000000000 183148 08 1.070854235 0.584339235 1147624	r 03 0.707106781 -0.500000000 4 04 0.500000000 -0.750000000 280 05 0.661390947 -0.235419135 1992 06 0.500000000 0.500000000 21483 07 0.603806787 -0.178058538 162392 08 0.090521482 0.875000000 1020184	
T[369] edges: 16 blocks: 1 orient: +  T[457] edges: 16 blocks: 1 orient: - 	16^t₁₀₄ (0) 4¹ 2 blinks	T[370] edges: 16 blocks: 1 orient: +  T[510] edges: 16 blocks: 1 orient: - 
r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.823911767 -0.770685706 970 06 0.577350269 -0.333333333 10807 07 1.072643073 -0.053543540 69212 08 0.234544591 0.997084172 370054	r 03 0.250000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.705916172 -0.255932440 1034 06 0.577350269 0.333333333 11879 07 0.190543354 -0.418404495 75382 08 0.789349826 0.341690449 421962	
16^t₁₀₅ (0) 4¹ 2 blinks	T[371] edges: 16 blocks: 1 orient: +  T[422] edges: 16 blocks: 1 orient: - 	16^t₁₀₆ (0) 2¹ 2 blinks
r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.823911767 -0.770685706 970 06 0.577350269 -0.333333333 10807 07 1.072643073 -0.053543540 69212 08 0.234544591 0.997084172 370054	r 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 278 05 0.000000000 0.000000000 2156 06 0.912870929 0.602416382 23607 07 0.000000000 0.000000000 180724 08 0.318293251 -0.417571786 1135568	
T[372] edges: 16 blocks: 1 orient: +  T[520] edges: 16 blocks: 1 orient: - 	16^t₁₀₇ (0) 2 blinks	T[373] edges: 16 blocks: 1 orient: +  T[442] edges: 16 blocks: 1 orient: - 
r 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 0.371487688 0.302095264 2132 06 0.288675135 0.000000000 23923 07 0.393360637 -0.020548073 187872 08 0.252802610 0.000000000 1126780		
16^t₁₀₈ (1) 2 blinks	T[374] edges: 16 blocks: 1 orient: +  T[516] edges: 16 blocks: 1 orient: - 	16^t₁₀₉ (0) 4¹ 2 blinks
r 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.453809691 0.901089170 990 06 1.000000000 0.000000000 11215 07 1.495959280 0.091751783 71000 08 1.588386093 0.000000000 389110	r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.763140425 0.635781556 1022 06 0.577350269 1.000000000 11489 07 1.267382097 -0.418537033 73364 08 1.254893001 -0.434432202 396180	
T[375] edges: 16 blocks: 1 orient: +  T[522] edges: 16 blocks: 1 orient: - 	16^t₁₁₀ (0) 2 blinks	T[376] edges: 16 blocks: 1 orient: +  T[430] edges: 16 blocks: 1 orient: - 
r 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 294 05 0.612995846 -0.254762954 2012 06 0.288675135 0.000000000 21419 07 0.379695794 -0.773635163 166328 08 0.109752294 0.000000000 989880		
16^t₁₁₁ (0) 4¹ 2 blinks	T[377] edges: 16 blocks: 1 orient: +  T[637] edges: 16 blocks: 1 orient: - 	
r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.258731026 -0.117147302 980 06 0.577350269 1.000000000 11073 07 1.331573187 -0.283361122 68864 08 1.109517346 -0.388359569 366256		

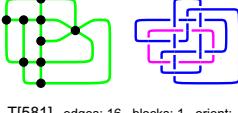
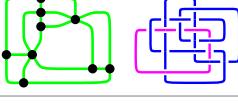
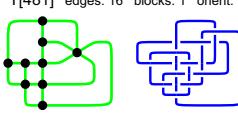
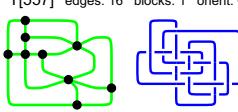
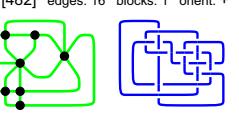
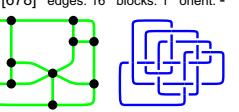
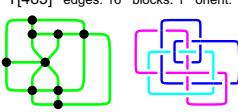
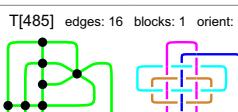
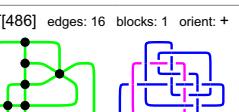
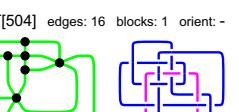
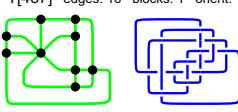
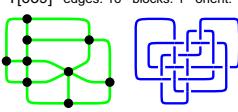
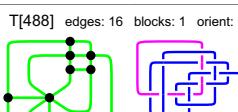
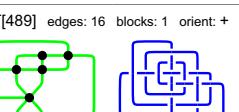
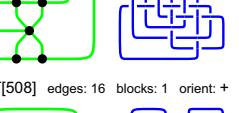
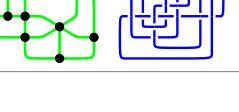
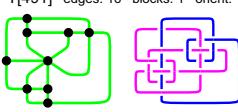
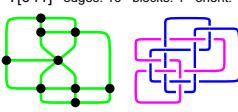
16^t_{112} (2) 2 blinks	T[378] edges: 16 blocks: 1 orient: +  T[642] edges: 16 blocks: 1 orient: - 	16^t_{113} (0) 4^1 2 blinks
r mod theta/pi #sts 03 1.414213562 0.000000000 8 04 2.000000000 0.000000000 324 05 2.574770533 0.043266666 4304 06 1.000000000 -0.166666667 46353 07 4.072920701 -0.231971999 430864 08 4.265843498 0.000000000 3006952	r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 1.154896484 -0.253625999 970 06 0.577350269 0.333333333 10807 07 0.725898295 -0.210217560 69212 08 0.356167484 -0.207587467 370054	
T[379] edges: 16 blocks: 1 orient: +  T[649] edges: 16 blocks: 1 orient: - 	16^t_{114} (0) 4^1 2 blinks	T[380] edges: 16 blocks: 1 orient: +  T[655] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.561633512 -0.663492147 1012 06 0.577350269 -0.333333333 11303 07 1.815200105 -0.122107334 72414 08 0.388907631 0.515550382 386778		
16^t_{115} (1) 2 blinks	T[381] edges: 16 blocks: 1 orient: +  T[475] edges: 16 blocks: 1 orient: - 	16^t_{116} (2) 2 blinks
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 316 05 1.172623931 0.301103534 698 06 1.000000000 0.333333333 8327 07 0.064587572 0.682124072 35462 08 1.213898644 0.802071108 176486	r mod theta/pi #sts 03 1.414213562 0.000000000 8 04 2.000000000 0.000000000 316 05 2.466214183 -0.190568611 3064 06 2.645751311 -0.060518859 29291 07 2.233101008 -0.392297325 224488 08 3.125192762 1.000000000 1365784	
T[382] edges: 16 blocks: 1 orient: +  T[643] edges: 16 blocks: 1 orient: - 	16^t_{117} (1) 1 blinks	T[383] edges: 16 blocks: 1 orient: + 
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.196601125 0.000000000 716 06 0.000000000 0.000000000 8449 07 0.474890796 0.000000000 36852 08 0.032036907 0.000000000 182374		
16^t_{118} (0) 2^2 2 blinks	T[385] edges: 16 blocks: 1 orient: +  T[406] edges: 16 blocks: 1 orient: - 	16^t_{119} (0) 2^1 2 blinks
r mod theta/pi #sts 03 1.414213562 0.000000000 4 04 0.707106781 0.250000000 534 05 1.180044768 0.280272849 2392 06 2.309401077 0.333333333 32557 07 3.175820197 0.379375555 156128 08 0.663789600 0.065199754 958524	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.382683432 1.000000000 514 05 0.000000000 0.000000000 1256 06 0.211324865 0.000000000 23029 07 0.000000000 0.000000000 73832 08 1.217268999 -0.494156568 470246	
T[386] edges: 16 blocks: 1 orient: +  T[633] edges: 16 blocks: 1 orient: - 	16^t_{120} (0) 3^1 2 blinks	T[388] edges: 16 blocks: 1 orient: +  T[702] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.707106781 -0.500000000 4 04 0.500000000 -0.750000000 550 05 0.533393887 -0.938140696 2700 06 0.500000000 0.500000000 36645 07 0.635218233 -0.783431069 182396 08 0.439409469 0.875000000 1108404		
16^t_{121} (0) 2 blinks	T[389] edges: 16 blocks: 1 orient: +  T[632] edges: 16 blocks: 1 orient: - 	
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 582 05 0.311057693 -0.569146580 2528 06 0.288675135 0.000000000 39189 07 0.487448477 -0.652352035 175448 08 0.186343924 1.000000000 1133304		

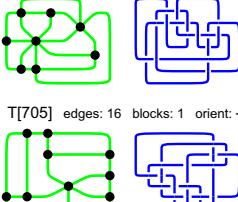
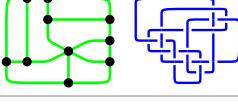
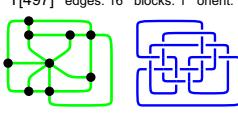
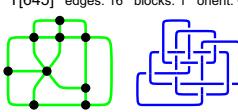
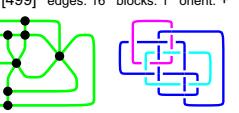
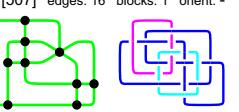
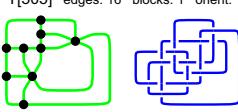
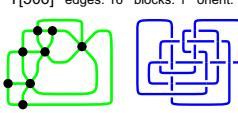
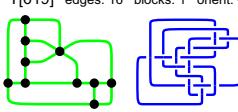
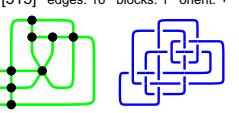
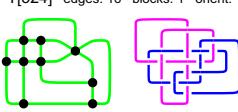
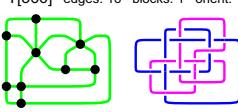
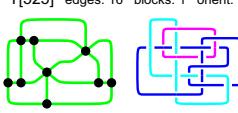
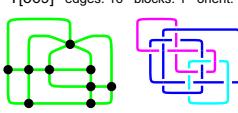
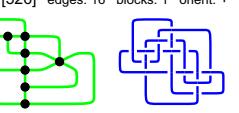
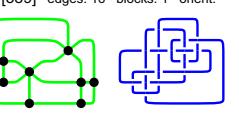
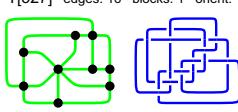
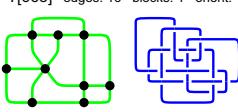
16^t_{122} (1) 2^1 2 blinks	T[390] edges: 16 blocks: 1 orient: +  T[620] edges: 16 blocks: 1 orient: - 	16^t_{123} (0) 3^1 2 blinks
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.847759065 -0.500000000 278 05 0.000000000 0.000000000 1584 06 1.931851652 0.750000000 15281 07 0.000000000 0.000000000 97644 08 2.246947017 -0.137020653 519252	r mod theta/pi #sts 03 0.707106781 0.500000000 4 04 0.500000000 -0.250000000 268 05 0.861751833 -0.500000000 1564 06 0.500000000 -0.500000000 13729 07 0.263456358 -0.427267472 92068 08 0.296828127 0.625000000 484132	
T[391] edges: 16 blocks: 1 orient: +  T[392] edges: 16 blocks: 1 orient: - 	16^t_{124} (1) 2^1 2 blinks	T[393] edges: 16 blocks: 1 orient: +  T[398] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.000000000 0.625000000 278 05 0.000000000 0.000000000 1600 06 0.000000000 0.000000000 16233 07 0.000000000 0.000000000 99928 08 0.459728757 0.437500000 550300		
16^t_{125} (0) 4^1 2 blinks	T[394] edges: 16 blocks: 1 orient: +  T[454] edges: 16 blocks: 1 orient: - 	16^t_{126} (0) 8^1 2 blinks
r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.875000000 258 05 1.179974391 -0.906035179 764 06 0.577350269 -0.333333333 8959 07 1.011024697 0.386210835 40630 08 0.977531458 -0.602693271 205072	r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.000000000 0.000000000 258 05 1.599543756 0.891291157 782 06 0.577350269 -0.666666667 9209 07 0.727710561 0.648692145 42296 08 0.795547829 0.757402671 217402	
T[395] edges: 16 blocks: 1 orient: +  T[408] edges: 16 blocks: 1 orient: - 	16^t_{127} (0) 1 blinks	T[397] edges: 16 blocks: 1 orient: + 
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 294 05 1.145742061 0.000000000 1520 06 0.288675135 0.000000000 17041 07 0.911837521 0.000000000 95880 08 0.483572346 0.000000000 538344		
16^t_{128} (0) 2^1 2 blinks	T[401] edges: 16 blocks: 1 orient: +  T[626] edges: 16 blocks: 1 orient: - 	16^t_{129} (1) 1 blinks
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 272 05 0.000000000 0.000000000 1520 06 0.788675135 1.000000000 14245 07 0.000000000 0.000000000 88696 08 0.223713055 -0.425190699 475352	r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 372 05 0.931116293 0.000000000 3368 06 1.000000000 0.000000000 38327 07 1.702576126 0.000000000 269544 08 0.985714650 0.000000000 1714144	
T[402] edges: 16 blocks: 1 orient: +  T[403] edges: 16 blocks: 1 orient: + 	16^t_{130} (1) 2 blinks	T[403] edges: 16 blocks: 1 orient: +  T[469] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 2.000000000 0.000000000 8 04 4.000000000 0.000000000 316 05 5.098300563 0.000000000 3272 06 9.000000000 0.000000000 31795 07 12.744472668 0.000000000 245400 08 18.883117546 0.000000000 1498072	T[404] edges: 16 blocks: 1 orient: + 	

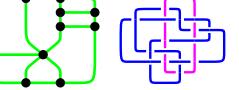
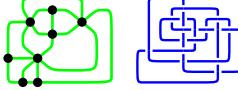
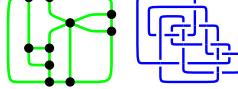
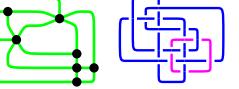
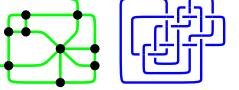
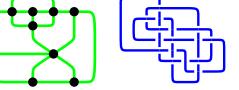
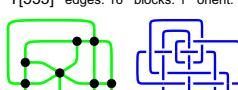
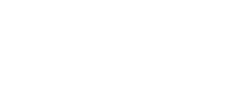
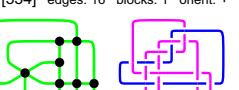
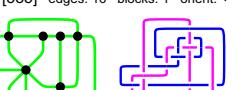
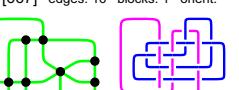
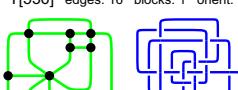
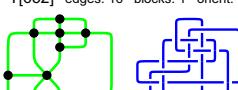
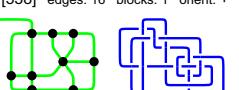
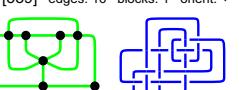
16^t_{132} (1) 1 blinks	T[410] edges: 16 blocks: 1 orient: + 	16^t_{133} (1) 2 blinks
r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 372 05 1.549150281 0.000000000 3464 06 2.000000000 0.000000000 37495 07 2.009015766 0.000000000 272792 08 1.814141775 0.000000000 1701400	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.011100716 0.255201154 788 06 1.000000000 0.000000000 9343 07 1.142664819 -0.004579267 41462 08 0.502166379 0.000000000 210668	
T[413] edges: 16 blocks: 1 orient: +  T[656] edges: 16 blocks: 1 orient: - 	16^t_{134} (1) 2 blinks	T[414] edges: 16 blocks: 1 orient: +  T[460] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 388 05 1.931116293 0.000000000 3552 06 1.000000000 0.000000000 41419 07 0.971487854 -0.075623107 292552 08 0.902453529 0.000000000 1874312		
16^t_{135} (0) 2 blinks	T[415] edges: 16 blocks: 1 orient: +  T[514] edges: 16 blocks: 1 orient: - 	16^t_{136} (1) 2 blinks
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 1.145742061 0.000000000 1676 06 0.288675135 0.000000000 19277 07 0.316028303 -0.150483293 110796 08 0.041692429 1.000000000 616772	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.638276029 0.288128758 788 06 1.000000000 0.000000000 9343 07 1.636196218 -0.034374734 41462 08 0.477779762 0.000000000 210668	
T[416] edges: 16 blocks: 1 orient: +  T[647] edges: 16 blocks: 1 orient: - 	16^t_{137} (0) 2 blinks	T[417] edges: 16 blocks: 1 orient: +  T[623] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 390 05 0.579083211 0.355558209 1920 06 0.288675135 0.000000000 27557 07 0.860731644 -0.007879161 134412 08 0.594291037 0.000000000 844132		
16^t_{138} (1) 2^1 2 blinks	T[418] edges: 16 blocks: 1 orient: +  T[456] edges: 16 blocks: 1 orient: - 	16^t_{139} (1) 2^1 2 blinks
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.765366865 1.000000000 294 05 0.000000000 0.000000000 1580 06 0.517638090 -0.916666667 17509 07 0.000000000 0.000000000 99968 08 1.381124664 0.480524408 561828	r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.000000000 0.625000000 294 05 0.000000000 0.000000000 1620 06 0.517638090 0.916666667 17757 07 0.000000000 0.000000000 104288 08 1.152173311 0.647825864 583560	
T[419] edges: 16 blocks: 1 orient: +  T[438] edges: 16 blocks: 1 orient: - 	16^t_{140} (0) 4 blinks	T[423] edges: 16 blocks: 1 orient: +  T[444] edges: 16 blocks: 1 orient: +  T[445] edges: 16 blocks: 1 orient: -  T[473] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 0.828231334 0.000000000 1736 06 0.288675135 0.000000000 19469 07 0.591962818 0.000000000 114084 08 0.297863204 0.000000000 624200	T[424] edges: 16 blocks: 1 orient: +  T[468] edges: 16 blocks: 1 orient: + 	
16^t_{141} (0) 2 blinks		

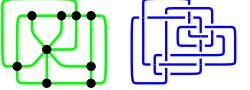
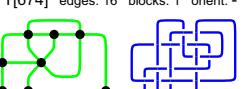
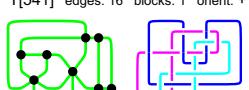
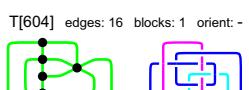
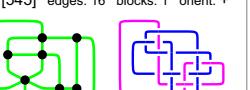
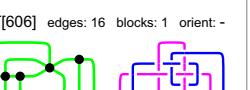
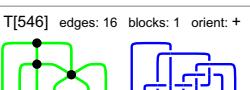
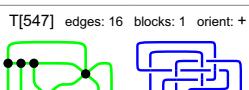
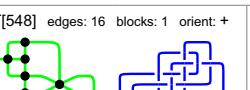
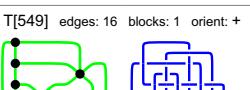
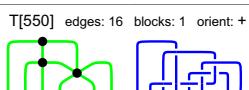
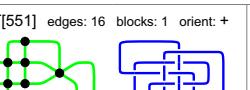
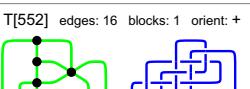
16^t_{142} (0) 2 blinks	T[425] edges: 16 blocks: 1 orient: + T[435] edges: 16 blocks: 1 orient: + 	16^t_{143} (1) 2 blinks
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 0.314488186 0.000000000 1696 06 0.288675135 0.000000000 21113 07 1.546327427 0.000000000 113232 08 0.931913875 0.000000000 663132	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.502176658 0.492268724 788 06 1.000000000 0.000000000 9343 07 1.641389916 -0.145293532 41462 08 0.389468007 0.000000000 210668	
T[426] edges: 16 blocks: 1 orient: + T[638] edges: 16 blocks: 1 orient: - 	16^t_{144} (1) 1 blinks	T[427] edges: 16 blocks: 1 orient: +
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.150923032 1.000000000 806 06 1.000000000 0.000000000 9455 07 1.252011626 0.000000000 43442 08 1.453393144 0.000000000 220512		
16^t_{145} (0) 3¹ 2 blinks	T[428] edges: 16 blocks: 1 orient: + T[492] edges: 16 blocks: 1 orient: - 	16^t_{146} (1) 2 blinks
r mod theta/pi #sts 03 0.707106781 0.500000000 4 04 0.500000000 0.750000000 278 05 0.090780348 0.500000000 1648 06 0.500000000 -0.500000000 15705 07 0.679575957 0.185948077 100324 08 0.090521482 -0.875000000 538060	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.376941013 0.000000000 752 06 1.000000000 0.000000000 8827 07 0.379778317 0.000000000 39296 08 0.056274848 1.000000000 195216	
T[429] edges: 16 blocks: 1 orient: + T[458] edges: 16 blocks: 1 orient: + 	16^t_{147} (1) 1 blinks	T[431] edges: 16 blocks: 1 orient: +
r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 436 05 1.931116293 0.000000000 3888 06 1.000000000 0.000000000 45151 07 1.054306107 0.000000000 326064 08 1.304473783 0.000000000 2038848		
16^t_{148} (1) 2 blinks	T[434] edges: 16 blocks: 1 orient: + T[451] edges: 16 blocks: 1 orient: - 	16^t_{149} (0) 4 blinks
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.584868622 0.125409201 806 06 1.000000000 0.000000000 9455 07 0.669901522 0.152437433 43442 08 0.250142300 1.000000000 220512	r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 0.314488186 0.000000000 1828 06 0.288675135 0.000000000 21553 07 0.745358881 0.081311555 126032 08 1.620357495 0.000000000 735988	
T[437] edges: 16 blocks: 1 orient: + T[449] edges: 16 blocks: 1 orient: - 	16^t_{150} (0) 2¹ 2 blinks	T[439] edges: 16 blocks: 1 orient: + T[466] edges: 16 blocks: 1 orient: -
T[464] edges: 16 blocks: 1 orient: + T[537] edges: 16 blocks: 1 orient: - 	r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 272 05 0.000000000 0.000000000 1552 06 0.211324865 0.000000000 14513 07 0.000000000 0.000000000 92196 08 0.948066526 0.559596087 496128	T[450] edges: 16 blocks: 1 orient: + T[490] edges: 16 blocks: 1 orient: -
16^t_{151} (0) 4¹ 2 blinks		
r mod theta/pi #sts 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 258 05 0.803369104 0.885183365 758 06 0.577350269 0.333333333 8873 07 0.510393508 -0.301768208 40140 08 0.646799483 0.521043542 200318		

16^t₁₅₂ (0) 2¹ 2 blinks	T[452] edges: 16 blocks: 1 orient: +  T[615] edges: 16 blocks: 1 orient: - 	16^t₁₅₃ (1) 2 blinks
r 03 0.000000000 0.000000000 8 04 0.382683432 1.000000000 564 05 0.000000000 0.000000000 4984 06 0.912870929 -0.602416382 53011 07 0.000000000 0.000000000 379056 08 1.941486277 -0.494121834 2330216	r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.584629175 0.076276322 754 06 1.000000000 0.000000000 8987 07 1.166333828 -0.067656520 39758 08 0.518051728 0.075242398 203880	
T[453] edges: 16 blocks: 1 orient: +  T[474] edges: 16 blocks: 1 orient: - 	16^t₁₅₄ (1) 2¹ 2 blinks	T[461] edges: 16 blocks: 1 orient: +  T[653] edges: 16 blocks: 1 orient: - 
r 03 0.000000000 0.000000000 4 04 1.847759065 -0.500000000 278 05 0.000000000 0.000000000 1712 06 1.414213562 0.916666667 16841 07 0.000000000 0.000000000 109772 08 1.702537743 -0.128344646 606612		
16^t₁₅₅ (2) 2 blinks	T[462] edges: 16 blocks: 1 orient: +  T[650] edges: 16 blocks: 1 orient: - 	16^t₁₅₆ (0) 2¹ 2 blinks
r 03 1.414213562 0.000000000 4 04 0.000000000 0.000000000 550 05 0.462725308 0.675632347 2532 06 2.645751311 0.060518859 35121 07 3.224446271 0.045035586 170280 08 0.330599929 0.448952228 1036092	r 03 0.000000000 0.000000000 2 04 0.923879533 -0.500000000 514 05 0.000000000 0.000000000 1214 06 0.912870929 -0.602416382 22187 07 0.000000000 0.000000000 71264 08 0.961141591 0.839203319 448196	
T[463] edges: 16 blocks: 1 orient: +  T[616] edges: 16 blocks: 1 orient: - 	16^t₁₅₇ (1) 1 blinks	T[467] edges: 16 blocks: 1 orient: + 
r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.668737080 0.000000000 764 06 1.000000000 0.000000000 8959 07 0.097615949 0.000000000 40630 08 0.262484285 0.000000000 205072		
16^t₁₅₈ (1) 1 blinks	T[470] edges: 16 blocks: 1 orient: + 	16^t₁₅₉ (2) 2 blinks
r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.432669103 0.000000000 786 06 1.000000000 0.000000000 9265 07 0.661773906 0.000000000 42696 08 1.108155353 0.000000000 221170	r 03 1.414213562 0.000000000 8 04 2.000000000 0.000000000 332 05 2.748384109 0.009128962 3376 06 2.645751311 0.060518859 33647 07 2.330227192 0.209363810 258104 08 0.832957755 0.000000000 1581288	
T[476] edges: 16 blocks: 1 orient: +  T[594] edges: 16 blocks: 1 orient: - 	16^t₁₆₀ (0) 4¹ 2 blinks	T[478] edges: 16 blocks: 1 orient: +  T[700] edges: 16 blocks: 1 orient: - 
r 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 258 05 0.431163969 0.145266284 820 06 1.154700538 0.000000000 9879 07 1.450488462 -0.257276363 44160 08 0.968531149 -0.752435389 237360		
16^t₁₆₁ (0) 2¹ 2 blinks	T[479] edges: 16 blocks: 1 orient: +  T[654] edges: 16 blocks: 1 orient: - 	
r 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 272 05 0.000000000 0.000000000 1580 06 0.912870929 0.602416382 14981 07 0.000000000 0.000000000 95088 08 0.219946253 -0.115639345 520328		

16^t₁₆₂ (1) 2¹ 2 blinks	T[480] edges: 16 blocks: 1 orient: +  T[581] edges: 16 blocks: 1 orient: - 	16^t₁₆₃ (1) 2 blinks
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.000000000 0.625000000 294 05 0.000000000 0.000000000 1672 06 1.000000000 0.500000000 18061 07 0.000000000 0.000000000 109244 08 0.429914705 -0.148791953 608096	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.971605438 -0.172839744 794 06 1.000000000 0.000000000 9203 07 0.526659974 0.236896791 43370 08 0.848407729 0.935181383 219968	
T[481] edges: 16 blocks: 1 orient: +  T[557] edges: 16 blocks: 1 orient: - 	16^t₁₆₄ (0) 2¹ 2 blinks	T[482] edges: 16 blocks: 1 orient: +  T[678] edges: 16 blocks: 1 orient: - 
16^t₁₆₅ (1) 1 blinks	T[483] edges: 16 blocks: 1 orient: + 	16^t₁₆₆ (2) 1 blinks
r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 312 05 0.313082304 0.000000000 3272 06 0.000000000 0.000000000 31355 07 0.594503545 0.000000000 244600 08 0.147186258 0.000000000 1496840	r mod theta/pi #sts 03 1.414213562 0.000000000 16 04 2.000000000 0.000000000 464 05 3.810128726 0.000000000 7216 06 3.464101615 0.000000000 84081 07 6.964618875 0.000000000 748400 08 7.147068582 0.000000000 5276720	
T[485] edges: 16 blocks: 1 orient: +  T[486] edges: 16 blocks: 1 orient: + 	16^t₁₆₇ (1) 2¹ 2 blinks	T[504] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.000000000 -0.625000000 294 05 0.000000000 0.000000000 1560 06 1.000000000 -0.500000000 17273 07 0.000000000 0.000000000 99552 08 0.429914705 0.976208047 556716		
16^t₁₆₈ (0) 4¹ 2 blinks	T[487] edges: 16 blocks: 1 orient: +  T[639] edges: 16 blocks: 1 orient: - 	16^t₁₆₉ (1) 2¹ 2 blinks
r mod theta/pi #sts 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 258 05 0.248267420 0.443556883 748 06 1.154700538 0.000000000 8863 07 0.818711741 -0.396702804 38852 08 0.674330862 -0.954595628 196408	r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.847759065 -0.500000000 278 05 0.000000000 0.000000000 1584 06 1.931851653 0.916666667 15281 07 0.000000000 0.000000000 97644 08 2.580681796 -0.278798298 519252	
T[488] edges: 16 blocks: 1 orient: +  T[640] edges: 16 blocks: 1 orient: - 	16^t₁₇₀ (1) 2 blinks	T[489] edges: 16 blocks: 1 orient: +  T[508] edges: 16 blocks: 1 orient: + 
16^t₁₇₁ (0) 2¹ 2 blinks	T[491] edges: 16 blocks: 1 orient: +  T[641] edges: 16 blocks: 1 orient: - 	
r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 272 05 0.000000000 0.000000000 1600 06 0.788675135 1.000000000 15441 07 0.000000000 0.000000000 95196 08 0.436817768 -0.248769717 528648		

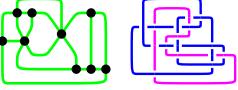
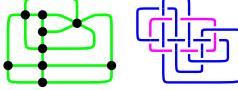
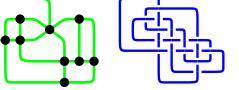
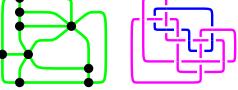
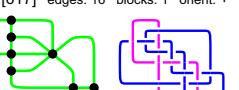
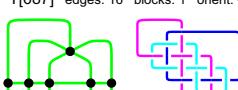
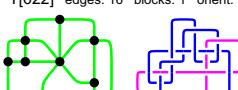
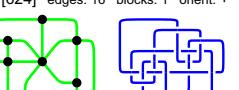
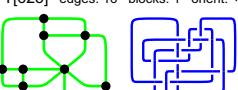
16^t₁₇₂ (0) 2¹ 2 blinks	T[496] edges: 16 blocks: 1 orient: +  T[705] edges: 16 blocks: 1 orient: - 	16^t₁₇₃ (0) 4¹ 2 blinks
r 03 0.000000000 0.000000000 2 04 0.923879533 0.500000000 514 05 0.000000000 0.000000000 1316 06 0.788675135 1.000000000 24073 07 0.000000000 0.000000000 78428 08 0.697476770 0.157644456 509114	r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.662252010 -0.718703773 800 06 0.577350269 -0.333333333 9475 07 1.123209959 -0.009652746 42844 08 0.364943633 0.601878149 220552	
T[497] edges: 16 blocks: 1 orient: +  T[645] edges: 16 blocks: 1 orient: - 	16^t₁₇₄ (1) 2 blinks	T[499] edges: 16 blocks: 1 orient: +  T[507] edges: 16 blocks: 1 orient: - 
r 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 388 05 1.706302846 0.068290739 3528 06 1.000000000 0.000000000 39891 07 0.552848553 -0.058217234 283832 08 0.327993849 1.000000000 1789720		
16^t₁₇₅ (1) 1 blinks	T[505] edges: 16 blocks: 1 orient: + 	16^t₁₇₆ (0) 2¹ 2 blinks
r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.005024999 1.000000000 770 06 0.000000000 0.000000000 9029 07 0.180176552 1.000000000 41120 08 1.489973071 0.000000000 208710	r 03 0.000000000 0.000000000 2 04 0.923879533 0.500000000 514 05 0.000000000 0.000000000 1244 06 0.211324865 0.000000000 22849 07 0.000000000 0.000000000 73136 08 0.186819872 -0.252455287 465218	
T[506] edges: 16 blocks: 1 orient: +  T[619] edges: 16 blocks: 1 orient: - 	16^t₁₇₇ (1) 1 blinks	T[515] edges: 16 blocks: 1 orient: + 
r 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.005024999 1.000000000 766 06 1.000000000 0.000000000 9069 07 1.505173648 0.000000000 40330 08 0.571142150 0.000000000 204954		
16^t₁₇₈ (0) 2¹ 2 blinks	T[524] edges: 16 blocks: 1 orient: +  T[566] edges: 16 blocks: 1 orient: - 	16^t₁₇₉ (0) 2 blinks
r 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 272 05 0.000000000 0.000000000 1604 06 0.788675135 1.000000000 14789 07 0.000000000 0.000000000 97180 08 0.238728602 0.525241290 517840	r 03 0.707106781 0.000000000 8 04 0.500000000 0.000000000 388 05 0.612441223 -0.335704144 3672 06 0.288675135 0.000000000 38859 07 0.134555071 -0.112054174 291864 08 0.420178658 1.000000000 1782856	
T[525] edges: 16 blocks: 1 orient: +  T[569] edges: 16 blocks: 1 orient: - 	16^t₁₈₀ (1) 2 blinks	T[526] edges: 16 blocks: 1 orient: +  T[589] edges: 16 blocks: 1 orient: - 
r 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.473712872 0.603211327 782 06 1.000000000 0.333333333 9071 07 1.739509707 0.297333112 42014 08 0.335644138 0.000000000 210136		
16^t₁₈₁ (0) 4¹ 2 blinks	T[527] edges: 16 blocks: 1 orient: +  T[668] edges: 16 blocks: 1 orient: - 	
r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.561633512 -0.663492147 800 06 0.577350269 -0.333333333 9475 07 1.376653831 -0.000034175 42844 08 0.600752576 -0.612730690 220552		

16^t₁₈₂ (0) 2 blinks	T[529] edges: 16 blocks: 1 orient: +  T[707] edges: 16 blocks: 1 orient: - 	16^t₁₈₃ (0) 2¹ 2 blinks
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 526 05 0.411403453 0.032770866 2556 06 0.288675135 0.000000000 31201 07 1.219571694 0.525321757 165684 08 0.113286266 1.000000000 956008	r mod theta/pi #sts 03 0.000000000 0.000000000 2 04 0.923879533 0.500000000 514 05 0.000000000 0.000000000 1274 06 0.211324865 0.000000000 23303 07 0.000000000 0.000000000 75956 08 0.176976960 -0.224564581 491264	
T[530] edges: 16 blocks: 1 orient: +  T[676] edges: 16 blocks: 1 orient: - 	16^t₁₈₄ (0) 2 blinks	T[531] edges: 16 blocks: 1 orient: +  T[568] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 0.974323378 -0.100305142 1728 06 0.288675135 0.000000000 19549 07 0.241631035 -0.042710572 115728 08 0.553759261 1.000000000 644960		
16^t₁₈₅ (0) 4¹ 2 blinks	T[532] edges: 16 blocks: 1 orient: +  T[673] edges: 16 blocks: 1 orient: - 	16^t₁₈₆ (1) 1 blinks
r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.917970627 0.451482212 858 06 0.577350269 1.000000000 10609 07 0.687015449 -0.314468119 47696 08 0.372764780 -0.024114904 268906	r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.623058987 1.000000000 772 06 0.000000000 0.000000000 9115 07 1.383785390 0.000000000 41180 08 0.571142150 0.000000000 210064	
T[533] edges: 16 blocks: 1 orient: +  T[674] edges: 16 blocks: 1 orient: - 	16^t₁₈₇ (0) 2 blinks	T[534] edges: 16 blocks: 1 orient: +  T[597] edges: 16 blocks: 1 orient: - 
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 278 05 0.316589761 -0.402890266 1648 06 0.288675135 0.000000000 16497 07 1.178124905 0.035768972 104568 08 1.108290663 0.000000000 573124		
16^t₁₈₈ (0) 2 blinks	T[535] edges: 16 blocks: 1 orient: +  T[667] edges: 16 blocks: 1 orient: - 	16^t₁₈₉ (0) 4¹ 2 blinks
r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 268 05 0.575046898 -0.493748823 1672 06 0.288675135 0.000000000 14957 07 0.519506465 -0.923693567 100056 08 0.655614571 1.000000000 537648	r mod theta/pi #sts 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.243442455 -0.847969631 830 06 0.577350269 -0.333333333 9929 07 0.968360012 -0.263149643 45544 08 1.262980703 0.536710384 243514	
T[536] edges: 16 blocks: 1 orient: +  T[652] edges: 16 blocks: 1 orient: - 	16^t₁₉₀ (1) 1 blinks	T[538] edges: 16 blocks: 1 orient: +  T[539] edges: 16 blocks: 1 orient: + 
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.532889044 1.000000000 788 06 1.000000000 0.000000000 9379 07 1.759530938 0.000000000 42478 08 2.252383017 0.000000000 223316		
16^t₁₉₁ (1) 1 blinks		
r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.557280900 0.000000000 766 06 1.000000000 0.000000000 9069 07 2.015562763 0.000000000 40330 08 2.301156253 0.000000000 204954		

16^t₁₉₂ (0) 4¹ 2 blinks	T[540] edges: 16 blocks: 1 orient: +  T[674] edges: 16 blocks: 1 orient: - 	16^t₁₉₃ (0) 2 blinks
r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.418472500 -0.891324252 788 06 0.577350269 -0.333333333 9343 07 1.586988139 -0.018168495 41462 08 0.139074580 -0.946505839 210668	r 03 0.707106781 0.000000000 8 04 0.500000000 0.000000000 332 05 0.133703646 0.629030240 3472 06 0.288675135 0.000000000 34607 07 0.415539534 0.165281960 265784 08 0.268264961 0.000000000 1629280	
T[541] edges: 16 blocks: 1 orient: +  T[604] edges: 16 blocks: 1 orient: - 	16^t₁₉₄ (0) 2¹ 2 blinks	T[545] edges: 16 blocks: 1 orient: +  T[606] edges: 16 blocks: 1 orient: - 
r 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 270 05 0.000000000 0.000000000 1584 06 0.912870929 -0.602416382 14053 07 0.000000000 0.000000000 93824 08 0.280281529 -0.895804502 490448		
16^t₁₉₅ (1) 2 blinks	T[546] edges: 16 blocks: 1 orient: +  T[556] edges: 16 blocks: 1 orient: - 	16^t₁₉₆ (0) 4¹ 2 blinks
r 03 1.000000000 0.250000000 2 04 0.707106781 0.375000000 258 05 0.997927164 -0.925509765 806 06 0.577350269 -0.333333333 9455 07 0.877688052 -0.223435790 43442 08 0.325894526 -0.536184428 220512		
T[547] edges: 16 blocks: 1 orient: +  T[587] edges: 16 blocks: 1 orient: - 	16^t₁₉₇ (1) 2 blinks	T[548] edges: 16 blocks: 1 orient: +  T[590] edges: 16 blocks: 1 orient: - 
r 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 1.001564212 0.601518851 776 06 1.000000000 0.333333333 9025 07 1.161601388 0.326716864 41168 08 0.914287901 0.000000000 205034		
16^t₁₉₈ (1) 2 blinks	T[549] edges: 16 blocks: 1 orient: +  T[558] edges: 16 blocks: 1 orient: - 	16^t₁₉₉ (0) 4¹ 2 blinks
r 03 1.000000000 0.250000000 2 04 0.707106781 0.875000000 258 05 0.436188419 -0.828516650 788 06 0.577350269 -0.333333333 9157 07 0.500337949 0.205351930 42524 08 0.378449149 -0.283149103 214934		
T[550] edges: 16 blocks: 1 orient: +  T[560] edges: 16 blocks: 1 orient: - 	16^t₂₀₀ (1) 1 blinks	T[551] edges: 16 blocks: 1 orient: + 
r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.814635114 0.000000000 798 06 1.000000000 0.000000000 9255 07 0.278856274 0.000000000 43684 08 0.519261645 1.000000000 222448		
16^t₂₀₁ (1) 2 blinks	T[552] edges: 16 blocks: 1 orient: +  T[562] edges: 16 blocks: 1 orient: - 	
r 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.604292940 0.574572400 782 06 1.000000000 0.333333333 9071 07 0.544453302 0.260580426 42014 08 1.011445388 0.547931339 210136		

16^t₂₀₂ (1) 1 blinks	T[553] edges: 16 blocks: 1 orient: +	16^t₂₀₃ (1) 2 blinks
<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 8 04 1.000000000 0.000000000 316 05 0.931116293 0.000000000 3368 06 1.000000000 0.000000000 33747 07 0.101778430 0.000000000 258120 08 0.975613382 0.000000000 1600864</pre>		<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.467110956 0.000000000 844 06 1.000000000 0.000000000 10005 07 0.657824834 0.000000000 47008 08 0.632108694 0.000000000 249634</pre>
T[554] edges: 16 blocks: 1 orient: +	16^t₂₀₄ (0) 2 blinks	T[555] edges: 16 blocks: 1 orient: +
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 0.772116421 -0.034475362 1596 06 0.288675135 0.000000000 14273 07 0.726202954 0.177220485 95160 08 0.949777995 0.000000000 499244</pre>		
T[598] edges: 16 blocks: 1 orient: +	T[578] edges: 16 blocks: 1 orient: -	
16^t₂₀₅ (0) 4¹ 2 blinks	T[559] edges: 16 blocks: 1 orient: +	16^t₂₀₆ (1) 1 blinks
<pre>r mod theta/pi #sts 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 258 05 0.768856360 0.379820483 796 06 1.154700538 0.000000000 9309 07 0.723356203 -0.373437575 43052 08 1.057301384 0.719904001 219726</pre>		<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.532889044 1.000000000 842 06 0.000000000 0.000000000 9995 07 1.138332717 0.000000000 46700 08 2.046322257 0.000000000 248268</pre>
T[561] edges: 16 blocks: 1 orient: +	16^t₂₀₇ (0) 1 blinks	T[563] edges: 16 blocks: 1 orient: +
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 0.314488186 0.000000000 1596 06 0.288675135 0.000000000 14273 07 0.066036481 0.000000000 95160 08 2.385724359 0.000000000 499244</pre>		
16^t₂₀₈ (1) 1 blinks	T[564] edges: 16 blocks: 1 orient: +	16^t₂₀₉ (1) 2 blinks
<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 1.467110956 0.000000000 786 06 2.000000000 0.000000000 9265 07 1.608358272 0.000000000 42696 08 0.610531993 1.000000000 221170</pre>		<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.232021469 -0.204052176 812 06 1.000000000 0.000000000 9469 07 1.071968189 0.178245971 44908 08 0.587379110 -0.066222052 232234</pre>
T[565] edges: 16 blocks: 1 orient: +	16^t₂₁₀ (0) 2¹ 2 blinks	T[567] edges: 16 blocks: 1 orient: +
<pre>r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 278 05 0.000000000 0.000000000 1612 06 0.211324865 0.000000000 15901 07 0.000000000 0.000000000 99488 08 0.664710689 -0.504361227 541164</pre>		
T[580] edges: 16 blocks: 1 orient: -	T[593] edges: 16 blocks: 1 orient: -	
16^t₂₁₁ (0) 4¹ 2 blinks	T[570] edges: 16 blocks: 1 orient: +	T[583] edges: 16 blocks: 1 orient: -
<pre>r mod theta/pi #sts 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 258 05 0.998661554 0.773528081 796 06 0.577350269 0.333333333 9309 07 0.072104553 0.024897959 43052 08 0.611913210 0.499917084 219726</pre>		

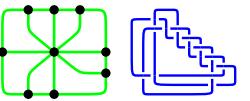
16^t₂₁₂ (0) 4¹ 2 blinks	T[572] edges: 16 blocks: 1 orient: + T[591] edges: 16 blocks: 1 orient: - 	16^t₂₁₃ (0) 2 blinks
r 03 1.000000000 mod 0.250000000 #sts 2 04 0.707106781 -0.875000000 258 05 0.375300480 0.246551954 796 06 0.577350269 0.333333333 9309 07 1.304019215 0.194543997 43052 08 0.973551736 -0.328589593 219726	r 03 0.707106781 0.000000000 mod 0.000000000 #sts 4 04 0.500000000 0.000000000 270 05 0.828810492 -0.200682317 1596 06 0.288675135 0.000000000 14273 07 0.879450049 -0.003383512 95160 08 0.499366312 1.000000000 499244	
T[573] edges: 16 blocks: 1 orient: + T[582] edges: 16 blocks: 1 orient: - 	16^t₂₁₄ (0) 4¹ 2 blinks	T[574] edges: 16 blocks: 1 orient: + T[595] edges: 16 blocks: 1 orient: -
r 03 1.000000000 mod 0.250000000 #sts 2 04 0.707106781 0.375000000 258 05 0.580664741 0.214289059 776 06 0.577350269 0.333333333 9025 07 0.209714042 0.555846961 41168 08 0.284426929 -0.532337004 205034		
16^t₂₁₅ (1) 1 blinks	T[575] edges: 16 blocks: 1 orient: + T[577] edges: 16 blocks: 1 orient: + T[628] edges: 16 blocks: 1 orient: - 	16^t₂₁₆ (0) 4¹ 2 blinks
r 03 1.000000000 mod 0.000000000 #sts 2 04 0.000000000 0.000000000 258 05 1.175314889 0.000000000 764 06 1.000000000 0.000000000 8959 07 0.255077445 0.000000000 40630 08 0.436867076 1.000000000 205072	r 03 1.000000000 mod 0.250000000 #sts 2 04 0.707106781 0.375000000 258 05 0.855640170 -0.713550882 788 06 0.577350269 -0.333333333 9343 07 1.028696710 -0.191662952 41462 08 0.832370526 -0.532948820 210668	
T[577] edges: 16 blocks: 1 orient: + T[628] edges: 16 blocks: 1 orient: - 	16^t₂₁₇ (0) 2 blinks	T[585] edges: 16 blocks: 1 orient: + T[636] edges: 16 blocks: 1 orient: -
r 03 0.707106781 0.000000000 mod 0.000000000 #sts 4 04 0.500000000 0.000000000 278 05 0.293065211 0.034694683 1696 06 0.288675135 0.000000000 17097 07 1.335663128 -0.198627661 106964 08 0.716274876 0.000000000 591540		
16^t₂₁₈ (0) 2¹ 2 blinks	T[586] edges: 16 blocks: 1 orient: + T[592] edges: 16 blocks: 1 orient: - 	16^t₂₁₉ (1) 1 blinks
r 03 0.000000000 mod 0.000000000 #sts 4 04 0.382683432 1.000000000 270 05 0.000000000 0.000000000 1704 06 0.788675135 1.000000000 16445 07 0.000000000 0.000000000 106020 08 0.418943492 -0.357016649 588128	r 03 1.000000000 mod 0.000000000 #sts 2 04 1.000000000 0.000000000 258 05 0.175314889 0.000000000 788 06 1.000000000 0.000000000 9379 07 0.414704699 0.000000000 42478 08 0.757000375 0.000000000 223316	
T[588] edges: 16 blocks: 1 orient: + T[592] edges: 16 blocks: 1 orient: - 	16^t₂₂₀ (1) 1 blinks	T[596] edges: 16 blocks: 1 orient: + T[599] edges: 16 blocks: 1 orient: +
r 03 1.000000000 mod 0.000000000 #sts 8 04 1.000000000 0.000000000 312 05 0.403252248 0.000000000 3544 06 1.000000000 0.000000000 34079 07 1.404699852 0.000000000 273088 08 3.897402896 0.000000000 1677784		
16^t₂₂₁ (0) 4¹ 2 blinks	T[599] edges: 16 blocks: 1 orient: + T[605] edges: 16 blocks: 1 orient: - 	
r 03 1.000000000 mod -0.250000000 #sts 2 04 0.707106781 -0.375000000 258 05 0.733601725 -0.922256585 788 06 0.577350269 0.333333333 9157 07 0.741581851 -0.030376675 42524 08 1.026145221 -0.504921996 214934		

16^t₂₂₂ (0) 1 blinks	T[600] edges: 16 blocks: 1 orient: +	16^t₂₂₃ (0) 1 blinks
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 278 05 1.220696176 0.000000000 1648 06 0.288675135 0.000000000 16609 07 0.230182124 0.000000000 102816 08 0.247335843 0.000000000 566388</pre>		<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 278 05 0.706953028 0.000000000 1628 06 0.288675135 0.000000000 16413 07 1.519522895 0.000000000 101824 08 1.470376592 0.000000000 561620</pre>
T[603] edges: 16 blocks: 1 orient: +	16^t₂₂₄ (1) 1 blinks	T[607] edges: 16 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 0.321212923 0.000000000 776 06 1.000000000 0.000000000 9025 07 0.697406702 0.000000000 41168 08 0.041989498 1.000000000 205034</pre>	
16^t₂₂₅ (1) 2 ¹ 2 blinks	T[613] edges: 16 blocks: 1 orient: +	16^t₂₂₆ (2) 2 blinks
<pre>r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 1.847759065 -0.500000000 278 05 0.000000000 0.000000000 1648 06 1.931851653 -0.916666667 15705 07 0.000000000 0.000000000 100324 08 1.094069091 -0.076516405 538060</pre>		<pre>r mod theta/pi #sts 03 1.414213562 0.000000000 8 04 2.000000000 0.000000000 324 05 3.383193431 0.007415693 3320 06 1.732050808 0.000000000 32159 07 3.384764794 -0.146530015 247464 08 4.265843498 0.000000000 1507480</pre>
T[614] edges: 16 blocks: 1 orient: +	16^t₂₂₇ (0) 2 ¹ 2 blinks	T[617] edges: 16 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 0.000000000 0.000000000 4 04 0.382683432 1.000000000 278 05 0.000000000 0.000000000 1612 06 0.788675135 1.000000000 15901 07 0.000000000 0.000000000 99488 08 0.460078269 -0.377949177 541164</pre>	
T[687] edges: 16 blocks: 1 orient: -		T[686] edges: 16 blocks: 1 orient: -
16^t₂₂₈ (0) 4 ¹ 2 blinks	T[618] edges: 16 blocks: 1 orient: +	16^t₂₂₉ (0) 3 ¹ 2 blinks
<pre>r mod theta/pi #sts 03 1.000000000 -0.250000000 2 04 0.707106781 -0.875000000 258 05 0.836419527 0.304238294 796 06 1.154700538 0.000000000 9309 07 0.599234670 -0.380696044 43052 08 0.576925399 0.968664536 219726</pre>		<pre>r mod theta/pi #sts 03 0.707106781 -0.500000000 4 04 0.500000000 -0.750000000 294 05 0.619195221 0.500000000 1404 06 0.500000000 0.500000000 14731 07 0.781997843 -0.227299372 68584 08 0.407546818 0.875000000 357372</pre>
T[622] edges: 16 blocks: 1 orient: +	16^t₂₃₀ (1) 1 blinks	T[624] edges: 16 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 1.411382866 0.000000000 668 06 2.000000000 0.000000000 8287 07 2.208432275 0.000000000 27596 08 1.070708874 0.000000000 139918</pre>	
16^t₂₃₁ (1) 2 blinks	T[625] edges: 16 blocks: 1 orient: +	
<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 1.228262757 -0.036036510 676 06 2.000000000 0.000000000 8367 07 1.714302807 0.135162734 28368 08 0.992040596 -0.960975007 144922</pre>		T[681] edges: 16 blocks: 1 orient: -

16^t₂₃₂ (1) 1 blinks	T[630] edges: 16 blocks: 1 orient: +	16^t₂₃₃ (0) 2 blinks
<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 1.000000000 0.000000000 258 05 1.501552810 0.000000000 668 06 2.000000000 0.000000000 8287 07 2.137108213 0.000000000 27596 08 1.688024605 0.000000000 139918</pre>		<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 326 05 0.706953028 0.000000000 1420 06 0.288675135 0.000000000 17019 07 0.472161455 0.000000000 72552 08 0.573693534 0.000000000 401400</pre>
T[631] edges: 16 blocks: 1 orient: +	16^t₂₃₄ (0) 1 blinks	T[644] edges: 16 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 1.220696176 0.000000000 1356 06 0.288675135 0.000000000 12195 07 1.348026810 0.000000000 62312 08 0.431775422 1.000000000 303900</pre>	
16^t₂₃₅ (2) 1 blinks	T[646] edges: 16 blocks: 1 orient: +	16^t₂₃₆ (0) 2 blinks
<pre>r mod theta/pi #sts 03 1.414213562 0.000000000 16 04 2.000000000 0.000000000 456 05 3.175107272 0.000000000 6288 06 3.464101615 0.000000000 63611 07 4.155214795 0.000000000 493632 08 5.507548956 0.000000000 3069664</pre>		<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 0.706953028 0.000000000 1400 06 0.288675135 0.000000000 12743 07 0.496315783 0.261384211 66636 08 0.573693534 0.000000000 330684</pre>
T[648] edges: 16 blocks: 1 orient: +	16^t₂₃₇ (0) 2 blinks	T[665] edges: 16 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 0.573497666 0.176511736 1392 06 0.288675135 0.000000000 12711 07 1.136703854 -0.120668998 65704 08 0.433044985 0.000000000 326788</pre>	
T[670] edges: 16 blocks: 1 orient: -	T[701] edges: 16 blocks: 1 orient: -	
16^t₂₃₈ (0) 1 blinks	T[669] edges: 16 blocks: 1 orient: +	16^t₂₃₉ (0) 1 blinks
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 0.389442301 0.000000000 1400 06 0.288675135 0.000000000 12743 07 1.166146568 0.000000000 66636 08 0.913249166 0.000000000 330684</pre>		<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 0.903185449 0.000000000 1356 06 0.288675135 0.000000000 12195 07 1.747119563 0.000000000 62312 08 0.509968231 0.000000000 303900</pre>
T[675] edges: 16 blocks: 1 orient: +	16^t₂₄₀ (1) 1 blinks	T[683] edges: 16 blocks: 1 orient: +
	<pre>r mod theta/pi #sts 03 1.000000000 0.000000000 2 04 0.000000000 0.000000000 258 05 0.119586799 0.000000000 690 06 1.000000000 0.000000000 8589 07 1.128593258 0.000000000 29288 08 0.759092416 0.000000000 153308</pre>	
16^t₂₄₁ (0) 1 blinks	T[699] edges: 16 blocks: 1 orient: +	
<pre>r mod theta/pi #sts 03 0.707106781 0.000000000 4 04 0.500000000 0.000000000 270 05 1.099417870 0.000000000 1188 06 0.288675135 0.000000000 10965 07 0.591774747 0.000000000 44608 08 0.047159195 1.000000000 213172</pre>		

16 ^t ₂₄₂ (1) 1 blinks			
r	mod	theta/pi	#sts
03	1.000000000	0.000000000	2
04	0.000000000	0.000000000	258
05	0.772062641	0.000000000	516
06	2.000000000	0.000000000	7079
07	3.001363833	0.000000000	14152
08	0.410388418	1.000000000	80202

T[708] edges: 16 blocks: 1 orient: +



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