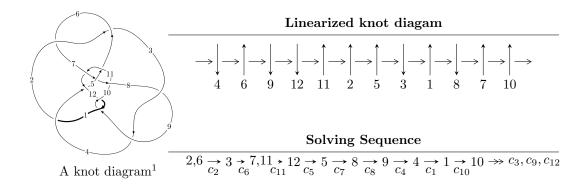
$12a_{0935} (K12a_{0935})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 7.81900 \times 10^{985} u^{183} - 7.88716 \times 10^{985} u^{182} + \dots + 6.01907 \times 10^{985} b + 2.13399 \times 10^{986}, \\ &\quad 4.35696 \times 10^{986} u^{183} + 3.78145 \times 10^{985} u^{182} + \dots + 6.01907 \times 10^{985} a + 4.67662 \times 10^{986}, \ u^{184} + u^{183} + \dots + 2.55091 \times 10^{39} u^{49} + 1.08770 \times 10^{39} u^{48} + \dots + 2.55091 \times 10^{37} b - 7.03667 \times 10^{39}, \\ &\quad 1.73292 \times 10^{39} u^{49} + 8.72064 \times 10^{38} u^{48} + \dots + 2.55091 \times 10^{37} a - 5.63180 \times 10^{39}, \ u^{50} + 11u^{48} + \dots - 3u - 10^{39} u^{49} + 1.08770 \times 10^{39} u^{49} + 1.08770 \times 10^{39} u^{49} + 1.08770 \times 10^{39} u^{48} + \dots + 2.55091 \times 10^{37} a - 5.63180 \times 10^{39}, \ u^{50} + 11u^{48} + \dots - 3u - 10^{39} u^{49} + 1.0870 \times 10^{39} u^{48} + \dots + 2.55091 \times 10^{37} a - 5.63180 \times 10^{39}, \ u^{50} + 11u^{48} + \dots - 3u - 10^{39} u^{49} + 1.0870 \times 10^{39} u^{49} + 1.0870 \times 10^{39} u^{49} + 1.0870 \times 10^{39} u^{48} + \dots + 2.55091 \times 10^{37} a - 5.63180 \times 10^{39}, \ u^{50} + 11u^{48} + \dots + 3u - 10^{39} u^{49} + 1.0870 \times 10^{39} u^{49} + 1.0870 \times$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 234 representations.

¹The image of knot diagram is generated by the software "**Draw programme**" developed by Andrew Bartholomew(http://www.layer8.co.uk/maths/draw/index.htm#Running-draw), where we modified some parts for our purpose(https://github.com/CATsTAILs/LinksPainter).

 $^{^2}$ All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I.
$$I_1^u = \langle 7.82 \times 10^{985} u^{183} - 7.89 \times 10^{985} u^{182} + \dots + 6.02 \times 10^{985} b + 2.13 \times 10^{986}, \ 4.36 \times 10^{986} u^{183} + 3.78 \times 10^{985} u^{182} + \dots + 6.02 \times 10^{985} a + 4.68 \times 10^{986}, \ u^{184} + u^{183} + \dots + 2u - 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -7.23859u^{183} - 0.628245u^{182} + \dots + 31.4824u - 7.76968 \\ -1.29904u^{183} + 1.31036u^{182} + \dots + 10.0813u - 3.54539 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -10.0540u^{183} - 0.950916u^{182} + \dots + 45.4239u - 11.7706 \\ -4.11442u^{183} + 0.987693u^{182} + \dots + 24.0228u - 7.54633 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.794746u^{183} - 1.61012u^{182} + \dots - 35.6727u + 4.52522 \\ 0.0710340u^{183} - 0.574077u^{182} + \dots - 12.3695u + 0.280865 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 9.63510u^{183} + 10.4622u^{182} + \dots - 24.9001u - 3.41375 \\ 5.88424u^{183} + 5.16103u^{182} + \dots - 14.7093u - 0.478162 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 8.94054u^{183} + 10.3815u^{182} + \dots - 14.7093u - 0.478162 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -4.44465u^{183} - 7.51045u^{182} + \dots - 12.7870u - 1.09202 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -4.4465u^{183} - 7.51045u^{182} + \dots + 5.62935u + 5.70928 \\ -3.45874u^{183} - 3.75085u^{182} + \dots + 9.20127u + 1.27427 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -21.0857u^{183} - 26.4945u^{182} + \dots - 0.618143u + 16.9348 \\ -12.0198u^{183} - 12.1542u^{182} + \dots + 11.9164u + 3.30388 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 24.0006u^{183} + 7.84552u^{182} + \dots - 102.839u + 29.2947 \\ 6.94557u^{183} - 0.574113u^{182} + \dots - 38.7545u + 13.4882 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-23.1352u^{183} 21.1220u^{182} + \cdots + 42.3192u + 9.71975$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{184} - 4u^{183} + \dots - 71040737947u + 8873630559$
c_2, c_6	$u^{184} - u^{183} + \dots - 2u - 1$
c_3, c_8	$u^{184} + u^{183} + \dots - 123190029u + 17977599$
c_4	$u^{184} + 3u^{183} + \dots - 822455u - 157289$
c_5	$u^{184} + u^{183} + \dots - 22u - 3$
c_7	$u^{184} + 17u^{183} + \dots + 108u + 49$
c_9, c_{12}	$u^{184} - 14u^{183} + \dots - 244560u + 39592$
c_{10}	$u^{184} - 13u^{183} + \dots + 4409u - 1081$
c_{11}	$u^{184} - 5u^{183} + \dots - 57u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{184} - 48y^{183} + \dots - 2.97 \times 10^{21}y + 7.87 \times 10^{19}$
c_2, c_6	$y^{184} + 95y^{183} + \dots + 52y + 1$
c_3, c_8	$y^{184} - 145y^{183} + \dots - 6975999890891991y + 323194065804801$
C ₄	$y^{184} + 57y^{183} + \dots + 1925713891789y + 24739829521$
<i>C</i> ₅	$y^{184} - 11y^{183} + \dots - 1072y + 9$
	$y^{184} - 9y^{183} + \dots - 210604y + 2401$
c_9,c_{12}	$y^{184} + 120y^{183} + \dots + 108376113824y + 1567526464$
c_{10}	$y^{184} + 19y^{183} + \dots + 407531937y + 1168561$
c_{11}	$y^{184} - 31y^{183} + \dots - 179y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.328666 + 0.923922I		
a = -0.337659 - 0.238911I	-4.23227 - 3.34748I	0
b = -0.170979 - 1.240740I		
u = 0.328666 - 0.923922I		
a = -0.337659 + 0.238911I	-4.23227 + 3.34748I	0
b = -0.170979 + 1.240740I		
u = 0.281174 + 0.982315I		
a = 0.359990 + 0.210848I	-5.73999 - 1.00560I	0
b = 1.29550 + 1.10202I		
u = 0.281174 - 0.982315I		
a = 0.359990 - 0.210848I	-5.73999 + 1.00560I	0
b = 1.29550 - 1.10202I		
u = 0.932460 + 0.245380I		
a = 0.837280 - 1.035300I	1.61224 - 8.91293I	0
b = 0.0984925 + 0.0643776I		
u = 0.932460 - 0.245380I		
a = 0.837280 + 1.035300I	1.61224 + 8.91293I	0
b = 0.0984925 - 0.0643776I		
u = 0.954235 + 0.402904I		
a = -0.620648 + 1.058490I	4.31278 - 4.19799I	0
b = -0.0242627 - 0.0856250I		
u = 0.954235 - 0.402904I		
a = -0.620648 - 1.058490I	4.31278 + 4.19799I	0
b = -0.0242627 + 0.0856250I		
u = 1.017440 + 0.228660I		
a = 0.401725 + 0.757657I	1.02142 + 3.54450I	0
b = 0.317209 + 0.836250I		
u = 1.017440 - 0.228660I		
a = 0.401725 - 0.757657I	1.02142 - 3.54450I	0
b = 0.317209 - 0.836250I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.742133 + 0.569313I		
a = 0.882782 + 0.587740I	-0.90654 - 2.78152I	0
b = 0.027380 + 0.526989I		
u = -0.742133 - 0.569313I		
a = 0.882782 - 0.587740I	-0.90654 + 2.78152I	0
b = 0.027380 - 0.526989I		
u = -0.395282 + 0.997311I		
a = 0.914452 + 0.863382I	-2.21984 - 0.05198I	0
b = 1.63177 + 0.10048I		
u = -0.395282 - 0.997311I		
a = 0.914452 - 0.863382I	-2.21984 + 0.05198I	0
b = 1.63177 - 0.10048I		
u = -0.516582 + 0.945564I		
a = 0.49283 - 1.74278I	1.36616 - 1.84748I	0
b = 0.82041 - 1.17844I		
u = -0.516582 - 0.945564I		
a = 0.49283 + 1.74278I	1.36616 + 1.84748I	0
b = 0.82041 + 1.17844I		
u = -0.479603 + 0.784159I		
a = -0.897211 - 0.596535I	-1.61001 - 2.03708I	0
b = -0.744257 - 0.439217I		
u = -0.479603 - 0.784159I		
a = -0.897211 + 0.596535I	-1.61001 + 2.03708I	0
b = -0.744257 + 0.439217I		
u = -0.407113 + 1.008750I		
a = -0.98531 + 1.47233I	-2.18677 - 5.95841I	0
b = -1.52746 + 1.13774I		
u = -0.407113 - 1.008750I		
a = -0.98531 - 1.47233I	-2.18677 + 5.95841I	0
b = -1.52746 - 1.13774I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.386401 + 0.817211I		
a = -0.203956 + 0.830260I	2.45806 + 0.61893I	0
b = -0.159541 - 1.196870I		
u = 0.386401 - 0.817211I		
a = -0.203956 - 0.830260I	2.45806 - 0.61893I	0
b = -0.159541 + 1.196870I		
u = -1.046150 + 0.332738I		
a = -0.1227220 + 0.0159749I	0.29483 - 2.54882I	0
b = 0.424953 - 0.507347I		
u = -1.046150 - 0.332738I		
a = -0.1227220 - 0.0159749I	0.29483 + 2.54882I	0
b = 0.424953 + 0.507347I		
u = 0.305621 + 0.839689I		
a = 0.451118 - 0.745475I	-0.04717 + 5.21582I	0
b = 0.53162 + 1.38599I		
u = 0.305621 - 0.839689I		
a = 0.451118 + 0.745475I	-0.04717 - 5.21582I	0
b = 0.53162 - 1.38599I		
u = 0.102778 + 1.102560I		
a = -0.289562 - 0.337758I	-1.38744 - 1.57426I	0
b = -0.915694 - 0.515381I		
u = 0.102778 - 1.102560I		
a = -0.289562 + 0.337758I	-1.38744 + 1.57426I	0
b = -0.915694 + 0.515381I		
u = -0.836195 + 0.738359I		
a = -0.022615 - 0.420518I	0.53731 - 2.71696I	0
b = 0.530676 - 0.335424I		
u = -0.836195 - 0.738359I		
a = -0.022615 + 0.420518I	0.53731 + 2.71696I	0
b = 0.530676 + 0.335424I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.058620 + 0.359379I		
a = -0.629799 + 0.183331I	2.95384 - 4.28359I	0
b = 0.0755610 + 0.0941588I		
u = -1.058620 - 0.359379I		
a = -0.629799 - 0.183331I	2.95384 + 4.28359I	0
b = 0.0755610 - 0.0941588I		
u = -0.234597 + 1.093200I		
a = 0.855601 + 0.763460I	-5.95286 - 2.79198I	0
b = 2.06976 + 0.90235I		
u = -0.234597 - 1.093200I		
a = 0.855601 - 0.763460I	-5.95286 + 2.79198I	0
b = 2.06976 - 0.90235I		
u = -0.875789 + 0.085333I		
a = 0.980339 - 0.393564I	2.58017 - 0.01612I	0
b = -0.003387 - 0.152822I		
u = -0.875789 - 0.085333I		
a = 0.980339 + 0.393564I	2.58017 + 0.01612I	0
b = -0.003387 + 0.152822I		
u = -0.716125 + 0.500928I	0.4.4.00 0.7.4004.7	
a = -0.751351 - 0.879330I	0.14160 - 2.74021I	0
$\frac{b = 0.160617 - 0.584912I}{u = -0.716125 - 0.500928I}$		
a = -0.710123 - 0.300928I $a = -0.751351 + 0.879330I$	0.14160 + 2.74021I	0
	0.14100 + 2.740211	0
$\frac{b = 0.160617 + 0.584912I}{u = -0.076671 + 0.866866I}$		
a = -0.070071 + 0.0000001 a = -0.24748 - 1.49759I	$\begin{vmatrix} -4.71081 + 1.61436I \end{vmatrix}$	0
	-4.71001 + 1.014301	0
$\frac{b = -1.209750 - 0.282047I}{u = -0.076671 - 0.866866I}$		
a = -0.070071 - 0.0000001 $a = -0.24748 + 1.49759I$	$\begin{vmatrix} -4.71081 - 1.61436I \end{vmatrix}$	0
b = -1.209750 + 0.282047I	4.11001 1.014301	
$0 = -1.203130 \pm 0.2020411$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.439982 + 1.046660I		
a = -1.268990 - 0.479427I	-0.87427 - 3.56380I	0
b = -1.88839 - 0.77911I		
u = -0.439982 - 1.046660I		
a = -1.268990 + 0.479427I	-0.87427 + 3.56380I	0
b = -1.88839 + 0.77911I		
u = -0.559459 + 0.990612I		
a = 1.076900 + 0.316696I	-1.22853 - 2.11504I	0
b = 1.35625 + 0.67086I		
u = -0.559459 - 0.990612I		
a = 1.076900 - 0.316696I	-1.22853 + 2.11504I	0
b = 1.35625 - 0.67086I		
u = 0.048454 + 0.848204I		
a = -0.779682 - 1.070800I	-1.66325 - 2.67840I	0
b = -1.145820 + 0.165807I		
u = 0.048454 - 0.848204I		
a = -0.779682 + 1.070800I	-1.66325 + 2.67840I	0
b = -1.145820 - 0.165807I		
u = 0.684155 + 0.497669I		
a = 0.404608 + 0.408649I	-1.73029 - 0.93389I	0
b = -0.174427 + 0.086705I		
u = 0.684155 - 0.497669I		
a = 0.404608 - 0.408649I	-1.73029 + 0.93389I	0
b = -0.174427 - 0.086705I		
u = 0.098377 + 0.839720I		
a = -0.405353 + 1.132110I	-3.45130 + 5.18108I	0
b = 0.260415 - 1.036450I		
u = 0.098377 - 0.839720I		
a = -0.405353 - 1.132110I	-3.45130 - 5.18108I	0
b = 0.260415 + 1.036450I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.234639 + 1.136980I		
a = -0.392035 - 0.377420I	-1.33306 - 1.70403I	0
b = -0.875694 - 0.346315I		
u = -0.234639 - 1.136980I		
a = -0.392035 + 0.377420I	-1.33306 + 1.70403I	0
b = -0.875694 + 0.346315I		
u = -0.367582 + 1.122900I		
a = -1.116720 - 0.536632I	-1.12999 - 3.80246I	0
b = -1.94737 - 0.92939I		
u = -0.367582 - 1.122900I		
a = -1.116720 + 0.536632I	-1.12999 + 3.80246I	0
b = -1.94737 + 0.92939I		
u = 0.605279 + 1.015050I		
a = -0.999021 + 0.169632I	-3.63955 + 7.18297I	0
b = -2.33491 + 0.60399I		
u = 0.605279 - 1.015050I		
a = -0.999021 - 0.169632I	-3.63955 - 7.18297I	0
b = -2.33491 - 0.60399I		
u = 0.260915 + 0.765957I		
a = -0.036896 + 0.185567I	0.21605 - 2.34849I	0
b = -2.10271 + 0.45733I		
u = 0.260915 - 0.765957I		
a = -0.036896 - 0.185567I	0.21605 + 2.34849I	0
b = -2.10271 - 0.45733I		
u = 0.537647 + 1.072600I		
a = 1.317540 - 0.141462I	-2.86655 + 9.64651I	0
b = 2.34754 - 0.83714I		
u = 0.537647 - 1.072600I		
a = 1.317540 + 0.141462I	-2.86655 - 9.64651I	0
b = 2.34754 + 0.83714I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.333919 + 0.717506I		
a = 0.268066 - 0.342195I	2.78920 + 2.76787I	0
b = 2.59020 - 0.47265I		
u = 0.333919 - 0.717506I		
a = 0.268066 + 0.342195I	2.78920 - 2.76787I	0
b = 2.59020 + 0.47265I		
u = -0.333894 + 1.167410I		
a = 1.129530 + 0.411509I	-2.07419 - 7.73209I	0
b = 2.00594 + 1.02466I		
u = -0.333894 - 1.167410I		
a = 1.129530 - 0.411509I	-2.07419 + 7.73209I	0
b = 2.00594 - 1.02466I		
u = 0.501635 + 1.108730I		
a = -1.353990 + 0.309421I	-1.99883 + 8.46741I	0
b = -2.23528 + 0.81907I		
u = 0.501635 - 1.108730I		
a = -1.353990 - 0.309421I	-1.99883 - 8.46741I	0
b = -2.23528 - 0.81907I		
u = -0.419293 + 1.144830I		
a = -0.812068 + 0.252464I	-8.69619 - 9.59606I	0
b = -2.07568 - 0.85191I		
u = -0.419293 - 1.144830I		
a = -0.812068 - 0.252464I	-8.69619 + 9.59606I	0
b = -2.07568 + 0.85191I		
u = 0.640452 + 0.434618I		
a = -0.46007 + 1.69091I	-0.97778 - 5.02063I	0
b = 0.486726 + 0.141249I		
u = 0.640452 - 0.434618I		
a = -0.46007 - 1.69091I	-0.97778 + 5.02063I	0
b = 0.486726 - 0.141249I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.028026 + 0.762209I		
a = -0.34995 + 2.09230I	1.20764 + 2.00995I	0
b = 0.049671 + 0.551414I		
u = -0.028026 - 0.762209I		
a = -0.34995 - 2.09230I	1.20764 - 2.00995I	0
b = 0.049671 - 0.551414I		
u = 0.435567 + 1.158280I		
a = -0.49408 - 1.76943I	-5.86458 + 11.37010I	0
b = -0.89729 - 1.21336I		
u = 0.435567 - 1.158280I		
a = -0.49408 + 1.76943I	-5.86458 - 11.37010I	0
b = -0.89729 + 1.21336I		
u = -1.014410 + 0.720047I		
a = 0.239715 + 1.213540I	-5.33470 + 0.59771I	0
b = 0.0238577 + 0.1296900I		
u = -1.014410 - 0.720047I		
a = 0.239715 - 1.213540I	-5.33470 - 0.59771I	0
b = 0.0238577 - 0.1296900I		
u = -0.410857 + 1.178470I		
a = 0.375001 + 0.455285I	-6.47721 - 10.97930I	0
b = 1.18080 - 1.41938I		
u = -0.410857 - 1.178470I		
a = 0.375001 - 0.455285I	-6.47721 + 10.97930I	0
b = 1.18080 + 1.41938I		
u = -0.644231 + 0.372872I		
a = 0.447550 - 0.173413I	-5.33586 - 6.28246I	0
b = -1.267090 + 0.225983I		
u = -0.644231 - 0.372872I		
a = 0.447550 + 0.173413I	-5.33586 + 6.28246I	0
b = -1.267090 - 0.225983I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.438705 + 1.177180I		
a = -1.54908 + 0.43391I	-2.94278 + 7.44361I	0
b = -2.10095 + 0.63619I		
u = 0.438705 - 1.177180I		
a = -1.54908 - 0.43391I	-2.94278 - 7.44361I	0
b = -2.10095 - 0.63619I		
u = -0.382326 + 1.197740I		
a = 0.721448 + 0.109899I	-4.22919 - 6.26560I	0
b = 2.03743 + 0.82252I		
u = -0.382326 - 1.197740I		
a = 0.721448 - 0.109899I	-4.22919 + 6.26560I	0
b = 2.03743 - 0.82252I		
u = -0.033716 + 0.738210I		
a = 0.84910 - 1.98834I	0.24310 + 6.09666I	0
b = 0.574428 - 0.270139I		
u = -0.033716 - 0.738210I		
a = 0.84910 + 1.98834I	0.24310 - 6.09666I	0
b = 0.574428 + 0.270139I		
u = 0.529876 + 1.145710I		
a = -0.708720 - 0.047149I	-7.39934 + 3.53210I	0
b = -1.72054 - 0.23689I		
u = 0.529876 - 1.145710I		
a = -0.708720 + 0.047149I	-7.39934 - 3.53210I	0
b = -1.72054 + 0.23689I		
u = 0.442939 + 1.182310I		
a = 0.866422 + 0.102242I	-7.80553 + 4.86185I	0
b = 2.17875 - 0.05556I		
u = 0.442939 - 1.182310I		
a = 0.866422 - 0.102242I	-7.80553 - 4.86185I	0
b = 2.17875 + 0.05556I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.393652 + 1.211750I		
a = 0.21775 + 1.75107I	-0.87631 + 4.82402I	0
b = 0.443968 + 1.025100I		
u = 0.393652 - 1.211750I		
a = 0.21775 - 1.75107I	-0.87631 - 4.82402I	0
b = 0.443968 - 1.025100I		
u = -0.087241 + 0.719984I		
a = -2.34275 + 0.61256I	-0.53378 + 3.17236I	0
b = -2.33447 + 0.79117I		
u = -0.087241 - 0.719984I		
a = -2.34275 - 0.61256I	-0.53378 - 3.17236I	0
b = -2.33447 - 0.79117I		
u = -0.748779 + 1.038760I		
a = 0.365359 - 0.150185I	0.40911 - 2.74174I	0
b = 0.770047 - 0.017026I		
u = -0.748779 - 1.038760I		
a = 0.365359 + 0.150185I	0.40911 + 2.74174I	0
b = 0.770047 + 0.017026I		
u = -1.229120 + 0.362344I		
a = 0.465705 + 0.983824I	-3.4044 + 14.3626I	0
b = -0.0368071 - 0.0127765I		
u = -1.229120 - 0.362344I		
a = 0.465705 - 0.983824I	-3.4044 - 14.3626I	0
b = -0.0368071 + 0.0127765I		
u = 0.466760 + 1.194170I		
a = 1.33115 - 0.73487I	-9.5040 + 10.9406I	0
b = 2.18556 - 0.70231I		
u = 0.466760 - 1.194170I		
a = 1.33115 + 0.73487I	-9.5040 - 10.9406I	0
b = 2.18556 + 0.70231I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.558332 + 1.161560I		
a = 0.443192 + 0.167744I	-2.20499 - 1.02816I	0
b = 0.501884 + 0.269382I		
u = 0.558332 - 1.161560I		
a = 0.443192 - 0.167744I	-2.20499 + 1.02816I	0
b = 0.501884 - 0.269382I		
u = -0.285330 + 1.258170I		
a = -0.637101 - 0.450925I	-6.47059 - 5.52853I	0
b = -1.89429 - 1.05798I		
u = -0.285330 - 1.258170I		
a = -0.637101 + 0.450925I	-6.47059 + 5.52853I	0
b = -1.89429 + 1.05798I		
u = 0.149208 + 0.690518I		
a = 0.91398 - 1.08084I	-0.72543 + 4.34633I	0
b = 0.507391 + 0.855322I		
u = 0.149208 - 0.690518I		
a = 0.91398 + 1.08084I	-0.72543 - 4.34633I	0
b = 0.507391 - 0.855322I		
u = -0.387714 + 1.234250I		
a = -0.270639 - 0.660009I	-1.42165 - 5.04521I	0
b = -0.655789 + 1.049870I		
u = -0.387714 - 1.234250I		
a = -0.270639 + 0.660009I	-1.42165 + 5.04521I	0
b = -0.655789 - 1.049870I		
u = -0.531578 + 1.185050I		
a = 0.372724 + 0.181043I	-7.86948 + 1.40734I	0
b = 1.17027 - 0.84612I		
u = -0.531578 - 1.185050I		
a = 0.372724 - 0.181043I	-7.86948 - 1.40734I	0
b = 1.17027 + 0.84612I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.431204 + 1.225640I		
a = 1.319220 + 0.005708I	-2.77505 + 1.47441I	0
b = 1.65394 - 0.15921I		
u = 0.431204 - 1.225640I		
a = 1.319220 - 0.005708I	-2.77505 - 1.47441I	0
b = 1.65394 + 0.15921I		
u = -0.626526 + 0.312049I		
a = -1.17416 + 0.87841I	-2.84820 - 7.42093I	0
b = -2.10004 - 0.32376I		
u = -0.626526 - 0.312049I		
a = -1.17416 - 0.87841I	-2.84820 + 7.42093I	0
b = -2.10004 + 0.32376I		
u = 0.680546 + 0.036182I		
a = -1.43002 - 1.24968I	-6.14873 + 6.63023I	0
b = -0.722558 - 0.480001I		
u = 0.680546 - 0.036182I		
a = -1.43002 + 1.24968I	-6.14873 - 6.63023I	0
b = -0.722558 + 0.480001I		
u = 0.678918 + 0.002816I		
a = -0.217258 + 1.174120I	-4.46591 - 0.70645I	0
b = 0.149928 - 0.325133I		
u = 0.678918 - 0.002816I		
a = -0.217258 - 1.174120I	-4.46591 + 0.70645I	0
b = 0.149928 + 0.325133I		
u = 0.504277 + 0.453511I		
a = 0.16964 - 1.44820I	-2.28472 - 2.65617I	0
b = -0.346566 + 0.366879I		
u = 0.504277 - 0.453511I		
a = 0.16964 + 1.44820I	-2.28472 + 2.65617I	0
b = -0.346566 - 0.366879I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.475985 + 1.235950I		
a = -0.856491 - 0.678835I	-9.45377 - 2.03390I	0
b = -1.260310 - 0.622777I		
u = 0.475985 - 1.235950I		
a = -0.856491 + 0.678835I	-9.45377 + 2.03390I	0
b = -1.260310 + 0.622777I		
u = 0.621220 + 1.187460I		
a = 1.041710 - 0.347191I	1.81905 + 9.95689I	0
b = 2.18949 - 0.71861I		
u = 0.621220 - 1.187460I		
a = 1.041710 + 0.347191I	1.81905 - 9.95689I	0
b = 2.18949 + 0.71861I		
u = -0.486092 + 1.258670I		
a = -0.384993 - 0.183344I	-3.25832 - 3.00238I	0
b = -1.46208 + 0.06014I		
u = -0.486092 - 1.258670I		
a = -0.384993 + 0.183344I	-3.25832 + 3.00238I	0
b = -1.46208 - 0.06014I		
u = -0.121481 + 0.637178I		
a = 0.42518 + 2.34989I	1.005360 + 0.434589I	0
b = 0.526236 + 1.049380I		
u = -0.121481 - 0.637178I		
a = 0.42518 - 2.34989I	1.005360 - 0.434589I	0
b = 0.526236 - 1.049380I		
u = 0.579713 + 1.222030I		
a = -1.045860 + 0.425970I	-1.3828 + 14.4203I	0
b = -2.20744 + 0.77329I		
u = 0.579713 - 1.222030I		
a = -1.045860 - 0.425970I	-1.3828 - 14.4203I	0
b = -2.20744 - 0.77329I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.560736 + 1.238130I		
a = 0.33357 - 1.37575I	-5.06328 - 2.93367I	0
b = 0.457247 - 0.403555I		
u = 0.560736 - 1.238130I		
a = 0.33357 + 1.37575I	-5.06328 + 2.93367I	0
b = 0.457247 + 0.403555I		
u = -0.381854 + 1.309230I		
a = 0.483878 + 0.316618I	-5.21829 - 6.30403I	0
b = 1.57718 + 0.83332I		
u = -0.381854 - 1.309230I		
a = 0.483878 - 0.316618I	-5.21829 + 6.30403I	0
b = 1.57718 - 0.83332I		
u = -0.586489 + 1.234750I		
a = -0.161095 + 0.910798I	-5.35813 + 2.29755I	0
b = -0.587222 - 0.434167I		
u = -0.586489 - 1.234750I		
a = -0.161095 - 0.910798I	-5.35813 - 2.29755I	0
b = -0.587222 + 0.434167I		
u = 0.532139 + 0.339530I		
a = 0.78760 - 1.92564I	0.25837 - 4.18569I	0
b = -0.279614 - 0.480796I		
u = 0.532139 - 0.339530I		
a = 0.78760 + 1.92564I	0.25837 + 4.18569I	0
b = -0.279614 + 0.480796I		
u = 0.424533 + 0.457543I		
a = -0.601128 + 0.966135I	-2.78160 + 7.86072I	0
b = -2.62729 + 0.33199I		
u = 0.424533 - 0.457543I		
a = -0.601128 - 0.966135I	-2.78160 - 7.86072I	0
b = -2.62729 - 0.33199I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.299930 + 1.348740I		
a = 0.307734 + 0.389827I	-3.42562 - 4.81037I	0
b = 0.717305 + 0.570666I		
u = 0.299930 - 1.348740I		
a = 0.307734 - 0.389827I	-3.42562 + 4.81037I	0
b = 0.717305 - 0.570666I		
u = -0.009285 + 1.387790I		
a = 0.911430 - 0.342162I	-13.06760 - 2.06050I	0
b = 1.72700 - 0.63436I		
u = -0.009285 - 1.387790I		
a = 0.911430 + 0.342162I	-13.06760 + 2.06050I	0
b = 1.72700 + 0.63436I		
u = -0.364258 + 0.491297I		
a = 2.18850 - 0.87635I	2.57513 - 2.17826I	0
b = 2.21922 - 0.25619I		
u = -0.364258 - 0.491297I		
a = 2.18850 + 0.87635I	2.57513 + 2.17826I	0
b = 2.21922 + 0.25619I		
u = -1.340200 + 0.442820I		
a = -0.350239 - 0.961117I	1.12294 + 7.63354I	0
b = 0.0265961 - 0.0214565I		
u = -1.340200 - 0.442820I		
a = -0.350239 + 0.961117I	1.12294 - 7.63354I	0
b = 0.0265961 + 0.0214565I		
u = 0.54172 + 1.31098I		
a = -0.793555 + 0.067582I	-7.18117 + 3.46375I	0
b = -1.72633 + 0.19276I		
u = 0.54172 - 1.31098I		
a = -0.793555 - 0.067582I	-7.18117 - 3.46375I	0
b = -1.72633 - 0.19276I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.43372 + 0.24567I		
a = 0.150656 - 0.565626I	-3.04370 + 3.26515I	0
b = -0.0073340 + 0.0463185I		
u = 1.43372 - 0.24567I		
a = 0.150656 + 0.565626I	-3.04370 - 3.26515I	0
b = -0.0073340 - 0.0463185I		
u = 0.79036 + 1.22142I		
a = 0.571387 - 0.080867I	-3.21763 + 7.33631I	0
b = 1.091120 - 0.114019I		
u = 0.79036 - 1.22142I		
a = 0.571387 + 0.080867I	-3.21763 - 7.33631I	0
b = 1.091120 + 0.114019I		
u = -0.70331 + 1.29448I		
a = -1.106360 - 0.296809I	-6.4156 - 21.1557I	0
b = -2.21950 - 0.64052I		
u = -0.70331 - 1.29448I		
a = -1.106360 + 0.296809I	-6.4156 + 21.1557I	0
b = -2.21950 + 0.64052I		
u = 1.47992		
a = 1.25035	4.37762	0
b = 2.31492		
u = -0.64482 + 1.34748I		
a = -0.274879 - 0.147474I	-1.52586 - 5.48848I	0
b = -0.703282 - 0.402575I		
u = -0.64482 - 1.34748I		
a = -0.274879 + 0.147474I	-1.52586 + 5.48848I	0
b = -0.703282 + 0.402575I		
u = -0.73398 + 1.32142I		
a = 1.094620 + 0.279510I	-1.8697 - 14.8720I	0
b = 2.15652 + 0.58388I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.73398 - 1.32142I		
a = 1.094620 - 0.279510I	-1.8697 + 14.8720I	0
b = 2.15652 - 0.58388I		
u = 0.13874 + 1.51266I		
a = -0.855324 + 0.186569I	-7.77783 + 2.76114I	0
b = -1.69591 + 0.43417I		
u = 0.13874 - 1.51266I		
a = -0.855324 - 0.186569I	-7.77783 - 2.76114I	0
b = -1.69591 - 0.43417I		
u = -0.86516 + 1.25205I		
a = -1.131250 - 0.221950I	-6.83508 - 7.82853I	0
b = -2.18588 - 0.41943I		
u = -0.86516 - 1.25205I		
a = -1.131250 + 0.221950I	-6.83508 + 7.82853I	0
b = -2.18588 + 0.41943I		
u = 0.79129 + 1.31224I		
a = -0.553306 + 0.165597I	-6.7736 + 12.5061I	0
b = -1.049560 + 0.356361I		
u = 0.79129 - 1.31224I		
a = -0.553306 - 0.165597I	-6.7736 - 12.5061I	0
b = -1.049560 - 0.356361I		
u = -1.54495		
a = 1.04997	4.12895	0
b = 2.27159		
u = 1.28041 + 0.97788I		
a = -0.127772 - 0.161756I	-4.59353 - 4.59420I	0
b = -0.0725560 - 0.0134018I		
u = 1.28041 - 0.97788I		
a = -0.127772 + 0.161756I	-4.59353 + 4.59420I	0
b = -0.0725560 + 0.0134018I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.01737 + 1.61759I		
a = 0.721751 - 0.207824I	-11.0891 + 9.1802I	0
b = 1.47941 - 0.44915I		
u = -0.01737 - 1.61759I		
a = 0.721751 + 0.207824I	-11.0891 - 9.1802I	0
b = 1.47941 + 0.44915I		
u = -0.056667 + 0.364599I		
a = -1.79478 + 1.99428I	-5.84036 + 6.42157I	-6.50283 - 7.08750I
b = -1.31241 - 0.99237I		
u = -0.056667 - 0.364599I		
a = -1.79478 - 1.99428I	-5.84036 - 6.42157I	-6.50283 + 7.08750I
b = -1.31241 + 0.99237I		
u = -0.367161 + 0.021594I		
a = 2.38105 + 0.67609I	1.341490 + 0.260034I	8.08018 - 0.36010I
b = 0.410158 + 0.339605I		
u = -0.367161 - 0.021594I		
a = 2.38105 - 0.67609I	1.341490 - 0.260034I	8.08018 + 0.36010I
b = 0.410158 - 0.339605I		
u = 0.280458 + 0.237248I		
a = 1.22026 - 2.94290I	0.14519 - 3.92695I	4.54903 + 6.35739I
b = -0.272947 - 0.974716I		
u = 0.280458 - 0.237248I		
a = 1.22026 + 2.94290I	0.14519 + 3.92695I	4.54903 - 6.35739I
b = -0.272947 + 0.974716I		
u = -0.295649 + 0.049688I		
a = -0.71478 - 2.85769I	-0.06780 - 2.95860I	2.64101 + 4.26437I
b = -1.019320 - 0.393889I		
u = -0.295649 - 0.049688I		
a = -0.71478 + 2.85769I	-0.06780 + 2.95860I	2.64101 - 4.26437I
b = -1.019320 + 0.393889I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.212153 + 0.098592I		
a = -3.40214 - 2.30592I	-2.85425 - 7.75924I	8.58633 + 5.61559I
b = -2.48630 + 0.62101I		
u = 0.212153 - 0.098592I		
a = -3.40214 + 2.30592I	-2.85425 + 7.75924I	8.58633 - 5.61559I
b = -2.48630 - 0.62101I		
u = -0.036843 + 0.185102I		
a = 4.82062 - 1.56314I	2.49486 - 2.18042I	9.71403 - 2.99560I
b = 1.95759 - 1.02958I		
u = -0.036843 - 0.185102I		
a = 4.82062 + 1.56314I	2.49486 + 2.18042I	9.71403 + 2.99560I
b = 1.95759 + 1.02958I		

$$II.\ I_2^u = \\ \langle 4.74 \times 10^{39} u^{49} + 1.09 \times 10^{39} u^{48} + \dots + 2.55 \times 10^{37} b - 7.04 \times 10^{39},\ 1.73 \times 10^{39} u^{49} + \\ 8.72 \times 10^{38} u^{48} + \dots + 2.55 \times 10^{37} a - 5.63 \times 10^{39},\ u^{50} + 11 u^{48} + \dots - 3u - 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -67.9334u^{49} - 34.1864u^{48} + \dots + 683.170u + 220.776 \\ -185.811u^{49} - 42.6397u^{48} + \dots + 1200.50u + 275.850 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -27.9405u^{49} - 34.5330u^{48} + \dots + 539.933u + 212.323 \\ -145.818u^{49} - 42.9863u^{48} + \dots + 1057.26u + 267.396 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 13.5587u^{49} + 17.3451u^{48} + \dots - 286.224u - 148.001 \\ 38.9066u^{49} - 16.9715u^{48} + \dots - 111.942u - 43.9213 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 23.7797u^{49} - 66.3102u^{48} + \dots + 277.180u + 211.433 \\ -36.1519u^{49} + 14.5509u^{48} + \dots + 25.2987u + 25.8393 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 46.0551u^{49} - 94.2234u^{48} + \dots + 427.033u + 251.903 \\ -20.8778u^{49} - 2.80492u^{48} + \dots + 86.7631u + 53.7526 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -127.068u^{49} + 108.289u^{48} + \dots + 275.283u - 252.540 \\ 50.3715u^{49} + 41.3419u^{48} + \dots - 359.296u - 96.9338 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 55.6720u^{49} - 25.1811u^{48} + \dots + 85.3437u + 176.744 \\ -98.1535u^{49} - 3.95321u^{48} + \dots + 306.071u + 47.2524 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 23.1558u^{49} - 29.2941u^{48} + \dots + 198.985u + 32.1204 \\ -108.278u^{49} - 25.9694u^{48} + \dots + 198.985u + 32.1204 \\ -108.278u^{49} - 25.9694u^{48} + \dots + 596.049u + 136.726 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-221.739u^{49} + 57.4222u^{48} + \cdots + 1695.90u + 57.7020$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{50} - 15u^{49} + \dots - 336u + 73$
c_2	$u^{50} + 11u^{48} + \dots - 3u - 1$
c_3	$u^{50} - 2u^{49} + \dots - 6u + 1$
c_4	$u^{50} + 16u^{48} + \dots - 2u - 13$
<i>C</i> ₅	$u^{50} - 8u^{48} + \dots + u - 1$
	$u^{50} + 11u^{48} + \dots + 3u - 1$
	$u^{50} - 2u^{49} + \dots - 11u + 1$
<i>c</i> ₈	$u^{50} + 2u^{49} + \dots + 6u + 1$
<i>c</i> ₉	$u^{50} + 15u^{49} + \dots + 84u + 8$
c_{10}	$u^{50} + 6u^{49} + \dots - 16u - 1$
c_{11}	$u^{50} - 16u^{48} + \dots + 6u - 1$
c_{12}	$u^{50} - 15u^{49} + \dots - 84u + 8$
	26

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{50} + 3y^{49} + \dots - 93040y + 5329$
c_2, c_6	$y^{50} + 22y^{49} + \dots + 37y + 1$
c_3, c_8	$y^{50} - 46y^{49} + \dots - 38y + 1$
c_4	$y^{50} + 32y^{49} + \dots + 1582y + 169$
c_5	$y^{50} - 16y^{49} + \dots + 29y + 1$
c_7	$y^{50} + 2y^{49} + \dots - 23y + 1$
c_9, c_{12}	$y^{50} + 27y^{49} + \dots + 1136y + 64$
c_{10}	$y^{50} + 6y^{49} + \dots - 34y + 1$
c_{11}	$y^{50} - 32y^{49} + \dots - 10y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.311314 + 0.961299I		
a = -1.260280 - 0.212570I	-1.71505 - 4.81287I	0. + 7.72941I
b = -1.69903 - 0.69233I		
u = -0.311314 - 0.961299I		
a = -1.260280 + 0.212570I	-1.71505 + 4.81287I	0 7.72941I
b = -1.69903 + 0.69233I		
u = -0.491983 + 0.820271I		
a = -0.08617 - 1.46946I	1.03095 - 2.07390I	2.00000 + 5.52885I
b = 0.344328 - 0.851474I		
u = -0.491983 - 0.820271I		
a = -0.08617 + 1.46946I	1.03095 + 2.07390I	2.00000 - 5.52885I
b = 0.344328 + 0.851474I		
u = -0.856383 + 0.401483I		
a = 0.389445 - 0.648763I	2.14362 - 3.24414I	7.89410 + 5.39245I
b = 0.652773 - 0.905898I		
u = -0.856383 - 0.401483I		
a = 0.389445 + 0.648763I	2.14362 + 3.24414I	7.89410 - 5.39245I
b = 0.652773 + 0.905898I		
u = 0.921310 + 0.026987I		
a = -0.855716 + 0.848061I	1.37009 - 5.25079I	4.09436 + 7.50320I
b = 0.120560 + 0.229680I		
u = 0.921310 - 0.026987I		
a = -0.855716 - 0.848061I	1.37009 + 5.25079I	4.09436 - 7.50320I
b = 0.120560 - 0.229680I		
u = -0.524277 + 0.724032I		
a = 0.55769 + 1.37341I	-3.52888 + 0.75637I	-0.732769 - 1.153097I
b = 0.795311 - 0.011131I		
u = -0.524277 - 0.724032I		
a = 0.55769 - 1.37341I	-3.52888 - 0.75637I	-0.732769 + 1.153097I
b = 0.795311 + 0.011131I		

Solutions to I_2^u	$ \sqrt{-1}(\text{vol} + \sqrt{-1}CS) $	Cusp shape
u = 0.706071 + 0.891806I		
a = -1.219190 + 0.096103I	-4.92503 + 8.29512I	0
b = -2.46538 + 0.50636I		
u = 0.706071 - 0.891806I		
a = -1.219190 - 0.096103I	-4.92503 - 8.29512I	0
b = -2.46538 - 0.50636I		
u = 0.107748 + 0.842915I		
a = -0.678808 + 1.122350I	-1.29972 + 4.52723I	-5.99278 - 6.25358I
b = -0.562760 - 0.615922I		
u = 0.107748 - 0.842915I		
a = -0.678808 - 1.122350I	-1.29972 - 4.52723I	-5.99278 + 6.25358I
b = -0.562760 + 0.615922I		
u = -0.197529 + 0.788682I		
a = -1.19282 + 0.78918I	-0.66103 + 2.57431I	0.749849 + 0.988331I
b = -2.16341 + 0.11151I		
u = -0.197529 - 0.788682I		
a = -1.19282 - 0.78918I	-0.66103 - 2.57431I	0.749849 - 0.988331I
b = -2.16341 - 0.11151I		
u = -0.412671 + 1.113580I		
a = -0.540685 + 0.250252I	-1.93667 - 4.94547I	0
b = -0.927252 - 0.237950I		
u = -0.412671 - 1.113580I		
a = -0.540685 - 0.250252I	-1.93667 + 4.94547I	0
b = -0.927252 + 0.237950I		
u = -0.492505 + 1.081080I		
a = 0.961469 + 0.244037I	-0.22248 - 1.71492I	0
b = 1.240530 + 0.523267I		
u = -0.492505 - 1.081080I		
a = 0.961469 - 0.244037I	-0.22248 + 1.71492I	0
b = 1.240530 - 0.523267I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.487128 + 1.121800I		
a = 1.317400 - 0.262848I	-1.72644 + 9.51152I	0
b = 2.26371 - 0.88299I		
u = 0.487128 - 1.121800I		
a = 1.317400 + 0.262848I	-1.72644 - 9.51152I	0
b = 2.26371 + 0.88299I		
u = 0.356765 + 1.177710I		
a = -0.260999 + 0.888201I	-2.04507 + 5.08327I	0
b = -0.248398 - 0.267878I		
u = 0.356765 - 1.177710I		
a = -0.260999 - 0.888201I	-2.04507 - 5.08327I	0
b = -0.248398 + 0.267878I		
u = -1.082990 + 0.645786I		
a = -0.362304 - 0.201159I	0.89404 - 2.69476I	0
b = 0.144381 - 0.235859I		
u = -1.082990 - 0.645786I		
a = -0.362304 + 0.201159I	0.89404 + 2.69476I	0
b = 0.144381 + 0.235859I		
u = 0.456332 + 1.186530I		
a = 0.123211 - 0.671669I	-6.95608 + 10.37330I	0
b = 0.271516 + 0.364515I		
u = 0.456332 - 1.186530I		
a = 0.123211 + 0.671669I	-6.95608 - 10.37330I	0
b = 0.271516 - 0.364515I		
u = -0.302571 + 1.244330I		
a = 0.580494 + 0.304297I	-5.81695 - 6.06858I	0
b = 1.77607 + 1.04415I		
u = -0.302571 - 1.244330I		
a = 0.580494 - 0.304297I	-5.81695 + 6.06858I	0
b = 1.77607 - 1.04415I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.425760 + 1.235110I		
a = -0.704285 - 0.359723I	-5.70718 - 4.92426I	0
b = -1.96648 - 0.73246I		
u = -0.425760 - 1.235110I		
a = -0.704285 + 0.359723I	-5.70718 + 4.92426I	0
b = -1.96648 + 0.73246I		
u = -0.008165 + 0.691333I		
a = 0.56308 - 1.33676I	-3.13476 + 4.72994I	1.004141 - 0.516519I
b = 0.119390 + 1.158080I		
u = -0.008165 - 0.691333I		
a = 0.56308 + 1.33676I	-3.13476 - 4.72994I	1.004141 + 0.516519I
b = 0.119390 - 1.158080I		
u = -0.210061 + 0.622572I		
a = 1.136170 - 0.813731I	2.20086 - 2.53041I	-1.00937 + 8.63488I
b = 2.42003 - 0.63428I		
u = -0.210061 - 0.622572I		
a = 1.136170 + 0.813731I	2.20086 + 2.53041I	-1.00937 - 8.63488I
b = 2.42003 + 0.63428I		
u = -1.37605		
a = 1.22902	4.57078	0
b = 2.36409		
u = 0.455870 + 1.306860I		
a = -0.326369 - 0.113765I	-2.26106 - 1.36420I	0
b = -0.570951 - 0.415211I		
u = 0.455870 - 1.306860I		
a = -0.326369 + 0.113765I	-2.26106 + 1.36420I	0
b = -0.570951 + 0.415211I		
u = 0.670768 + 1.226860I		
a = 0.019444 - 1.026060I	-5.97561 - 2.40304I	0
b = -0.054875 + 0.224017I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.670768 - 1.226860I		
a = 0.019444 + 1.026060I	-5.97561 + 2.40304I	0
b = -0.054875 - 0.224017I		
u = 0.211580 + 0.517270I		
a = 0.36383 + 2.76930I	0.76429 - 5.92280I	8.72818 + 4.98523I
b = 0.568719 + 0.555516I		
u = 0.211580 - 0.517270I		
a = 0.36383 - 2.76930I	0.76429 + 5.92280I	8.72818 - 4.98523I
b = 0.568719 - 0.555516I		
u = -0.030950 + 0.532122I		
a = -1.33965 + 0.70106I	-3.21242 - 7.76874I	-14.0711 + 6.2265I
b = -3.24977 + 0.72633I		
u = -0.030950 - 0.532122I		
a = -1.33965 - 0.70106I	-3.21242 + 7.76874I	-14.0711 - 6.2265I
b = -3.24977 - 0.72633I		
u = 1.05009 + 1.02803I		
a = 0.060415 + 0.153440I	-4.47395 - 4.68220I	0
b = 0.036640 + 0.404618I		
u = 1.05009 - 1.02803I		
a = 0.060415 - 0.153440I	-4.47395 + 4.68220I	0
b = 0.036640 - 0.404618I		
u = -0.187380 + 0.484980I		
a = -1.40223 - 2.36655I	1.78652 - 2.28558I	9.94585 + 3.54508I
b = -0.148481 - 0.761387I		
u = -0.187380 - 0.484980I		
a = -1.40223 + 2.36655I	1.78652 + 2.28558I	9.94585 - 3.54508I
b = -0.148481 + 0.761387I		
u = 1.59782		
a = 1.08466	3.99852	0
b = 2.24156		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{50} - 15u^{49} + \dots - 336u + 73)$ $\cdot (u^{184} - 4u^{183} + \dots - 71040737947u + 8873630559)$
c_2	$ (u^{50} + 11u^{48} + \dots - 3u - 1)(u^{184} - u^{183} + \dots - 2u - 1) $
c_3	$(u^{50} - 2u^{49} + \dots - 6u + 1)$ $\cdot (u^{184} + u^{183} + \dots - 123190029u + 17977599)$
<i>C</i> ₄	$ (u^{50} + 16u^{48} + \dots - 2u - 13)(u^{184} + 3u^{183} + \dots - 822455u - 157289) $
<i>C</i> 5	$(u^{50} - 8u^{48} + \dots + u - 1)(u^{184} + u^{183} + \dots - 22u - 3)$
c_6	$ (u^{50} + 11u^{48} + \dots + 3u - 1)(u^{184} - u^{183} + \dots - 2u - 1) $
<i>C</i> ₇	$(u^{50} - 2u^{49} + \dots - 11u + 1)(u^{184} + 17u^{183} + \dots + 108u + 49)$
c ₈	$(u^{50} + 2u^{49} + \dots + 6u + 1)$ $\cdot (u^{184} + u^{183} + \dots - 123190029u + 17977599)$
c_9	$(u^{50} + 15u^{49} + \dots + 84u + 8)(u^{184} - 14u^{183} + \dots - 244560u + 39592)$
c_{10}	$(u^{50} + 6u^{49} + \dots - 16u - 1)(u^{184} - 13u^{183} + \dots + 4409u - 1081)$
c_{11}	$(u^{50} - 16u^{48} + \dots + 6u - 1)(u^{184} - 5u^{183} + \dots - 57u - 1)$
c_{12}	$(u^{50} - 15u^{49} + \dots - 84u + 8)(u^{184} - 14u^{183} + \dots - 244560u + 39592)$ 34

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{50} + 3y^{49} + \dots - 93040y + 5329)$ $\cdot (y^{184} - 48y^{183} + \dots - 2.97 \times 10^{21}y + 7.87 \times 10^{19})$
c_2, c_6	$(y^{50} + 22y^{49} + \dots + 37y + 1)(y^{184} + 95y^{183} + \dots + 52y + 1)$
c_3, c_8	$(y^{50} - 46y^{49} + \dots - 38y + 1)$ $\cdot (y^{184} - 145y^{183} + \dots - 6975999890891991y + 323194065804801)$
c_4	$(y^{50} + 32y^{49} + \dots + 1582y + 169)$ $\cdot (y^{184} + 57y^{183} + \dots + 1925713891789y + 24739829521)$
c_5	$y^{50} - 16y^{49} + \dots + 29y + 1)(y^{184} - 11y^{183} + \dots - 1072y + 9)$
c_7	$(y^{50} + 2y^{49} + \dots - 23y + 1)(y^{184} - 9y^{183} + \dots - 210604y + 2401)$
c_9, c_{12}	$(y^{50} + 27y^{49} + \dots + 1136y + 64)$ $\cdot (y^{184} + 120y^{183} + \dots + 108376113824y + 1567526464)$
c_{10}	$(y^{50} + 6y^{49} + \dots - 34y + 1)$ $\cdot (y^{184} + 19y^{183} + \dots + 407531937y + 1168561)$
c_{11}	$(y^{50} - 32y^{49} + \dots - 10y + 1)(y^{184} - 31y^{183} + \dots - 179y + 1)$