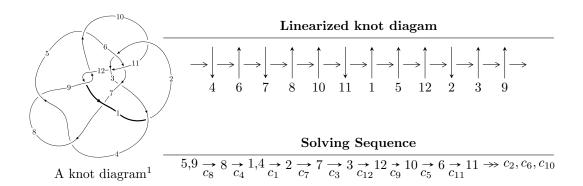
$12a_{0866} (K12a_{0866})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.24767 \times 10^{1341} u^{187} - 6.06121 \times 10^{1341} u^{186} + \dots + 1.20162 \times 10^{1340} b - 1.42251 \times 10^{1344}, \\ &- 1.08645 \times 10^{1344} u^{187} + 5.42636 \times 10^{1344} u^{186} + \dots + 1.18840 \times 10^{1343} a + 1.08070 \times 10^{1347}, \\ &u^{188} - 4 u^{187} + \dots + 7531 u - 989 \rangle \\ I_2^u &= \langle 5.47253 \times 10^{48} u^{40} + 2.46107 \times 10^{49} u^{39} + \dots + 2.70094 \times 10^{48} b - 2.27197 \times 10^{49}, \\ &5.87231 \times 10^{49} u^{40} + 3.06842 \times 10^{50} u^{39} + \dots + 1.35047 \times 10^{49} a + 1.26775 \times 10^{50}, \ u^{41} + 5 u^{40} + \dots + 17 u - 10^{49} u^{40} + 1.08070 \times 10^{49} u^{40} u^{40} + 1.08070 \times 10^{49} u^{40} u^{40}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 229 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.
$$I_1^u = \langle 1.25 \times 10^{1341} u^{187} - 6.06 \times 10^{1341} u^{186} + \dots + 1.20 \times 10^{1340} b - 1.42 \times 10^{1344}, -1.09 \times 10^{1344} u^{187} + 5.43 \times 10^{1344} u^{186} + \dots + 1.19 \times 10^{1343} a + 1.08 \times 10^{1347}, \ u^{188} - 4 u^{187} + \dots + 7531 u - 989 \rangle$$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 9.14209u^{187} - 45.6610u^{186} + \dots + 77974.1u - 9093.73 \\ -10.3833u^{187} + 50.4421u^{186} + \dots - 103634.u + 11838.3 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 16.1336u^{187} - 79.2255u^{186} + \dots + 152087.u - 17506.2 \\ -13.0510u^{187} + 63.5393u^{186} + \dots - 128670.u + 14714.0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 4.81314u^{187} - 19.8634u^{186} + \dots + 85954.6u - 9389.88 \\ -27.3580u^{187} + 135.878u^{186} + \dots - 241043.u + 27898.5 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -91.1154u^{187} + 440.842u^{186} + \dots - 922623.u + 105239. \\ -29.3795u^{187} + 141.566u^{186} + \dots - 304669.u + 34670.2 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 19.5253u^{187} - 96.1031u^{186} + \dots + 181608.u - 20932.0 \\ -10.3833u^{187} + 50.4421u^{186} + \dots - 103634.u + 11838.3 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -26.9895u^{187} + 133.796u^{186} + \dots - 103634.u + 11838.3 \\ 32.6104u^{187} - 161.781u^{186} + \dots + 288032.u - 33339.2 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -7.02113u^{187} + 30.1516u^{186} + \dots - 112632.u + 12396.8 \\ 35.4198u^{187} - 173.953u^{186} + \dots + 332397.u - 38206.8 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -28.6648u^{187} + 141.794u^{186} + \dots - 257959.u + 29772.2 \\ 8.27554u^{187} - 41.9809u^{186} + \dots + 63753.9u - 7503.36 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-481.352u^{187} + 2357.49u^{186} + \cdots 4.57027 \times 10^6u + 524827$.

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{188} + 6u^{187} + \dots - 20266u + 1447$
c_2	$u^{188} - 10u^{187} + \dots + 235u + 43$
<i>c</i> ₃	$u^{188} - 2u^{187} + \dots + 2896580u - 507209$
c_4, c_8	$u^{188} + 4u^{187} + \dots - 7531u - 989$
<i>C</i> ₅	$u^{188} + 2u^{187} + \dots + 11973792223u + 765934129$
<i>c</i> ₆	$u^{188} + u^{187} + \dots + 7u + 1$
	$u^{188} + 3u^{187} + \dots - 30u + 1$
c_9,c_{12}	$u^{188} - 7u^{187} + \dots + 192850u + 10363$
c_{10}	$u^{188} + 6u^{187} + \dots + 410u - 76$
c_{11}	$u^{188} - u^{187} + \dots + 41u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{188} + 40y^{187} + \dots - 47377738y + 2093809$
c_2	$y^{188} + 8y^{187} + \dots - 114049y + 1849$
<i>C</i> 3	$y^{188} - 58y^{187} + \dots + 8743433592384y + 257260969681$
c_4,c_8	$y^{188} - 128y^{187} + \dots - 18934183y + 978121$
c_5	$y^{188} - 48y^{187} + \dots + 2.08 \times 10^{18}y + 5.87 \times 10^{17}$
c_6	$y^{188} - 27y^{187} + \dots + 57y + 1$
C ₇	$y^{188} + 5y^{187} + \dots - 2302y + 1$
c_9, c_{12}	$y^{188} + 125y^{187} + \dots - 9867145482y + 107391769$
c_{10}	$y^{188} + 22y^{187} + \dots - 151228y + 5776$
c_{11}	$y^{188} + 29y^{187} + \dots - 229y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.932910 + 0.374890I		
a = 1.93328 + 0.53959I	0.26621 + 1.83399I	0
b = 1.123310 - 0.276983I		
u = -0.932910 - 0.374890I		
a = 1.93328 - 0.53959I	0.26621 - 1.83399I	0
b = 1.123310 + 0.276983I		
u = -0.996598 + 0.144886I		
a = -2.37463 - 0.07204I	1.61320 - 3.13498I	0
b = -0.661471 + 1.177300I		
u = -0.996598 - 0.144886I		
a = -2.37463 + 0.07204I	1.61320 + 3.13498I	0
b = -0.661471 - 1.177300I		
u = 0.800663 + 0.583733I		
a = 1.197290 + 0.283815I	-2.64474 - 0.80224I	0
b = 0.082533 + 0.797857I		
u = 0.800663 - 0.583733I		
a = 1.197290 - 0.283815I	-2.64474 + 0.80224I	0
b = 0.082533 - 0.797857I		
u = 0.280613 + 0.974237I		
a = -0.195986 + 0.061527I	-4.21564 + 6.12609I	0
b = -0.297082 - 1.268980I		
u = 0.280613 - 0.974237I		
a = -0.195986 - 0.061527I	-4.21564 - 6.12609I	0
b = -0.297082 + 1.268980I		
u = -0.953703 + 0.344085I		
a = -2.58886 - 0.58396I	-0.56636 - 3.02247I	0
b = -0.191327 + 0.971063I		
u = -0.953703 - 0.344085I		
a = -2.58886 + 0.58396I	-0.56636 + 3.02247I	0
b = -0.191327 - 0.971063I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.172844 + 0.966991I		
a = 0.0155280 - 0.0442956I	-0.12719 - 4.04432I	0
b = -0.626328 + 0.656072I		
u = 0.172844 - 0.966991I		
a = 0.0155280 + 0.0442956I	-0.12719 + 4.04432I	0
b = -0.626328 - 0.656072I		
u = 0.736916 + 0.723769I		
a = 0.000229 - 0.277822I	-4.93759 + 1.08711I	0
b = 0.366600 - 1.164660I		
u = 0.736916 - 0.723769I		
a = 0.000229 + 0.277822I	-4.93759 - 1.08711I	0
b = 0.366600 + 1.164660I		
u = -0.609610 + 0.748627I		
a = -0.262180 + 0.497281I	-3.68931 + 7.69977I	0
b = 0.497626 + 1.308700I		
u = -0.609610 - 0.748627I		
a = -0.262180 - 0.497281I	-3.68931 - 7.69977I	0
b = 0.497626 - 1.308700I		
u = -1.038000 + 0.080493I		
a = 2.46547 + 0.95386I	0.30068 - 2.24515I	0
b = 0.179638 - 1.089340I		
u = -1.038000 - 0.080493I		
a = 2.46547 - 0.95386I	0.30068 + 2.24515I	0
b = 0.179638 + 1.089340I		
u = -0.953690 + 0.069302I		
a = -2.55229 + 2.99071I	-0.07109 + 1.84615I	0
b = -0.062350 + 0.903689I		
u = -0.953690 - 0.069302I		
a = -2.55229 - 2.99071I	-0.07109 - 1.84615I	0
b = -0.062350 - 0.903689I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.247844 + 0.918350I		
a = 0.171410 + 0.124767I	-5.72199 - 3.82704I	0
b = 0.380055 - 1.188200I		
u = 0.247844 - 0.918350I		
a = 0.171410 - 0.124767I	-5.72199 + 3.82704I	0
b = 0.380055 + 1.188200I		
u = 1.016160 + 0.279333I		
a = -1.32792 - 1.12807I	-4.11608 + 5.09222I	0
b = -0.318385 - 1.351560I		
u = 1.016160 - 0.279333I		
a = -1.32792 + 1.12807I	-4.11608 - 5.09222I	0
b = -0.318385 + 1.351560I		
u = -0.942738 + 0.076772I		
a = 0.24442 + 1.97437I	-2.69291 - 5.56907I	0
b = 0.37388 + 2.54242I		
u = -0.942738 - 0.076772I		
a = 0.24442 - 1.97437I	-2.69291 + 5.56907I	0
b = 0.37388 - 2.54242I		
u = -0.931386 + 0.164279I		
a = 1.50354 - 1.63984I	-2.47084 + 4.49392I	0
b = 0.84771 - 1.76028I		
u = -0.931386 - 0.164279I		
a = 1.50354 + 1.63984I	-2.47084 - 4.49392I	0
b = 0.84771 + 1.76028I		
u = 1.016610 + 0.300180I		
a = -1.60567 - 0.80847I	0.40390 + 5.46386I	0
b = -0.80045 - 1.66492I		
u = 1.016610 - 0.300180I		
a = -1.60567 + 0.80847I	0.40390 - 5.46386I	0
b = -0.80045 + 1.66492I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.931355 + 0.126822I		
a = -1.14362 - 2.09217I	1.27100 - 2.30835I	0
b = -0.433763 + 0.940358I		
u = -0.931355 - 0.126822I		
a = -1.14362 + 2.09217I	1.27100 + 2.30835I	0
b = -0.433763 - 0.940358I		
u = -0.928997 + 0.042924I		
a = -2.65896 + 0.58032I	-0.32335 - 2.05968I	0
b = -0.235262 - 1.034350I		
u = -0.928997 - 0.042924I		
a = -2.65896 - 0.58032I	-0.32335 + 2.05968I	0
b = -0.235262 + 1.034350I		
u = -0.942354 + 0.524880I		
a = 1.80087 - 0.11794I	-2.65383 - 12.54390I	0
b = 0.86557 - 1.30655I		
u = -0.942354 - 0.524880I		
a = 1.80087 + 0.11794I	-2.65383 + 12.54390I	0
b = 0.86557 + 1.30655I		
u = -0.417946 + 1.000310I		
a = 0.027120 - 0.411580I	2.18370 - 2.82632I	0
b = 0.275988 + 0.383954I		
u = -0.417946 - 1.000310I		
a = 0.027120 + 0.411580I	2.18370 + 2.82632I	0
b = 0.275988 - 0.383954I		
u = 1.057050 + 0.242918I		
a = -1.070400 - 0.144920I	1.05193 + 5.23933I	0
b = -0.39783 - 1.39628I		
u = 1.057050 - 0.242918I		
a = -1.070400 + 0.144920I	1.05193 - 5.23933I	0
b = -0.39783 + 1.39628I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.237227 + 0.882104I		
a = -0.354769 - 0.663091I	-6.92090 - 6.38065I	0
b = -0.12411 + 1.42857I		
u = 0.237227 - 0.882104I		
a = -0.354769 + 0.663091I	-6.92090 + 6.38065I	0
b = -0.12411 - 1.42857I		
u = 1.090090 + 0.011000I		
a = 1.160750 - 0.408266I	3.78101 - 4.02611I	0
b = 0.381844 + 0.959733I		
u = 1.090090 - 0.011000I		
a = 1.160750 + 0.408266I	3.78101 + 4.02611I	0
b = 0.381844 - 0.959733I		
u = 0.914975 + 0.597866I		
a = 1.59622 - 0.03954I	-4.34659 + 4.04045I	0
b = 0.599089 + 1.063460I		
u = 0.914975 - 0.597866I		
a = 1.59622 + 0.03954I	-4.34659 - 4.04045I	0
b = 0.599089 - 1.063460I		
u = 1.093010 + 0.065407I		
a = -1.71754 - 0.37225I	4.18823 + 2.92442I	0
b = -0.809823 - 0.988272I		
u = 1.093010 - 0.065407I		
a = -1.71754 + 0.37225I	4.18823 - 2.92442I	0
b = -0.809823 + 0.988272I		
u = 0.066934 + 1.096880I		
a = 0.412070 + 0.213355I	-4.65014 - 0.13962I	0
b = -0.178244 - 1.170140I		
u = 0.066934 - 1.096880I		
a = 0.412070 - 0.213355I	-4.65014 + 0.13962I	0
b = -0.178244 + 1.170140I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.093090 + 0.173955I		
a = 2.04200 - 0.48788I	1.18880 + 11.58080I	0
b = 0.482888 + 1.167770I		
u = 1.093090 - 0.173955I		
a = 2.04200 + 0.48788I	1.18880 - 11.58080I	0
b = 0.482888 - 1.167770I		
u = -0.878264 + 0.721877I		
a = -1.126510 - 0.251981I	-2.79956 - 3.72194I	0
b = -0.515284 + 1.152270I		
u = -0.878264 - 0.721877I		
a = -1.126510 + 0.251981I	-2.79956 + 3.72194I	0
b = -0.515284 - 1.152270I		
u = -0.143077 + 0.849929I		
a = 0.242181 - 0.368221I	-8.11135 - 2.13818I	0
b = 0.14744 + 1.41971I		
u = -0.143077 - 0.849929I		
a = 0.242181 + 0.368221I	-8.11135 + 2.13818I	0
b = 0.14744 - 1.41971I		
u = 0.793452 + 0.299761I		
a = 1.35201 - 0.73462I	-1.41059 + 3.56442I	0
b = 0.418218 - 0.580742I		
u = 0.793452 - 0.299761I		
a = 1.35201 + 0.73462I	-1.41059 - 3.56442I	0
b = 0.418218 + 0.580742I		
u = 0.838506 + 0.050942I		
a = 0.246489 + 0.431691I	-5.30636 - 3.63476I	0
b = -0.05190 + 1.74333I		
u = 0.838506 - 0.050942I		
a = 0.246489 - 0.431691I	-5.30636 + 3.63476I	0
b = -0.05190 - 1.74333I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.797427 + 0.258233I		
a = 0.69037 - 1.29689I	-2.17733 + 3.18711I	0
b = 0.58984 - 1.47107I		
u = 0.797427 - 0.258233I		
a = 0.69037 + 1.29689I	-2.17733 - 3.18711I	0
b = 0.58984 + 1.47107I		
u = 0.038241 + 1.174580I		
a = -0.049450 - 0.293969I	-3.24404 - 6.81988I	0
b = -0.449129 + 1.321610I		
u = 0.038241 - 1.174580I		
a = -0.049450 + 0.293969I	-3.24404 + 6.81988I	0
b = -0.449129 - 1.321610I		
u = -0.737573 + 0.344825I		
a = -0.401872 + 0.424727I	0.314526 + 0.273439I	0
b = -0.542224 + 0.055030I		
u = -0.737573 - 0.344825I		
a = -0.401872 - 0.424727I	0.314526 - 0.273439I	0
b = -0.542224 - 0.055030I		
u = -0.760331 + 0.912279I		
a = -0.700304 - 0.833920I	-1.59398 - 4.71317I	0
b = -0.178329 + 0.739824I		
u = -0.760331 - 0.912279I		
a = -0.700304 + 0.833920I	-1.59398 + 4.71317I	0
b = -0.178329 - 0.739824I		
u = -0.792395 + 0.075302I		
a = 1.91632 + 0.06197I	0.88217 + 1.81809I	0
b = -0.303307 - 0.856990I		
u = -0.792395 - 0.075302I		
a = 1.91632 - 0.06197I	0.88217 - 1.81809I	0
b = -0.303307 + 0.856990I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.689860 + 0.992521I		
a = 0.246278 - 0.263116I	-3.48813 - 2.56118I	0
b = -0.267383 - 1.139260I		
u = -0.689860 - 0.992521I		
a = 0.246278 + 0.263116I	-3.48813 + 2.56118I	0
b = -0.267383 + 1.139260I		
u = 1.172210 + 0.333764I		
a = -1.166690 + 0.620790I	4.39351 + 2.17711I	0
b = -1.34470 + 0.69553I		
u = 1.172210 - 0.333764I		-
a = -1.166690 - 0.620790I	4.39351 - 2.17711I	0
b = -1.34470 - 0.69553I		
u = -1.055890 + 0.666769I		
a = 0.950237 + 0.098821I	0.490665 - 0.628637I	0
b = -0.101000 - 0.882782I		
u = -1.055890 - 0.666769I		
a = 0.950237 - 0.098821I	0.490665 + 0.628637I	0
b = -0.101000 + 0.882782I		
u = -1.233300 + 0.221792I		
a = -1.69296 + 0.01656I	4.86637 - 4.55618I	0
b = -1.376200 - 0.084632I		
u = -1.233300 - 0.221792I		
a = -1.69296 - 0.01656I	4.86637 + 4.55618I	0
b = -1.376200 + 0.084632I		
u = -1.210390 + 0.340081I		
a = -1.011680 + 0.639835I	-0.32590 - 4.89336I	0
b = -0.68903 + 1.48663I		
u = -1.210390 - 0.340081I		
a = -1.011680 - 0.639835I	-0.32590 + 4.89336I	0
b = -0.68903 - 1.48663I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.042559 + 1.272700I		
a = 0.106273 - 0.199339I	-4.3002 + 15.1636I	0
b = 0.446988 + 1.265610I		
u = -0.042559 - 1.272700I		
a = 0.106273 + 0.199339I	-4.3002 - 15.1636I	0
b = 0.446988 - 1.265610I		
u = 1.237330 + 0.318025I		
a = -1.63120 + 0.25335I	5.69770 + 5.54914I	0
b = -1.51362 - 0.10706I		
u = 1.237330 - 0.318025I		
a = -1.63120 - 0.25335I	5.69770 - 5.54914I	0
b = -1.51362 + 0.10706I		
u = 1.274920 + 0.121531I		
a = -1.328670 + 0.056009I	6.07502 + 0.48235I	0
b = -1.160930 + 0.104440I		
u = 1.274920 - 0.121531I		
a = -1.328670 - 0.056009I	6.07502 - 0.48235I	0
b = -1.160930 - 0.104440I		
u = 1.225570 + 0.390920I		
a = 1.242890 - 0.270708I	2.24094 + 7.27695I	0
b = 0.992814 - 0.260230I		
u = 1.225570 - 0.390920I		
a = 1.242890 + 0.270708I	2.24094 - 7.27695I	0
b = 0.992814 + 0.260230I		
u = -1.286800 + 0.063950I		
a = 0.33795 - 1.66749I	2.39969 + 0.70690I	0
b = -0.144268 - 0.703422I		
u = -1.286800 - 0.063950I		
a = 0.33795 + 1.66749I	2.39969 - 0.70690I	0
b = -0.144268 + 0.703422I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.136227 + 1.285270I		
a = 0.173581 + 0.197725I	-4.80765 - 6.38541I	0
b = 0.327236 - 1.141150I		
u = 0.136227 - 1.285270I		
a = 0.173581 - 0.197725I	-4.80765 + 6.38541I	0
b = 0.327236 + 1.141150I		
u = 0.702869 + 0.057996I		
a = -2.72893 + 0.77261I	-0.52183 + 10.48050I	0
b = 0.201167 + 0.662724I		
u = 0.702869 - 0.057996I		
a = -2.72893 - 0.77261I	-0.52183 - 10.48050I	0
b = 0.201167 - 0.662724I		
u = 1.288290 + 0.163301I		
a = -1.52727 - 0.61324I	5.08321 + 3.68372I	0
b = -0.964652 - 0.702479I		
u = 1.288290 - 0.163301I		
a = -1.52727 + 0.61324I	5.08321 - 3.68372I	0
b = -0.964652 + 0.702479I		
u = 0.625160 + 0.313756I		
a = 1.92785 + 0.16397I	-2.52291 - 0.24082I	0
b = 0.781365 + 0.542075I		
u = 0.625160 - 0.313756I		
a = 1.92785 - 0.16397I	-2.52291 + 0.24082I	0
b = 0.781365 - 0.542075I		
u = -1.275200 + 0.279077I		
a = 1.016160 - 0.230755I	0.97220 - 1.12401I	0
b = 0.216454 - 0.841733I		
u = -1.275200 - 0.279077I		
a = 1.016160 + 0.230755I	0.97220 + 1.12401I	0
b = 0.216454 + 0.841733I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.203870 + 0.514891I		
a = 1.66892 + 0.24257I	-2.72364 + 8.99909I	0
b = 0.669345 + 1.161300I		
u = 1.203870 - 0.514891I		
a = 1.66892 - 0.24257I	-2.72364 - 8.99909I	0
b = 0.669345 - 1.161300I		
u = 0.280944 + 0.624914I		
a = -0.397842 + 1.214640I	-0.33402 + 10.82870I	0
b = 0.677791 + 0.115239I		
u = 0.280944 - 0.624914I		
a = -0.397842 - 1.214640I	-0.33402 - 10.82870I	0
b = 0.677791 - 0.115239I		
u = -1.313350 + 0.066298I		
a = 0.503375 - 0.445082I	2.60885 + 0.38010I	0
b = 0.141304 + 0.011398I		
u = -1.313350 - 0.066298I		
a = 0.503375 + 0.445082I	2.60885 - 0.38010I	0
b = 0.141304 - 0.011398I		
u = 1.225930 + 0.487300I		
a = -1.73908 - 0.41691I	-3.78838 + 11.37000I	0
b = -0.255367 - 1.261240I		
u = 1.225930 - 0.487300I		
a = -1.73908 + 0.41691I	-3.78838 - 11.37000I	0
b = -0.255367 + 1.261240I		
u = -1.267900 + 0.369952I		
a = 1.45749 + 0.29255I	4.0219 - 14.5167I	0
b = 1.43189 + 0.09759I		
u = -1.267900 - 0.369952I		
a = 1.45749 - 0.29255I	4.0219 + 14.5167I	0
b = 1.43189 - 0.09759I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.243650 + 0.457547I		
a = 1.61596 - 0.57051I	-4.67811 - 2.62718I	0
b = 0.386573 - 1.282890I		
u = -1.243650 - 0.457547I		
a = 1.61596 + 0.57051I	-4.67811 + 2.62718I	0
b = 0.386573 + 1.282890I		
u = 1.344450 + 0.052059I		
a = 0.846673 - 0.926095I	3.82994 + 7.06531I	0
b = 0.685074 - 0.303345I		
u = 1.344450 - 0.052059I		
a = 0.846673 + 0.926095I	3.82994 - 7.06531I	0
b = 0.685074 + 0.303345I		
u = -0.298814 + 0.582284I		
a = 0.501492 + 0.589634I	1.37252 - 2.34420I	0
b = -0.734903 + 0.253216I		
u = -0.298814 - 0.582284I		
a = 0.501492 - 0.589634I	1.37252 + 2.34420I	0
b = -0.734903 - 0.253216I		
u = 0.524688 + 1.240660I		
a = -0.184972 + 0.491833I	0.82739 - 5.64505I	0
b = 0.286579 - 0.954381I		
u = 0.524688 - 1.240660I		
a = -0.184972 - 0.491833I	0.82739 + 5.64505I	0
b = 0.286579 + 0.954381I		
u = -1.316870 + 0.332700I		
a = -1.119410 + 0.109239I	3.41416 - 5.99433I	0
b = -0.970468 - 0.052702I		
u = -1.316870 - 0.332700I		
a = -1.119410 - 0.109239I	3.41416 + 5.99433I	0
b = -0.970468 + 0.052702I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.169870 + 0.702461I		
a = 0.872281 + 0.345641I	0.279407 - 1.380150I	0
b = 0.173247 - 1.099880I		
u = -1.169870 - 0.702461I		
a = 0.872281 - 0.345641I	0.279407 + 1.380150I	0
b = 0.173247 + 1.099880I		
u = -1.335590 + 0.297697I		
a = 0.895012 + 0.271081I	6.92609 + 1.69202I	0
b = 0.864981 + 0.579635I		
u = -1.335590 - 0.297697I		
a = 0.895012 - 0.271081I	6.92609 - 1.69202I	0
b = 0.864981 - 0.579635I		
u = 0.464000 + 0.412112I		
a = 1.170960 - 0.452696I	-2.20672 - 0.16388I	0
b = 0.555009 - 0.071113I		
u = 0.464000 - 0.412112I		
a = 1.170960 + 0.452696I	-2.20672 + 0.16388I	0
b = 0.555009 + 0.071113I		
u = 0.054521 + 0.612898I		
a = 0.801353 - 0.681042I	-1.92177 - 2.72881I	0
b = -0.276445 + 1.160900I		
u = 0.054521 - 0.612898I		
a = 0.801353 + 0.681042I	-1.92177 + 2.72881I	0
b = -0.276445 - 1.160900I		
u = 1.262480 + 0.593621I		
a = -1.379590 + 0.129524I	3.13171 + 9.71662I	0
b = -0.874746 - 1.004710I		
u = 1.262480 - 0.593621I		
a = -1.379590 - 0.129524I	3.13171 - 9.71662I	0
b = -0.874746 + 1.004710I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.039229 + 0.602811I		
a = 0.724272 - 1.129440I	-1.45671 - 3.45841I	0
b = 0.455629 - 0.132455I		
u = -0.039229 - 0.602811I		
a = 0.724272 + 1.129440I	-1.45671 + 3.45841I	0
b = 0.455629 + 0.132455I		
u = 0.601553		
a = -3.51220	1.59492	0
b = -1.29166		
u = -0.322276 + 0.501776I		
a = 0.114286 + 0.849844I	-1.29729 - 5.33922I	0
b = 0.875562 + 0.623564I		
u = -0.322276 - 0.501776I		
a = 0.114286 - 0.849844I	-1.29729 + 5.33922I	0
b = 0.875562 - 0.623564I		
u = 1.337300 + 0.426723I		
a = -1.312820 - 0.281781I	2.29872 + 6.76585I	0
b = -0.62436 - 1.32387I		
u = 1.337300 - 0.426723I		
a = -1.312820 + 0.281781I	2.29872 - 6.76585I	0
b = -0.62436 + 1.32387I		
u = 1.358890 + 0.366542I		
a = 0.942302 - 0.258572I	7.53133 + 7.30721I	0
b = 0.910493 - 0.158063I		
u = 1.358890 - 0.366542I		
a = 0.942302 + 0.258572I	7.53133 - 7.30721I	0
b = 0.910493 + 0.158063I		
u = 1.054390 + 0.938320I		
a = 0.789677 - 0.214326I	-2.91575 + 3.65835I	0
b = 0.119978 + 0.787453I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.054390 - 0.938320I		
a = 0.789677 + 0.214326I	-2.91575 - 3.65835I	0
b = 0.119978 - 0.787453I		
u = -0.540970 + 0.215038I		
a = 2.19712 + 0.25264I	0.803133 + 0.043679I	0
b = -0.340833 - 0.221987I		
u = -0.540970 - 0.215038I		
a = 2.19712 - 0.25264I	0.803133 - 0.043679I	0
b = -0.340833 + 0.221987I		
u = 1.28045 + 0.60963I		
a = 1.158220 + 0.241375I	-0.94409 + 6.18960I	0
b = 0.138029 + 0.859303I		
u = 1.28045 - 0.60963I		
a = 1.158220 - 0.241375I	-0.94409 - 6.18960I	0
b = 0.138029 - 0.859303I		
u = -1.39339 + 0.30307I		
a = -0.742021 - 0.265368I	5.02981 - 0.81679I	0
b = -0.995971 - 0.080948I		
u = -1.39339 - 0.30307I		
a = -0.742021 + 0.265368I	5.02981 + 0.81679I	0
b = -0.995971 + 0.080948I		
u = 0.15925 + 1.41721I		
a = -0.0599314 + 0.1206730I	-5.41255 + 4.51169I	0
b = -0.238860 - 1.170030I		
u = 0.15925 - 1.41721I		
a = -0.0599314 - 0.1206730I	-5.41255 - 4.51169I	0
b = -0.238860 + 1.170030I		
u = -1.08163 + 0.97988I		
a = -0.360481 - 0.385020I	2.46803 - 2.74768I	0
b = -0.289498 + 0.674799I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.08163 - 0.97988I		
a = -0.360481 + 0.385020I	2.46803 + 2.74768I	0
b = -0.289498 - 0.674799I		
u = 1.35294 + 0.57563I		
a = -1.46670 - 0.22727I	0.85959 + 12.91490I	0
b = -0.67192 - 1.47492I		
u = 1.35294 - 0.57563I		
a = -1.46670 + 0.22727I	0.85959 - 12.91490I	0
b = -0.67192 + 1.47492I		
u = -1.35338 + 0.61297I		
a = 1.139680 + 0.050554I	5.51021 - 3.73980I	0
b = 0.607537 - 1.012880I		
u = -1.35338 - 0.61297I		
a = 1.139680 - 0.050554I	5.51021 + 3.73980I	0
b = 0.607537 + 1.012880I		
u = 1.33863 + 0.65073I		
a = 1.208010 - 0.111880I	4.03794 + 12.50820I	0
b = 0.516267 + 1.272760I		
u = 1.33863 - 0.65073I		
a = 1.208010 + 0.111880I	4.03794 - 12.50820I	0
b = 0.516267 - 1.272760I		
u = 1.36098 + 0.62304I		
a = 1.370230 + 0.144426I	-0.89606 + 12.95830I	0
b = 0.580599 + 1.251450I		
u = 1.36098 - 0.62304I		
a = 1.370230 - 0.144426I	-0.89606 - 12.95830I	0
b = 0.580599 - 1.251450I		
u = -1.42826 + 0.48916I		
a = -1.330240 + 0.477275I	1.04356 - 11.46520I	0
b = -0.67112 + 1.33613I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.42826 - 0.48916I		
a = -1.330240 - 0.477275I	1.04356 + 11.46520I	0
b = -0.67112 - 1.33613I		
u = -1.38286 + 0.61148I		
a = 1.41096 - 0.19613I	-0.1054 - 21.6726I	0
b = 0.67536 - 1.40823I		
u = -1.38286 - 0.61148I		
a = 1.41096 + 0.19613I	-0.1054 + 21.6726I	0
b = 0.67536 + 1.40823I		
u = -1.29383 + 0.79073I		
a = -0.841999 - 0.245615I	1.13538 - 6.24850I	0
b = -0.52223 + 1.31926I		
u = -1.29383 - 0.79073I		
a = -0.841999 + 0.245615I	1.13538 + 6.24850I	0
b = -0.52223 - 1.31926I		
u = 1.53115 + 0.11320I		
a = 0.395620 + 1.104480I	4.64027 + 6.10938I	0
b = 0.133427 + 0.864948I		
u = 1.53115 - 0.11320I		
a = 0.395620 - 1.104480I	4.64027 - 6.10938I	0
b = 0.133427 - 0.864948I		
u = -0.460119		
a = 1.08441	1.05182	0
b = -0.340547		
u = 1.18740 + 1.01171I		
a = 0.277458 - 0.364671I	1.05389 - 5.18007I	0
b = 0.324161 + 0.832632I		
u = 1.18740 - 1.01171I		
a = 0.277458 + 0.364671I	1.05389 + 5.18007I	0
b = 0.324161 - 0.832632I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.45823 + 0.64649I		
a = -1.112750 + 0.245989I	-0.52017 - 11.56780I	0
b = -0.55912 + 1.32443I		
u = -1.45823 - 0.64649I		
a = -1.112750 - 0.245989I	-0.52017 + 11.56780I	0
b = -0.55912 - 1.32443I		
u = 0.119530 + 0.331870I		
a = 2.80516 - 0.23910I	-1.75110 - 2.62820I	0. + 3.67631I
b = -0.112247 + 1.282410I		
u = 0.119530 - 0.331870I		
a = 2.80516 + 0.23910I	-1.75110 + 2.62820I	0 3.67631I
b = -0.112247 - 1.282410I		
u = -0.245713 + 0.186551I		
a = 1.072790 - 0.609357I	0.64720 - 2.34140I	-3.27818 - 7.06005I
b = -0.603961 + 0.811619I		
u = -0.245713 - 0.186551I		
a = 1.072790 + 0.609357I	0.64720 + 2.34140I	-3.27818 + 7.06005I
b = -0.603961 - 0.811619I		
u = 0.278311 + 0.042481I		
a = -1.24160 + 5.33275I	1.30742 - 4.02675I	17.7258 + 15.4969I
b = 0.267518 + 0.061677I		
u = 0.278311 - 0.042481I		
a = -1.24160 - 5.33275I	1.30742 + 4.02675I	17.7258 - 15.4969I
b = 0.267518 - 0.061677I		
u = 0.226705 + 0.102402I		
a = 1.94999 - 3.98373I	-1.31537 + 3.32354I	0.86905 - 9.02412I
b = -0.214072 - 0.668266I		
u = 0.226705 - 0.102402I		
a = 1.94999 + 3.98373I	-1.31537 - 3.32354I	0.86905 + 9.02412I
b = -0.214072 + 0.668266I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.77517 + 0.17217I		
a = -0.001781 - 0.213150I	2.46997 + 0.10098I	0
b = -0.191134 - 0.777223I		
u = -1.77517 - 0.17217I		
a = -0.001781 + 0.213150I	2.46997 - 0.10098I	0
b = -0.191134 + 0.777223I		
u = 1.71550 + 0.63147I		
a = -0.512041 - 0.282629I	-1.71587 + 6.53925I	0
b = -0.208442 - 1.305870I		
u = 1.71550 - 0.63147I		
a = -0.512041 + 0.282629I	-1.71587 - 6.53925I	0
b = -0.208442 + 1.305870I		
u = -0.018053 + 0.164185I		
a = -2.92803 - 1.90416I	1.16401 + 2.73937I	17.4815 - 8.7514I
b = -0.798884 - 0.486687I		
u = -0.018053 - 0.164185I		
a = -2.92803 + 1.90416I	1.16401 - 2.73937I	17.4815 + 8.7514I
b = -0.798884 + 0.486687I		
u = 2.27672 + 0.74106I		
a = -0.063049 - 0.163872I	1.22851 - 7.30464I	0
b = 0.154434 - 0.903527I		
u = 2.27672 - 0.74106I		
a = -0.063049 + 0.163872I	1.22851 + 7.30464I	0
b = 0.154434 + 0.903527I		

$$\begin{array}{c} \text{II. } I_2^u = \\ \langle 5.47 \times 10^{48} u^{40} + 2.46 \times 10^{49} u^{39} + \cdots + 2.70 \times 10^{48} b - 2.27 \times 10^{49}, \ 5.87 \times 10^{49} u^{40} + \\ 3.07 \times 10^{50} u^{39} + \cdots + 1.35 \times 10^{49} a + 1.27 \times 10^{50}, \ u^{41} + 5 u^{40} + \cdots + 17 u - 5 \rangle \end{array}$$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -4.34835u^{40} - 22.7212u^{39} + \dots + 0.998293u - 9.38747 \\ -2.02616u^{40} - 9.11191u^{39} + \dots - 36.9962u + 8.41178 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -1.75510u^{40} - 10.2375u^{39} + \dots + 23.8288u - 10.8108 \\ -2.99892u^{40} - 14.1358u^{39} + \dots - 38.6567u + 7.42222 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -1.21832u^{40} - 6.85436u^{39} + \dots + 9.36014u - 7.70394 \\ -1.23069u^{40} - 7.60457u^{39} + \dots + 19.7911u - 8.46168 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 9.11101u^{40} + 53.1976u^{39} + \dots + 19.7911u - 8.46168 \\ 0.0824971u^{40} - 0.491234u^{39} + \dots + 17.3221u - 1.61790 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -2.32219u^{40} - 13.6093u^{39} + \dots + 37.9945u - 17.7993 \\ -2.02616u^{40} - 9.11191u^{39} + \dots - 36.9962u + 8.41178 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -2.24699u^{40} - 14.4754u^{39} + \dots + 53.3138u - 17.0096 \\ -0.389983u^{40} - 5.11971u^{39} + \dots + 75.9990u - 23.5898 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.178614u^{40} + 0.528432u^{39} + \dots - 12.9226u + 9.05269 \\ -3.34438u^{40} - 14.6337u^{39} + \dots - 76.2031u + 21.1434 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2.65126u^{40} - 16.2030u^{39} + \dots + 50.7181u - 17.4322 \\ -3.17298u^{40} - 16.6041u^{39} + \dots + 11.2831u - 10.6264 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $32.5963u^{40} + 190.704u^{39} + \cdots 515.049u + 237.460$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{41} - 9u^{40} + \dots - 2u + 1$
c_2	$u^{41} + 5u^{40} + \dots - u + 1$
c_3	$u^{41} + 3u^{40} + \dots - 4u - 1$
c_4	$u^{41} - 5u^{40} + \dots + 17u + 5$
<i>C</i> ₅	$u^{41} - u^{40} + \dots - 21u - 47$
	$u^{41} - 2u^{40} + \dots + u - 1$
c_7	$u^{41} + 4u^{40} + \dots + 16u - 1$
<i>C</i> ₈	$u^{41} + 5u^{40} + \dots + 17u - 5$
c_9	$u^{41} + 10u^{40} + \dots + 60u + 5$
c_{10}	$u^{41} - 3u^{40} + \dots + u - 1$
c_{11}	$u^{41} + 13u^{39} + \dots + 15u + 1$
c_{12}	$u^{41} - 10u^{40} + \dots + 60u - 5$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{41} + 17y^{40} + \dots - 32y - 1$
c_2	$y^{41} + 21y^{40} + \dots + 11y - 1$
c_3	$y^{41} - 5y^{40} + \dots - 18y - 1$
c_4, c_8	$y^{41} - 35y^{40} + \dots + 249y - 25$
<i>c</i> ₅	$y^{41} - 15y^{40} + \dots + 253y - 2209$
<i>C</i> ₆	$y^{41} - 10y^{40} + \dots - 7y - 1$
<i>C</i> ₇	$y^{41} + 2y^{40} + \dots + 44y - 1$
c_9,c_{12}	$y^{41} + 38y^{40} + \dots - 660y - 25$
c_{10}	$y^{41} + 27y^{40} + \dots + 7y - 1$
c_{11}	$y^{41} + 26y^{40} + \dots - 89y - 1$

(vi) Complex Volumes and Cusp Shapes

u = -0.957488 + 0.379503I		
a = 2.35367 + 0.52228I -0.3	4545 - 11.90450I	3.63394 + 11.58040I
b = 0.557089 - 0.972886I		
u = -0.957488 - 0.379503I		
a = 2.35367 - 0.52228I -0.3	4545 + 11.90450I	3.63394 - 11.58040I
b = 0.557089 + 0.972886I		
u = 0.902045 + 0.193438I		
a = -0.82325 + 1.36961I 1.3	18581 + 2.31710I	-12.52482 + 3.65064I
b = -0.415853 - 0.921908I		
u = 0.902045 - 0.193438I		
a = -0.82325 - 1.36961I 1.3	18581 - 2.31710I	-12.52482 - 3.65064I
b = -0.415853 + 0.921908I		
u = -0.600971 + 0.897471I		
a = 0.181515 - 0.327165I - 3.9	97086 - 1.68855I	-1.70588 + 1.19800I
b = -0.305844 - 1.117910I		
u = -0.600971 - 0.897471I		
a = 0.181515 + 0.327165I -3.9	97086 + 1.68855I	-1.70588 - 1.19800I
b = -0.305844 + 1.117910I		
u = 0.915027 + 0.067011I		
a = 2.53869 + 1.82320I -0.3	13305 - 1.82571I	-18.9424 + 7.5213I
b = 0.086010 + 0.912256I		
u = 0.915027 - 0.067011I		
a = 2.53869 - 1.82320I -0.3	13305 + 1.82571I	-18.9424 - 7.5213I
b = 0.086010 - 0.912256I		
u = -0.876792 + 0.020099I		
a = 0.92648 + 2.12882I -2.9	92904 - 5.26176I	-6.54221 + 2.35934I
b = 0.52039 + 2.38106I		
u = -0.876792 - 0.020099I		
a = 0.92648 - 2.12882I -2.9	92904 + 5.26176I	-6.54221 - 2.35934I
b = 0.52039 - 2.38106I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.080578 + 1.146840I		
a = -0.185404 + 0.145685I	-4.49071 + 5.34842I	0 4.75350I
b = -0.279617 - 1.207800I		
u = 0.080578 - 1.146840I		
a = -0.185404 - 0.145685I	-4.49071 - 5.34842I	0. + 4.75350I
b = -0.279617 + 1.207800I		
u = 0.777295 + 0.334272I		
a = 2.08326 - 1.96810I	-0.77633 + 2.67541I	8.96357 + 8.62242I
b = 0.120473 + 1.069180I		
u = 0.777295 - 0.334272I		
a = 2.08326 + 1.96810I	-0.77633 - 2.67541I	8.96357 - 8.62242I
b = 0.120473 - 1.069180I		
u = 0.842476 + 0.857852I		
a = 0.896966 - 0.692070I	-1.70268 + 4.41930I	0
b = 0.100260 + 0.735844I		
u = 0.842476 - 0.857852I		
a = 0.896966 + 0.692070I	-1.70268 - 4.41930I	0
b = 0.100260 - 0.735844I		
u = -0.898806 + 0.815996I		
a = -1.081860 - 0.480367I	-3.03395 - 4.79635I	0. + 10.81450I
b = -0.451234 + 0.940610I		
u = -0.898806 - 0.815996I		
a = -1.081860 + 0.480367I	-3.03395 + 4.79635I	0 10.81450I
b = -0.451234 - 0.940610I		
u = -1.247800 + 0.264420I		
a = -1.63921 + 0.06906I	4.55317 - 5.23518I	0
b = -1.318150 + 0.162838I		
u = -1.247800 - 0.264420I		
a = -1.63921 - 0.06906I	4.55317 + 5.23518I	0
b = -1.318150 - 0.162838I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.257460 + 0.221112I		
a = -0.592703 + 0.966419I	-1.32077 - 5.47563I	0
b = -0.22864 + 1.73271I		
u = -1.257460 - 0.221112I		
a = -0.592703 - 0.966419I	-1.32077 + 5.47563I	0
b = -0.22864 - 1.73271I		
u = 0.710753		
a = -3.32241	1.94586	20.8440
b = -1.08583		
u = 1.298340 + 0.221730I		
a = -0.875411 + 0.246688I	4.71356 + 0.44480I	0
b = -1.013700 + 0.239474I		
u = 1.298340 - 0.221730I		
a = -0.875411 - 0.246688I	4.71356 - 0.44480I	0
b = -1.013700 - 0.239474I		
u = -1.399870 + 0.160763I		
a = -0.528539 + 0.784957I	5.62801 - 5.67625I	0
b = -0.150944 + 0.172690I		
u = -1.399870 - 0.160763I		
a = -0.528539 - 0.784957I	5.62801 + 5.67625I	0
b = -0.150944 - 0.172690I		
u = -0.287660 + 0.470566I		
a = -0.75026 + 1.85561I	1.03875 + 3.74024I	2.84295 + 0.14200I
b = 0.239144 - 0.476386I		
u = -0.287660 - 0.470566I		
a = -0.75026 - 1.85561I	1.03875 - 3.74024I	2.84295 - 0.14200I
b = 0.239144 + 0.476386I		
u = 1.47809 + 0.10591I		
a = -0.009946 + 0.952592I	1.85002 - 0.24383I	0
b = -0.179536 + 0.836799I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.47809 - 0.10591I		
a = -0.009946 - 0.952592I	1.85002 + 0.24383I	0
b = -0.179536 - 0.836799I		
u = 1.33297 + 0.67769I		
a = -0.923321 + 0.107847I	1.10505 + 5.99048I	0
b = -0.52936 - 1.31394I		
u = 1.33297 - 0.67769I		
a = -0.923321 - 0.107847I	1.10505 - 5.99048I	0
b = -0.52936 + 1.31394I		
u = -1.41290 + 0.57681I		
a = -1.273070 + 0.300890I	0.19751 - 11.46450I	0
b = -0.59202 + 1.33662I		
u = -1.41290 - 0.57681I		
a = -1.273070 - 0.300890I	0.19751 + 11.46450I	0
b = -0.59202 - 1.33662I		
u = 0.427119 + 0.158906I		
a = -1.11086 - 1.56410I	-6.10107 + 4.02054I	-5.00352 - 5.41019I
b = -0.03645 - 1.60697I		
u = 0.427119 - 0.158906I		
a = -1.11086 + 1.56410I	-6.10107 - 4.02054I	-5.00352 + 5.41019I
b = -0.03645 + 1.60697I		
u = 0.072906 + 0.399103I		
a = -0.044162 - 0.613200I	0.66271 + 2.77158I	-0.97313 - 11.19340I
b = -0.722169 - 0.597689I		
u = 0.072906 - 0.399103I		
a = -0.044162 + 0.613200I	0.66271 - 2.77158I	-0.97313 + 11.19340I
b = -0.722169 + 0.597689I		
u = -2.04248 + 0.73394I		
a = -0.181379 + 0.156175I	1.25143 + 7.15700I	0
b = 0.143051 + 0.884801I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -2.04248 - 0.73394I		
a = -0.181379 - 0.156175I	1.25143 - 7.15700I	0
b = 0.143051 - 0.884801I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{41} - 9u^{40} + \dots - 2u + 1)(u^{188} + 6u^{187} + \dots - 20266u + 1447)$
c_2	$(u^{41} + 5u^{40} + \dots - u + 1)(u^{188} - 10u^{187} + \dots + 235u + 43)$
c_3	$(u^{41} + 3u^{40} + \dots - 4u - 1)(u^{188} - 2u^{187} + \dots + 2896580u - 507209)$
c_4	$(u^{41} - 5u^{40} + \dots + 17u + 5)(u^{188} + 4u^{187} + \dots - 7531u - 989)$
c_5	$(u^{41} - u^{40} + \dots - 21u - 47)$ $\cdot (u^{188} + 2u^{187} + \dots + 11973792223u + 765934129)$
c_6	$(u^{41} - 2u^{40} + \dots + u - 1)(u^{188} + u^{187} + \dots + 7u + 1)$
c_7	$(u^{41} + 4u^{40} + \dots + 16u - 1)(u^{188} + 3u^{187} + \dots - 30u + 1)$
c_8	$(u^{41} + 5u^{40} + \dots + 17u - 5)(u^{188} + 4u^{187} + \dots - 7531u - 989)$
c_9	$(u^{41} + 10u^{40} + \dots + 60u + 5)(u^{188} - 7u^{187} + \dots + 192850u + 10363)$
c_{10}	$(u^{41} - 3u^{40} + \dots + u - 1)(u^{188} + 6u^{187} + \dots + 410u - 76)$
c_{11}	$(u^{41} + 13u^{39} + \dots + 15u + 1)(u^{188} - u^{187} + \dots + 41u + 1)$
c_{12}	$(u^{41} - 10u^{40} + \dots + 60u - 5)(u^{188} - 7u^{187} + \dots + 192850u + 10363)$ 34

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{41} + 17y^{40} + \dots - 32y - 1)$ $\cdot (y^{188} + 40y^{187} + \dots - 47377738y + 2093809)$
c_2	$ (y^{41} + 21y^{40} + \dots + 11y - 1)(y^{188} + 8y^{187} + \dots - 114049y + 1849) $
c_3	$(y^{41} - 5y^{40} + \dots - 18y - 1)$ $\cdot (y^{188} - 58y^{187} + \dots + 8743433592384y + 257260969681)$
c_4, c_8	$(y^{41} - 35y^{40} + \dots + 249y - 25)$ $\cdot (y^{188} - 128y^{187} + \dots - 18934183y + 978121)$
c_5	$(y^{41} - 15y^{40} + \dots + 253y - 2209)$ $\cdot (y^{188} - 48y^{187} + \dots + 2.08 \times 10^{18}y + 5.87 \times 10^{17})$
c_6	$y^{41} - 10y^{40} + \dots - 7y - 1)(y^{188} - 27y^{187} + \dots + 57y + 1)$
C ₇	$(y^{41} + 2y^{40} + \dots + 44y - 1)(y^{188} + 5y^{187} + \dots - 2302y + 1)$
c_9,c_{12}	$(y^{41} + 38y^{40} + \dots - 660y - 25)$ $\cdot (y^{188} + 125y^{187} + \dots - 9867145482y + 107391769)$
c_{10}	$(y^{41} + 27y^{40} + \dots + 7y - 1)(y^{188} + 22y^{187} + \dots - 151228y + 5776)$
c_{11}	$(y^{41} + 26y^{40} + \dots - 89y - 1)(y^{188} + 29y^{187} + \dots - 229y + 1)$