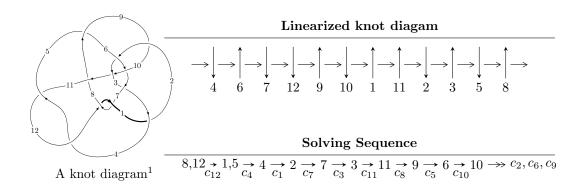
$12a_{0887} (K12a_{0887})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -7.22780 \times 10^{1306} u^{189} + 2.45986 \times 10^{1306} u^{188} + \dots + 1.66697 \times 10^{1306} b - 2.31380 \times 10^{1310}, \\ & 6.30404 \times 10^{1315} u^{189} + 1.68808 \times 10^{1315} u^{188} + \dots + 5.96446 \times 10^{1314} a - 5.48078 \times 10^{1319}, \\ & u^{190} + 67 u^{188} + \dots - 138006 u - 17447 \rangle \\ I_2^u &= \langle 9.76518 \times 10^{48} u^{45} + 1.28953 \times 10^{49} u^{44} + \dots + 7.60878 \times 10^{48} b - 1.58720 \times 10^{49}, \\ & 4.78561 \times 10^{49} u^{45} + 3.77004 \times 10^{49} u^{44} + \dots + 1.52176 \times 10^{49} a - 4.81006 \times 10^{49}, \ u^{46} + u^{45} + \dots - 2u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 236 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.
$$I_1^u = \langle -7.23 \times 10^{1306} u^{189} + 2.46 \times 10^{1306} u^{188} + \dots + 1.67 \times 10^{1306} b - 2.31 \times 10^{1310}, \ 6.30 \times 10^{1315} u^{189} + 1.69 \times 10^{1315} u^{188} + \dots + 5.96 \times 10^{1314} a - 5.48 \times 10^{1319}, \ u^{190} + 67 u^{188} + \dots - 138006 u - 17447 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} -10.5693u^{189} - 2.83023u^{188} + \dots + 945060.u + 91890.7 \\ 4.33589u^{189} - 1.47565u^{188} + \dots + 15990.1u + 13880.3 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -6.23344u^{189} - 4.30588u^{188} + \dots + 961050.u + 105771. \\ 4.33589u^{189} - 1.47565u^{188} + \dots + 15990.1u + 13880.3 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 10.7355u^{189} + 14.2863u^{188} + \dots + 2.78517 \times 10^{6}u - 323181. \\ -4.61634u^{189} - 0.542985u^{188} + \dots + 199375.u + 10795.3 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -8.78606u^{189} - 1.37271u^{188} + \dots + 631875.u + 56427.2 \\ 5.22398u^{189} - 1.52033u^{188} + \dots - 15094.2u + 12049.1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -5.04397u^{189} - 0.399550u^{188} + \dots + 172980.u + 5773.97 \\ 1.95804u^{189} - 1.48337u^{188} + \dots + 114320.u + 22056.1 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 23.6821u^{189} - 2.17840u^{188} + \dots - 309586.u + 26789.7 \\ -2.09425u^{189} + 0.305661u^{188} + \dots - 172398.u - 26443.0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 15.2253u^{189} + 0.780421u^{188} + \dots - 624926.u - 33479.8 \\ -0.887353u^{189} + 6.08852u^{188} + \dots - 1.08620 \times 10^{6}u - 143525. \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -5.78169u^{189} - 5.37501u^{188} + \dots + 1.18082 \times 10^{6}u + 131470. \\ 4.03607u^{189} - 1.68248u^{188} + \dots + 92118.3u + 24863.1 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-4.73829u^{189} 0.820069u^{188} + \cdots + 142554.u + 11834.1$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{190} + 5u^{189} + \dots + 6665u + 199$
c_2	$u^{190} - 9u^{189} + \dots - 4u + 1$
c_3	$u^{190} - 2u^{189} + \dots + 670900166u - 53862673$
c_4, c_{11}	$u^{190} + 67u^{188} + \dots + 138006u - 17447$
<i>C</i> 5	$u^{190} + 2u^{189} + \dots - 670900166u - 53862673$
c_6	$u^{190} + 9u^{189} + \dots + 4u + 1$
c_7, c_{12}	$u^{190} + 67u^{188} + \dots - 138006u - 17447$
c ₈	$u^{190} - 5u^{189} + \dots - 6665u + 199$
<i>c</i> 9	$u^{190} - u^{189} + \dots + 29u - 1$
c ₁₀	$u^{190} + u^{189} + \dots - 29u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_8	$y^{190} - 19y^{189} + \dots + 1497025y + 39601$
c_2, c_6	$y^{190} - 23y^{189} + \dots - 252y + 1$
c_3, c_5	$y^{190} - 88y^{189} + \dots - 175498183281035406y + 2901187542704929$
c_4, c_7, c_{11} c_{12}	$y^{190} + 134y^{189} + \dots + 46421594y + 304397809$
c_9, c_{10}	$y^{190} + 23y^{189} + \dots - 149y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.864219 + 0.506539I		
a = 0.21689 + 2.29034I	3.78459 - 4.20222I	0
b = -0.186777 - 1.246840I		
u = -0.864219 - 0.506539I		
a = 0.21689 - 2.29034I	3.78459 + 4.20222I	0
b = -0.186777 + 1.246840I		
u = -0.638373 + 0.767389I		
a = 0.60552 - 2.35236I	5.21796 - 2.67365I	0
b = 0.080709 + 1.272450I		
u = -0.638373 - 0.767389I		
a = 0.60552 + 2.35236I	5.21796 + 2.67365I	0
b = 0.080709 - 1.272450I		
u = 0.031691 + 0.990579I		
a = -1.37887 + 0.60361I	-1.80089 - 1.83392I	0
b = -0.698418 - 1.148540I		
u = 0.031691 - 0.990579I		
a = -1.37887 - 0.60361I	-1.80089 + 1.83392I	0
b = -0.698418 + 1.148540I		
u = -0.340233 + 0.924142I		
a = -1.17546 + 1.01173I	2.65028 - 5.98733I	0
b = -0.84402 - 1.34401I		
u = -0.340233 - 0.924142I		
a = -1.17546 - 1.01173I	2.65028 + 5.98733I	0
b = -0.84402 + 1.34401I		
u = -0.098449 + 0.972581I		
a = -0.58409 + 1.58122I	2.01485 - 3.55741I	0
b = -0.16055 - 1.59671I		
u = -0.098449 - 0.972581I		
a = -0.58409 - 1.58122I	2.01485 + 3.55741I	0
b = -0.16055 + 1.59671I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.119296 + 0.965852I		
a = 0.017329 - 0.417748I	0.94548 + 7.07618I	0
b = 0.71740 + 2.20998I		
u = 0.119296 - 0.965852I		
a = 0.017329 + 0.417748I	0.94548 - 7.07618I	0
b = 0.71740 - 2.20998I		
u = 0.613232 + 0.823675I		
a = 0.599902 + 1.103490I	0.64534 + 2.48885I	0
b = 0.354486 - 1.137680I		
u = 0.613232 - 0.823675I		
a = 0.599902 - 1.103490I	0.64534 - 2.48885I	0
b = 0.354486 + 1.137680I		
u = 0.565862 + 0.787510I		
a = 0.838198 + 0.988520I	0.82965 + 2.65878I	0
b = 0.612638 - 1.195610I		
u = 0.565862 - 0.787510I		
a = 0.838198 - 0.988520I	0.82965 - 2.65878I	0
b = 0.612638 + 1.195610I		
u = -0.102463 + 0.962021I		
a = -1.50913 - 0.91650I	-3.02895 - 2.54150I	0
b = -0.282652 + 0.856538I		
u = -0.102463 - 0.962021I		
a = -1.50913 + 0.91650I	-3.02895 + 2.54150I	0
b = -0.282652 - 0.856538I		
u = 0.048183 + 1.034830I		
a = 0.128851 + 0.373299I	-1.68569 + 1.98753I	0
b = 0.826802 - 0.254280I		
u = 0.048183 - 1.034830I		
a = 0.128851 - 0.373299I	-1.68569 - 1.98753I	0
b = 0.826802 + 0.254280I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.143691 + 0.946403I		
a = -0.858770 + 0.173939I	2.04273 - 1.92425I	0
b = -0.96058 - 1.31302I		
u = -0.143691 - 0.946403I		
a = -0.858770 - 0.173939I	2.04273 + 1.92425I	0
b = -0.96058 + 1.31302I		
u = -0.552887 + 0.776994I		
a = -1.21485 + 1.44966I	-5.13061I	0
b = -0.552887 - 0.776994I		
u = -0.552887 - 0.776994I		
a = -1.21485 - 1.44966I	5.13061I	0
b = -0.552887 + 0.776994I		
u = 0.671960 + 0.807813I		
a = 0.339432 + 0.012190I	0.60621 + 2.56467I	0
b = -0.189179 - 0.240700I		
u = 0.671960 - 0.807813I		
a = 0.339432 - 0.012190I	0.60621 - 2.56467I	0
b = -0.189179 + 0.240700I		
u = -0.155008 + 1.051230I		
a = 0.50273 - 1.94901I	-2.86286 - 4.82970I	0
b = 0.204387 + 1.100630I		
u = -0.155008 - 1.051230I		
a = 0.50273 + 1.94901I	-2.86286 + 4.82970I	0
b = 0.204387 - 1.100630I		
u = 0.906525 + 0.226741I		
a = 0.28195 + 1.46628I	7.99660 + 1.83983I	0
b = -0.252765 - 1.375860I		
u = 0.906525 - 0.226741I		
a = 0.28195 - 1.46628I	7.99660 - 1.83983I	0
b = -0.252765 + 1.375860I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.384605 + 1.005630I		
a = 0.530220 + 0.793332I	-0.91300 + 3.25049I	0
b = 0.838496 - 0.137029I		
u = 0.384605 - 1.005630I		
a = 0.530220 - 0.793332I	-0.91300 - 3.25049I	0
b = 0.838496 + 0.137029I		
u = 0.081765 + 1.085650I		
a = 2.30031 + 1.57765I	-1.03850 + 9.71041I	0
b = 0.358880 - 1.125930I		
u = 0.081765 - 1.085650I		
a = 2.30031 - 1.57765I	-1.03850 - 9.71041I	0
b = 0.358880 + 1.125930I		
u = 0.994147 + 0.447540I		
a = -0.477464 - 1.163730I	6.58758 - 7.24408I	0
b = 0.390802 + 1.300370I		
u = 0.994147 - 0.447540I		
a = -0.477464 + 1.163730I	6.58758 + 7.24408I	0
b = 0.390802 - 1.300370I		
u = -0.282652 + 0.856538I		
a = 1.89217 - 0.34272I	3.02895 + 2.54150I	0
b = -0.102463 + 0.962021I		
u = -0.282652 - 0.856538I		
a = 1.89217 + 0.34272I	3.02895 - 2.54150I	0
b = -0.102463 - 0.962021I		
u = -0.013025 + 0.889984I		
a = 0.58377 - 2.54777I	4.14677 - 4.21274I	0
b = 0.165168 + 1.387130I		
u = -0.013025 - 0.889984I		
a = 0.58377 + 2.54777I	4.14677 + 4.21274I	0
b = 0.165168 - 1.387130I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.028930 + 0.419517I		
a = 0.71297 - 1.37414I	5.05665 + 1.27721I	0
b = -0.178544 + 1.263810I		
u = -1.028930 - 0.419517I		
a = 0.71297 + 1.37414I	5.05665 - 1.27721I	0
b = -0.178544 - 1.263810I		
u = -0.835416 + 0.282230I		
a = -0.09605 - 1.80726I	4.52184 - 6.28312I	0
b = 0.342270 + 1.368570I		
u = -0.835416 - 0.282230I		
a = -0.09605 + 1.80726I	4.52184 + 6.28312I	0
b = 0.342270 - 1.368570I		
u = 0.204387 + 1.100630I		
a = -0.895943 + 0.544333I	2.86286 + 4.82970I	0
b = -0.155008 + 1.051230I		
u = 0.204387 - 1.100630I		
a = -0.895943 - 0.544333I	2.86286 - 4.82970I	0
b = -0.155008 - 1.051230I		
u = 0.724429 + 0.492186I		
a = -0.221354 - 0.003732I	1.06409 + 2.53770I	0
b = 0.218270 - 0.363227I		
u = 0.724429 - 0.492186I		
a = -0.221354 + 0.003732I	1.06409 - 2.53770I	0
b = 0.218270 + 0.363227I		
u = 0.098846 + 1.120500I		
a = -1.32602 - 0.75884I	-4.40175 + 2.27220I	0
b = -0.547775 + 1.014710I		
u = 0.098846 - 1.120500I		
a = -1.32602 + 0.75884I	-4.40175 - 2.27220I	0
b = -0.547775 - 1.014710I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.038169 + 0.872769I		
a = 3.19060 + 0.29768I	-9.40180I	0
b = -0.038169 - 0.872769I		
u = -0.038169 - 0.872769I		
a = 3.19060 - 0.29768I	9.40180I	0
b = -0.038169 + 0.872769I		
u = 0.826802 + 0.254280I		
a = 0.423229 + 1.072870I	1.68569 + 1.98753I	0
b = 0.048183 - 1.034830I		
u = 0.826802 - 0.254280I		
a = 0.423229 - 1.072870I	1.68569 - 1.98753I	0
b = 0.048183 + 1.034830I		
u = -0.025027 + 1.137880I		
a = -0.93249 + 1.12429I	-2.26284 + 2.38006I	0
b = -0.135474 - 0.844110I		
u = -0.025027 - 1.137880I		
a = -0.93249 - 1.12429I	-2.26284 - 2.38006I	0
b = -0.135474 + 0.844110I		
u = -0.135474 + 0.844110I		
a = -1.46572 - 0.11078I	2.26284 + 2.38006I	0
b = -0.025027 - 1.137880I		
u = -0.135474 - 0.844110I		
a = -1.46572 + 0.11078I	2.26284 - 2.38006I	0
b = -0.025027 + 1.137880I		
u = -0.073562 + 0.849661I		
a = -0.129598 + 0.600967I	2.52076 + 0.62563I	0
b = 0.33723 - 1.80064I		
u = -0.073562 - 0.849661I		
a = -0.129598 - 0.600967I	2.52076 - 0.62563I	0
b = 0.33723 + 1.80064I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.838496 + 0.137029I		
a = 0.46437 + 1.86669I	0.91300 + 3.25049I	0
b = 0.384605 - 1.005630I		
u = 0.838496 - 0.137029I		
a = 0.46437 - 1.86669I	0.91300 - 3.25049I	0
b = 0.384605 + 1.005630I		
u = 1.047380 + 0.476835I		
a = 0.44512 + 1.34264I	-1.58375 + 3.04276I	0
b = -0.201455 - 0.670663I		
u = 1.047380 - 0.476835I		
a = 0.44512 - 1.34264I	-1.58375 - 3.04276I	0
b = -0.201455 + 0.670663I		
u = -0.547775 + 1.014710I		
a = 1.38852 - 1.21465I	4.40175 - 2.27220I	0
b = 0.098846 + 1.120500I		
u = -0.547775 - 1.014710I		
a = 1.38852 + 1.21465I	4.40175 + 2.27220I	0
b = 0.098846 - 1.120500I		
u = -0.504260 + 1.039200I		
a = 0.85543 - 1.43473I	3.25392 - 6.73569I	0
b = 0.45680 + 1.37653I		
u = -0.504260 - 1.039200I		
a = 0.85543 + 1.43473I	3.25392 + 6.73569I	0
b = 0.45680 - 1.37653I		
u = -0.801920 + 0.225074I		
a = 0.26580 - 1.92824I	6.09129 + 3.67687I	0
b = -0.347240 + 1.306480I		
u = -0.801920 - 0.225074I		
a = 0.26580 + 1.92824I	6.09129 - 3.67687I	0
b = -0.347240 - 1.306480I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.194135 + 1.159610I		
a = 0.426812 - 0.802608I	-1.24450 - 6.61929I	0
b = 0.64980 + 1.77633I		
u = -0.194135 - 1.159610I		
a = 0.426812 + 0.802608I	-1.24450 + 6.61929I	0
b = 0.64980 - 1.77633I		
u = -0.413869 + 0.712030I		
a = -0.924236 + 0.596977I	3.26014 + 2.74200I	0
b = 0.40116 - 1.43664I		
u = -0.413869 - 0.712030I		
a = -0.924236 - 0.596977I	3.26014 - 2.74200I	0
b = 0.40116 + 1.43664I		
u = 0.358880 + 1.125930I		
a = 2.42751 + 0.53129I	1.03850 + 9.71041I	0
b = 0.081765 - 1.085650I		
u = 0.358880 - 1.125930I		
a = 2.42751 - 0.53129I	1.03850 - 9.71041I	0
b = 0.081765 + 1.085650I		
u = 0.354486 + 1.137680I		
a = 0.459887 + 0.682483I	-0.64534 + 2.48885I	0
b = 0.613232 - 0.823675I		
u = 0.354486 - 1.137680I		
a = 0.459887 - 0.682483I	-0.64534 - 2.48885I	0
b = 0.613232 + 0.823675I		
u = 0.729973 + 0.296590I		
a = 0.844925 + 0.526610I	1.50001 + 2.85730I	0
b = -0.542269 - 0.003712I		
u = 0.729973 - 0.296590I		
a = 0.844925 - 0.526610I	1.50001 - 2.85730I	0
b = -0.542269 + 0.003712I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.217430 + 0.146682I		
a = 0.35174 - 1.59271I	5.13554 + 6.54586I	0
b = -0.380162 + 1.230360I		
u = -1.217430 - 0.146682I		
a = 0.35174 + 1.59271I	5.13554 - 6.54586I	0
b = -0.380162 - 1.230360I		
u = 0.640629 + 0.432937I		
a = 0.753849 + 0.653524I	1.70567 + 1.64873I	0
b = -0.202385 - 1.215850I		
u = 0.640629 - 0.432937I		
a = 0.753849 - 0.653524I	1.70567 - 1.64873I	0
b = -0.202385 + 1.215850I		
u = -0.202385 + 1.215850I		
a = -0.017736 + 0.493749I	-1.70567 + 1.64873I	0
b = 0.640629 - 0.432937I		
u = -0.202385 - 1.215850I		
a = -0.017736 - 0.493749I	-1.70567 - 1.64873I	0
b = 0.640629 + 0.432937I		
u = 1.241660 + 0.000578I		
a = -0.103343 - 1.406140I	2.99999 - 6.53096I	0
b = 0.348304 + 1.259150I		
u = 1.241660 - 0.000578I		
a = -0.103343 + 1.406140I	2.99999 + 6.53096I	0
b = 0.348304 - 1.259150I		
u = -0.735451 + 0.177578I		
a = 0.553053 - 0.678758I	-10.8593I	0
b = -0.735451 - 0.177578I		
u = -0.735451 - 0.177578I		
a = 0.553053 + 0.678758I	10.8593I	0
b = -0.735451 + 0.177578I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.592458 + 1.097850I		
a = -0.89786 - 1.10652I	4.48445 + 12.89690I	0
b = -0.69048 + 1.34634I		
u = 0.592458 - 1.097850I		
a = -0.89786 + 1.10652I	4.48445 - 12.89690I	0
b = -0.69048 - 1.34634I		
u = -1.008240 + 0.736346I		
a = 0.125074 - 0.933280I	-1.61642 + 5.68271I	0
b = -0.141427 + 0.502698I		
u = -1.008240 - 0.736346I		
a = 0.125074 + 0.933280I	-1.61642 - 5.68271I	0
b = -0.141427 - 0.502698I		
u = -0.186777 + 1.246840I		
a = -0.760603 - 0.330859I	-3.78459 - 4.20222I	0
b = -0.864219 - 0.506539I		
u = -0.186777 - 1.246840I		
a = -0.760603 + 0.330859I	-3.78459 + 4.20222I	0
b = -0.864219 + 0.506539I		
u = 1.274010 + 0.002155I		
a = 0.17769 + 1.53470I	4.3631 - 14.9744I	0
b = -0.392076 - 1.290980I		
u = 1.274010 - 0.002155I		
a = 0.17769 - 1.53470I	4.3631 + 14.9744I	0
b = -0.392076 + 1.290980I		
u = 0.080709 + 1.272450I		
a = -0.971199 + 0.245399I	-5.21796 + 2.67365I	0
b = -0.638373 + 0.767389I		
u = 0.080709 - 1.272450I		
a = -0.971199 - 0.245399I	-5.21796 - 2.67365I	0
b = -0.638373 - 0.767389I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.178544 + 1.263810I		
a = -0.317193 - 0.353665I	-5.05665 - 1.27721I	0
b = -1.028930 + 0.419517I		
u = -0.178544 - 1.263810I		
a = -0.317193 + 0.353665I	-5.05665 + 1.27721I	0
b = -1.028930 - 0.419517I		
u = -0.435716 + 1.204860I		
a = 1.34640 - 1.04943I	3.01615 - 8.22973I	0
b = 0.510008 + 1.287380I		
u = -0.435716 - 1.204860I		
a = 1.34640 + 1.04943I	3.01615 + 8.22973I	0
b = 0.510008 - 1.287380I		
u = -0.380162 + 1.230360I		
a = -0.304080 + 0.165278I	-5.13554 - 6.54586I	0
b = -1.217430 + 0.146682I		
u = -0.380162 - 1.230360I		
a = -0.304080 - 0.165278I	-5.13554 + 6.54586I	0
b = -1.217430 - 0.146682I		
u = 0.209467 + 1.275540I		
a = -0.310130 - 0.170895I	-5.80644 + 4.40592I	0
b = -1.365010 + 0.227003I		
u = 0.209467 - 1.275540I		
a = -0.310130 + 0.170895I	-5.80644 - 4.40592I	0
b = -1.365010 - 0.227003I		
u = -0.008032 + 0.707209I		
a = -0.744637 + 0.267026I	1.61685 - 5.65859I	0
b = -1.21653 + 0.96709I		
u = -0.008032 - 0.707209I		
a = -0.744637 - 0.267026I	1.61685 + 5.65859I	0
b = -1.21653 - 0.96709I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.521757 + 1.190380I		
a = 0.982881 + 0.877814I	5.01183 + 3.30390I	0
b = 0.57949 - 1.33670I		
u = 0.521757 - 1.190380I		
a = 0.982881 - 0.877814I	5.01183 - 3.30390I	0
b = 0.57949 + 1.33670I		
u = -0.201455 + 0.670663I		
a = 1.094690 - 0.426052I	1.58375 + 3.04276I	0
b = 1.047380 - 0.476835I		
u = -0.201455 - 0.670663I		
a = 1.094690 + 0.426052I	1.58375 - 3.04276I	0
b = 1.047380 + 0.476835I		
u = 0.348304 + 1.259150I		
a = 0.072451 + 0.261668I	-2.99999 + 6.53096I	0
b = 1.241660 + 0.000578I		
u = 0.348304 - 1.259150I		
a = 0.072451 - 0.261668I	-2.99999 - 6.53096I	0
b = 1.241660 - 0.000578I		
u = -0.015741 + 1.325840I		
a = 0.440036 - 0.885792I	-3.42745 - 6.17744I	0
b = 0.498678 - 0.330608I		
u = -0.015741 - 1.325840I		
a = 0.440036 + 0.885792I	-3.42745 + 6.17744I	0
b = 0.498678 + 0.330608I		
u = 0.612638 + 1.195610I		
a = 0.345226 + 0.999956I	-0.82965 + 2.65878I	0
b = 0.565862 - 0.787510I		
u = 0.612638 - 1.195610I		
a = 0.345226 - 0.999956I	-0.82965 - 2.65878I	0
b = 0.565862 + 0.787510I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.698418 + 1.148540I		
a = -1.13573 + 1.10329I	1.80089 - 1.83392I	0
b = 0.031691 - 0.990579I		
u = -0.698418 - 1.148540I		
a = -1.13573 - 1.10329I	1.80089 + 1.83392I	0
b = 0.031691 + 0.990579I		
u = 0.651859		
a = 1.30127	1.03935	0
b = -0.121386		
u = -0.392076 + 1.290980I		
a = 0.160934 - 0.260850I	-4.3631 - 14.9744I	0
b = 1.274010 - 0.002155I		
u = -0.392076 - 1.290980I		
a = 0.160934 + 0.260850I	-4.3631 + 14.9744I	0
b = 1.274010 + 0.002155I		
u = -0.347240 + 1.306480I		
a = -0.304351 + 0.237992I	-6.09129 - 3.67687I	0
b = -0.801920 + 0.225074I		
u = -0.347240 - 1.306480I		
a = -0.304351 - 0.237992I	-6.09129 + 3.67687I	0
b = -0.801920 - 0.225074I		
u = 0.390802 + 1.300370I		
a = -0.0372292 - 0.1244690I	-6.58758 + 7.24408I	0
b = 0.994147 + 0.447540I		
u = 0.390802 - 1.300370I		
a = -0.0372292 + 0.1244690I	-6.58758 - 7.24408I	0
b = 0.994147 - 0.447540I		
u = -0.602683 + 0.154149I		
a = 0.339281 + 0.335040I	-1.64259 + 0.07288I	0
b = 0.512946 - 0.069863I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.602683 - 0.154149I		
a = 0.339281 - 0.335040I	-1.64259 - 0.07288I	0
b = 0.512946 + 0.069863I		
u = -1.365010 + 0.227003I		
a = -0.04924 - 1.56492I	5.80644 - 4.40592I	0
b = 0.209467 + 1.275540I		
u = -1.365010 - 0.227003I		
a = -0.04924 + 1.56492I	5.80644 + 4.40592I	0
b = 0.209467 - 1.275540I		
u = 0.510008 + 1.287380I		
a = -1.14072 - 1.30291I	-3.01615 + 8.22973I	0
b = -0.435716 + 1.204860I		
u = 0.510008 - 1.287380I		
a = -1.14072 + 1.30291I	-3.01615 - 8.22973I	0
b = -0.435716 - 1.204860I		
u = 0.165168 + 1.387130I		
a = -0.571152 + 0.669630I	-4.14677 + 4.21274I	0
b = -0.013025 + 0.889984I		
u = 0.165168 - 1.387130I		
a = -0.571152 - 0.669630I	-4.14677 - 4.21274I	0
b = -0.013025 - 0.889984I		
u = -0.252765 + 1.375860I		
a = 0.0630504 - 0.0072569I	-7.99660 + 1.83983I	0
b = 0.906525 - 0.226741I		
u = -0.252765 - 1.375860I		
a = 0.0630504 + 0.0072569I	-7.99660 - 1.83983I	0
b = 0.906525 + 0.226741I		
u = 0.498678 + 0.330608I		
a = -1.05892 + 3.23620I	3.42745 - 6.17744I	0
b = -0.015741 - 1.325840I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.498678 - 0.330608I		
a = -1.05892 - 3.23620I	3.42745 + 6.17744I	0
b = -0.015741 + 1.325840I		
u = 0.342270 + 1.368570I		
a = -0.285730 - 0.131290I	-4.52184 + 6.28312I	0
b = -0.835416 + 0.282230I		
u = 0.342270 - 1.368570I		
a = -0.285730 + 0.131290I	-4.52184 - 6.28312I	0
b = -0.835416 - 0.282230I		
u = 0.044599 + 0.559522I		
a = 2.19902 + 1.72214I	-1.26339 + 3.53599I	0
b = 0.037178 + 0.336355I		
u = 0.044599 - 0.559522I		
a = 2.19902 - 1.72214I	-1.26339 - 3.53599I	0
b = 0.037178 - 0.336355I		
u = 0.45680 + 1.37653I		
a = -0.781031 - 0.695952I	-3.25392 + 6.73569I	0
b = -0.504260 + 1.039200I		
u = 0.45680 - 1.37653I		
a = -0.781031 + 0.695952I	-3.25392 - 6.73569I	0
b = -0.504260 - 1.039200I		
u = 0.57949 + 1.33670I		
a = 0.64875 + 1.29975I	-5.01183 + 3.30390I	0
b = 0.521757 - 1.190380I		
u = 0.57949 - 1.33670I		
a = 0.64875 - 1.29975I	-5.01183 - 3.30390I	0
b = 0.521757 + 1.190380I		
u = -0.542269 + 0.003712I		
a = 0.127368 - 0.868560I	-1.50001 + 2.85730I	-7.03168 - 9.29271I
b = 0.729973 - 0.296590I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.542269 - 0.003712I		
a = 0.127368 + 0.868560I	-1.50001 - 2.85730I	-7.03168 + 9.29271I
b = 0.729973 + 0.296590I		
u = -0.60249 + 1.33280I		
a = 0.79980 - 1.29573I	1.35735 - 12.84530I	0
b = 0.58228 + 1.38962I		
u = -0.60249 - 1.33280I		
a = 0.79980 + 1.29573I	1.35735 + 12.84530I	0
b = 0.58228 - 1.38962I		
u = -0.141427 + 0.502698I		
a = -0.605084 + 0.833743I	1.61642 - 5.68271I	5.78893 + 6.51076I
b = -1.008240 + 0.736346I		
u = -0.141427 - 0.502698I		
a = -0.605084 - 0.833743I	1.61642 + 5.68271I	5.78893 - 6.51076I
b = -1.008240 - 0.736346I		
u = 0.512946 + 0.069863I		
a = 1.053910 - 0.199001I	1.64259 + 0.07288I	6.72266 + 0.I
b = -0.602683 - 0.154149I		
u = 0.512946 - 0.069863I		
a = 1.053910 + 0.199001I	1.64259 - 0.07288I	6.72266 + 0.I
b = -0.602683 + 0.154149I		
u = -0.45647 + 1.41731I		
a = -0.759777 + 0.979733I	-0.74114 - 11.16110I	0
b = -0.60812 - 1.45626I		
u = -0.45647 - 1.41731I		
a = -0.759777 - 0.979733I	-0.74114 + 11.16110I	0
b = -0.60812 + 1.45626I		
u = 0.40116 + 1.43664I		
a = -0.162936 + 0.521349I	-3.26014 + 2.74200I	0
b = -0.413869 - 0.712030I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.40116 - 1.43664I		
a = -0.162936 - 0.521349I	-3.26014 - 2.74200I	0
b = -0.413869 + 0.712030I		
u = 0.58228 + 1.38962I		
a = -0.847279 - 1.044300I	-1.35735 + 12.84530I	0
b = -0.60249 + 1.33280I		
u = 0.58228 - 1.38962I		
a = -0.847279 + 1.044300I	-1.35735 - 12.84530I	0
b = -0.60249 - 1.33280I		
u = -0.69048 + 1.34634I		
a = 0.578684 - 1.191290I	-4.48445 - 12.89690I	0
b = 0.592458 + 1.097850I		
u = -0.69048 - 1.34634I		
a = 0.578684 + 1.191290I	-4.48445 + 12.89690I	0
b = 0.592458 - 1.097850I		
u = 0.59787 + 1.39664I		
a = 0.83451 + 1.18352I	21.4390I	0
b = 0.59787 - 1.39664I		
u = 0.59787 - 1.39664I		
a = 0.83451 - 1.18352I	-21.4390I	0
b = 0.59787 + 1.39664I		
u = -1.21653 + 0.96709I		
a = 0.127649 - 1.046760I	-1.61685 + 5.65859I	0
b = -0.008032 + 0.707209I		
u = -1.21653 - 0.96709I		
a = 0.127649 + 1.046760I	-1.61685 - 5.65859I	0
b = -0.008032 - 0.707209I		
u = 0.218270 + 0.363227I		
a = -0.757589 + 0.035843I	-1.06409 + 2.53770I	-9.83616 - 8.02353I
b = 0.724429 - 0.492186I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.218270 - 0.363227I		
a = -0.757589 - 0.035843I	-1.06409 - 2.53770I	-9.83616 + 8.02353I
b = 0.724429 + 0.492186I		
u = -0.60812 + 1.45626I		
a = -0.689061 + 1.180300I	0.74114 - 11.16110I	0
b = -0.45647 - 1.41731I		
u = -0.60812 - 1.45626I		
a = -0.689061 - 1.180300I	0.74114 + 11.16110I	0
b = -0.45647 + 1.41731I		
u = -0.84402 + 1.34401I		
a = -0.602391 + 1.118000I	-2.65028 - 5.98733I	0
b = -0.340233 - 0.924142I		
u = -0.84402 - 1.34401I		
a = -0.602391 - 1.118000I	-2.65028 + 5.98733I	0
b = -0.340233 + 0.924142I		
u = -0.16055 + 1.59671I		
a = -0.442577 + 0.099851I	-2.01485 - 3.55741I	0
b = -0.098449 - 0.972581I		
u = -0.16055 - 1.59671I		
a = -0.442577 - 0.099851I	-2.01485 + 3.55741I	0
b = -0.098449 + 0.972581I		
u = -0.96058 + 1.31302I		
a = -0.286862 + 1.230000I	-2.04273 - 1.92425I	0
b = -0.143691 - 0.946403I		
u = -0.96058 - 1.31302I		
a = -0.286862 - 1.230000I	-2.04273 + 1.92425I	0
b = -0.143691 + 0.946403I		
u = 0.037178 + 0.336355I		
a = -3.60309 - 3.52603I	1.26339 - 3.53599I	8.48761 + 1.84732I
b = 0.044599 + 0.559522I		
·		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.037178 - 0.336355I		
a = -3.60309 + 3.52603I	1.26339 + 3.53599I	8.48761 - 1.84732I
b = 0.044599 - 0.559522I		
u = -0.189179 + 0.240700I		
a = 0.493757 + 0.798291I	-0.60621 + 2.56467I	1.05348 + 9.91926I
b = 0.671960 - 0.807813I		
u = -0.189179 - 0.240700I		
a = 0.493757 - 0.798291I	-0.60621 - 2.56467I	1.05348 - 9.91926I
b = 0.671960 + 0.807813I		
u = 0.33723 + 1.80064I		
a = 0.041114 + 0.565302I	-2.52076 + 0.62563I	0
b = -0.073562 - 0.849661I		
u = 0.33723 - 1.80064I		
a = 0.041114 - 0.565302I	-2.52076 - 0.62563I	0
b = -0.073562 + 0.849661I		
u = -0.121386		
a = 6.33618	-1.03935	-9.23360
b = 0.651859		
u = 0.64980 + 1.77633I		
a = -0.282970 - 0.856836I	1.24450 + 6.61929I	0
b = -0.194135 + 1.159610I		
u = 0.64980 - 1.77633I		
a = -0.282970 + 0.856836I	1.24450 - 6.61929I	0
b = -0.194135 - 1.159610I		
u = 0.71740 + 2.20998I		
a = -0.159639 - 0.795440I	-0.94548 - 7.07618I	0
b = 0.119296 + 0.965852I		
u = 0.71740 - 2.20998I		
a = -0.159639 + 0.795440I	-0.94548 + 7.07618I	0
b = 0.119296 - 0.965852I		

 $II. \\ I_2^u = \langle 9.77 \times 10^{48} u^{45} + 1.29 \times 10^{49} u^{44} + \dots + 7.61 \times 10^{48} b - 1.59 \times 10^{49}, \ 4.79 \times 10^{49} u^{45} + 3.77 \times 10^{49} u^{44} + \dots + 1.52 \times 10^{49} a - 4.81 \times 10^{49}, \ u^{46} + u^{45} + \dots - 2u + 1 \rangle$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -3.14479u^{45} - 2.47743u^{44} + \dots + 6.20769u + 3.16086 \\ -1.28341u^{45} - 1.69479u^{44} + \dots + 6.32515u + 2.08601 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -4.42820u^{45} - 4.17222u^{44} + \dots + 12.5328u + 5.24687 \\ -1.28341u^{45} - 1.69479u^{44} + \dots + 6.32515u + 2.08601 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.845860u^{45} + 1.58667u^{44} + \dots + 7.57292u + 13.1916 \\ -0.942781u^{45} - 1.28190u^{44} + \dots + 16.0628u + 0.227574 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -2.88832u^{45} - 2.72018u^{44} + \dots + 16.4425u + 5.69110 \\ -1.88543u^{45} - 2.20767u^{44} + \dots + 4.13104u + 1.55394 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.465016u^{45} - 0.995453u^{44} + \dots + 20.3747u - 8.28756 \\ 1.98562u^{45} + 2.56756u^{44} + \dots + 11.8551u - 1.10611 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 6.47064u^{45} + 3.64790u^{44} + \dots + 12.8110u - 1.77496 \\ -2.64343u^{45} - 1.34550u^{44} + \dots + 12.4888u - 1.73754 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 7.15260u^{45} + 5.81205u^{44} + \dots - 5.90193u + 11.2994 \\ -2.38129u^{45} - 3.79813u^{44} + \dots + 14.4459u - 3.26141 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.451925u^{45} - 1.49570u^{44} + \dots + 16.7203u - 12.0040 \\ 0.327833u^{45} + 1.22926u^{44} + \dots - 17.2272u + 1.86062 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-9.71406u^{45} 14.4173u^{44} + \cdots + 113.376u + 42.9605$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{46} - 10u^{45} + \dots - 43u + 7$
c_2	$u^{46} + 4u^{45} + \dots - 16u^2 + 1$
C ₃	$u^{46} + 3u^{45} + \dots + 6u + 11$
c_4, c_7	$u^{46} - u^{45} + \dots + 2u + 1$
<i>C</i> 5	$u^{46} - 3u^{45} + \dots - 6u + 11$
c_6	$u^{46} - 4u^{45} + \dots - 16u^2 + 1$
C ₈	$u^{46} + 10u^{45} + \dots + 43u + 7$
<i>c</i> ₉	$u^{46} + 11u^{44} + \dots - u + 1$
c_{10}	$u^{46} + 11u^{44} + \dots + u + 1$
c_{11}, c_{12}	$u^{46} + u^{45} + \dots - 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_8	$y^{46} - 4y^{45} + \dots - 939y + 49$
c_{2}, c_{6}	$y^{46} - 4y^{45} + \dots - 32y + 1$
c_3, c_5	$y^{46} - 29y^{45} + \dots - 2522y + 121$
c_4, c_7, c_{11} c_{12}	$y^{46} + 41y^{45} + \dots - 30y + 1$
c_9,c_{10}	$y^{46} + 22y^{45} + \dots + 27y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.727540 + 0.688729I		
a = -0.427620 - 0.261294I	0.53949 + 2.86039I	0 15.4305I
b = 0.200432 - 0.011361I		
u = 0.727540 - 0.688729I		
a = -0.427620 + 0.261294I	0.53949 - 2.86039I	0. + 15.4305I
b = 0.200432 + 0.011361I		
u = -0.329478 + 0.960965I		
a = 1.16986 - 1.12279I	2.50780 - 5.65241I	0
b = 0.68718 + 1.34568I		
u = -0.329478 - 0.960965I		
a = 1.16986 + 1.12279I	2.50780 + 5.65241I	0
b = 0.68718 - 1.34568I		
u = -0.778009 + 0.584867I		
a = -0.20578 + 2.50673I	4.47763 - 3.29898I	5.18756 + 3.44828I
b = -0.105849 - 1.265510I		
u = -0.778009 - 0.584867I		
a = -0.20578 - 2.50673I	4.47763 + 3.29898I	5.18756 - 3.44828I
b = -0.105849 + 1.265510I		
u = -1.025180 + 0.087295I		
a = -0.26513 - 1.70468I	4.78004 - 5.53985I	0
b = 0.327609 + 1.291840I		
u = -1.025180 - 0.087295I		
a = -0.26513 + 1.70468I	4.78004 + 5.53985I	0
b = 0.327609 - 1.291840I		
u = -0.065381 + 0.948354I		
a = 0.660454 + 0.569804I	0.94522 - 6.65017I	1.38744 + 1.69747I
b = 0.64687 - 1.77525I		
u = -0.065381 - 0.948354I		
a = 0.660454 - 0.569804I	0.94522 + 6.65017I	1.38744 - 1.69747I
b = 0.64687 + 1.77525I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.313371 + 1.008590I		
a = 2.79375 + 1.42100I	10.6567I	0
b = 0.313371 - 1.008590I		
u = 0.313371 - 1.008590I		
a = 2.79375 - 1.42100I	-10.6567I	0
b = 0.313371 + 1.008590I		
u = -0.646822 + 0.591396I		
a = 0.88503 - 1.19039I	0.54038 - 2.81203I	-12.74993 + 4.27436I
b = 0.586185 + 1.102620I		
u = -0.646822 - 0.591396I		
a = 0.88503 + 1.19039I	0.54038 + 2.81203I	-12.74993 - 4.27436I
b = 0.586185 - 1.102620I		
u = -0.043894 + 0.833181I		
a = 0.754718 - 0.573028I	2.62289 - 1.22032I	9.80701 + 4.35080I
b = 0.55008 + 1.61160I		
u = -0.043894 - 0.833181I		
a = 0.754718 + 0.573028I	2.62289 + 1.22032I	9.80701 - 4.35080I
b = 0.55008 - 1.61160I		
u = 0.204267 + 0.736085I		
a = -1.74200 + 0.37937I	0.80874 + 4.00875I	0.23241 - 9.18036I
b = -0.442043 + 0.302005I		
u = 0.204267 - 0.736085I		
a = -1.74200 - 0.37937I	0.80874 - 4.00875I	0.23241 + 9.18036I
b = -0.442043 - 0.302005I		
u = 0.586185 + 1.102620I		
a = -0.317153 - 0.984578I	-0.54038 + 2.81203I	0
b = -0.646822 + 0.591396I		
u = 0.586185 - 1.102620I		
a = -0.317153 + 0.984578I	-0.54038 - 2.81203I	0
b = -0.646822 - 0.591396I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.105849 + 1.265510I		
a = -0.932535 - 0.304062I	-4.47763 - 3.29898I	0
b = -0.778009 - 0.584867I		
u = -0.105849 - 1.265510I		
a = -0.932535 + 0.304062I	-4.47763 + 3.29898I	0
b = -0.778009 + 0.584867I		
u = -0.320917 + 0.633639I		
a = 1.086150 - 0.393176I	3.48588 + 2.45562I	13.9636 + 3.1362I
b = -0.25002 + 1.52526I		
u = -0.320917 - 0.633639I		
a = 1.086150 + 0.393176I	3.48588 - 2.45562I	13.9636 - 3.1362I
b = -0.25002 - 1.52526I		
u = 0.136120 + 1.304210I		
a = -0.465825 + 0.953517I	-5.16145 + 4.49240I	0
b = -0.280410 + 0.467502I		
u = 0.136120 - 1.304210I		
a = -0.465825 - 0.953517I	-5.16145 - 4.49240I	0
b = -0.280410 - 0.467502I		
u = -0.046914 + 1.325630I		
a = 0.188006 + 0.656992I	5.87289I	0
b = -0.046914 - 1.325630I		
u = -0.046914 - 1.325630I		
a = 0.188006 - 0.656992I	-5.87289I	0
b = -0.046914 + 1.325630I		
u = 0.327609 + 1.291840I		
a = -0.306628 - 0.099445I	-4.78004 + 5.53985I	0
b = -1.025180 + 0.087295I		
u = 0.327609 - 1.291840I		
a = -0.306628 + 0.099445I	-4.78004 - 5.53985I	0
b = -1.025180 - 0.087295I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.280410 + 0.467502I		
a = -0.61780 - 3.81100I	5.16145 - 4.49240I	10.46065 + 5.83591I
b = 0.136120 + 1.304210I		
u = -0.280410 - 0.467502I		
a = -0.61780 + 3.81100I	5.16145 + 4.49240I	10.46065 - 5.83591I
b = 0.136120 - 1.304210I		
u = -0.442043 + 0.302005I		
a = 0.08572 - 3.26342I	-0.80874 - 4.00875I	-0.23241 + 9.18036I
b = 0.204267 + 0.736085I		
u = -0.442043 - 0.302005I		
a = 0.08572 + 3.26342I	-0.80874 + 4.00875I	-0.23241 - 9.18036I
b = 0.204267 - 0.736085I		
u = 0.68718 + 1.34568I		
a = -0.759936 - 1.001910I	-2.50780 + 5.65241I	0
b = -0.329478 + 0.960965I		
u = 0.68718 - 1.34568I		
a = -0.759936 + 1.001910I	-2.50780 - 5.65241I	0
b = -0.329478 - 0.960965I		
u = -0.54474 + 1.42111I		
a = -0.722129 + 1.091760I	-11.2700I	0
b = -0.54474 - 1.42111I		
u = -0.54474 - 1.42111I		
a = -0.722129 - 1.091760I	11.2700I	0
b = -0.54474 + 1.42111I		
u = -0.25002 + 1.52526I		
a = -0.209460 - 0.611891I	-3.48588 - 2.45562I	0
b = -0.320917 + 0.633639I		
u = -0.25002 - 1.52526I		
a = -0.209460 + 0.611891I	-3.48588 + 2.45562I	0
b = -0.320917 - 0.633639I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.55008 + 1.61160I		
a = -0.403835 - 0.710308I	-2.62289 + 1.22032I	0
b = -0.043894 + 0.833181I		
u = 0.55008 - 1.61160I		
a = -0.403835 + 0.710308I	-2.62289 - 1.22032I	0
b = -0.043894 - 0.833181I		
u = 0.200432 + 0.011361I		
a = -0.21191 - 1.75836I	-0.53949 + 2.86039I	6.2042 - 15.4305I
b = 0.727540 - 0.688729I		
u = 0.200432 - 0.011361I		
a = -0.21191 + 1.75836I	-0.53949 - 2.86039I	6.2042 + 15.4305I
b = 0.727540 + 0.688729I		
u = 0.64687 + 1.77525I		
a = 0.464060 + 0.764909I	-0.94522 - 6.65017I	0
b = -0.065381 - 0.948354I		
u = 0.64687 - 1.77525I		
a = 0.464060 - 0.764909I	-0.94522 + 6.65017I	0
b = -0.065381 + 0.948354I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{46} - 10u^{45} + \dots - 43u + 7)(u^{190} + 5u^{189} + \dots + 6665u + 199) $
c_2	$(u^{46} + 4u^{45} + \dots - 16u^2 + 1)(u^{190} - 9u^{189} + \dots - 4u + 1)$
c_3	$(u^{46} + 3u^{45} + \dots + 6u + 11)$ $\cdot (u^{190} - 2u^{189} + \dots + 670900166u - 53862673)$
c_4	$ (u^{46} - u^{45} + \dots + 2u + 1)(u^{190} + 67u^{188} + \dots + 138006u - 17447) $
c_5	$(u^{46} - 3u^{45} + \dots - 6u + 11)$ $\cdot (u^{190} + 2u^{189} + \dots - 670900166u - 53862673)$
c_6	$ (u^{46} - 4u^{45} + \dots - 16u^2 + 1)(u^{190} + 9u^{189} + \dots + 4u + 1) $
c_7	$(u^{46} - u^{45} + \dots + 2u + 1)(u^{190} + 67u^{188} + \dots - 138006u - 17447)$
c_8	$ (u^{46} + 10u^{45} + \dots + 43u + 7)(u^{190} - 5u^{189} + \dots - 6665u + 199) $
<i>c</i> ₉	$(u^{46} + 11u^{44} + \dots - u + 1)(u^{190} - u^{189} + \dots + 29u - 1)$
c_{10}	$(u^{46} + 11u^{44} + \dots + u + 1)(u^{190} + u^{189} + \dots - 29u - 1)$
c_{11}	$(u^{46} + u^{45} + \dots - 2u + 1)(u^{190} + 67u^{188} + \dots + 138006u - 17447)$
c_{12}	$(u^{46} + u^{45} + \dots - 2u + 1)(u^{190} + 67u^{188} + \dots - 138006u - 17447)$ 32

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_8	$(y^{46} - 4y^{45} + \dots - 939y + 49)$ $\cdot (y^{190} - 19y^{189} + \dots + 1497025y + 39601)$
c_2, c_6	$(y^{46} - 4y^{45} + \dots - 32y + 1)(y^{190} - 23y^{189} + \dots - 252y + 1)$
c_3,c_5	$(y^{46} - 29y^{45} + \dots - 2522y + 121)$ $\cdot (y^{190} - 88y^{189} + \dots - 175498183281035406y + 2901187542704929)$
c_4, c_7, c_{11} c_{12}	$(y^{46} + 41y^{45} + \dots - 30y + 1)$ $\cdot (y^{190} + 134y^{189} + \dots + 46421594y + 304397809)$
c_9, c_{10}	$(y^{46} + 22y^{45} + \dots + 27y + 1)(y^{190} + 23y^{189} + \dots - 149y + 1)$