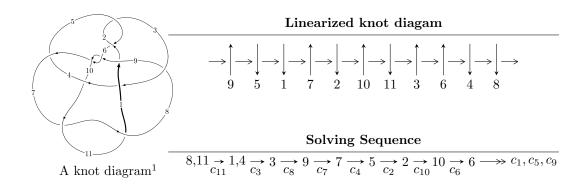
$11a_{289} (K11a_{289})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -2.33884 \times 10^{224} u^{90} + 2.00374 \times 10^{224} u^{89} + \dots + 1.85594 \times 10^{224} b - 1.47160 \times 10^{225}, \\ &- 6.91616 \times 10^{224} u^{90} - 7.19072 \times 10^{224} u^{89} + \dots + 1.85594 \times 10^{224} a + 1.27904 \times 10^{226}, \\ &u^{91} + u^{90} + \dots - 38u - 1 \rangle \\ I_2^u &= \langle -21753030 u^{18} + 6745274 u^{17} + \dots + 4200133b - 80944935, \\ &2155133 u^{18} - 644977 u^{17} + \dots + 85717a + 7203604, \ u^{19} - 7u^{17} + \dots + 4u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 110 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.
$$I_1^u = \langle -2.34 \times 10^{224} u^{90} + 2.00 \times 10^{224} u^{89} + \dots + 1.86 \times 10^{224} b - 1.47 \times 10^{225}, \ -6.92 \times 10^{224} u^{90} - 7.19 \times 10^{224} u^{89} + \dots + 1.86 \times 10^{224} a + 1.28 \times 10^{226}, \ u^{91} + u^{90} + \dots - 38u - 1 \rangle$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 3.72650u^{90} + 3.87443u^{89} + \dots - 1799.70u - 68.9163 \\ 1.26019u^{90} - 1.07963u^{89} + \dots + 176.719u + 7.92913 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 4.76767u^{90} + 3.17976u^{89} + \dots - 1632.33u - 61.1351 \\ 3.22294u^{90} - 1.26978u^{89} + \dots + 111.798u + 6.19329 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 7.99747u^{90} + 1.78196u^{89} + \dots - 1075.61u - 44.5830 \\ 6.35087u^{90} - 0.377320u^{89} + \dots - 261.022u - 6.24056 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 6.40251u^{90} + 3.66084u^{89} + \dots - 1896.70u - 71.4040 \\ 3.93620u^{90} - 1.29323u^{89} + \dots + 79.7178u + 5.44137 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -1.49138u^{90} + 0.843199u^{89} + \dots + 578.943u + 31.1708 \\ -1.35638u^{90} + 0.0358487u^{89} + \dots + 49.5120u + 0.205445 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 5.66600u^{90} - 1.49334u^{89} + \dots + 485.280u + 37.8985 \\ 8.67471u^{90} + 0.525243u^{89} + \dots + 485.280u + 37.8985 \\ 8.67471u^{90} - 2.29724u^{89} + \dots + 1339.51u + 68.3501 \\ -2.09349u^{90} + 1.35317u^{89} + \dots - 175.967u - 8.47779 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -5.66191u^{90} - 2.29724u^{89} + \dots + 1339.51u + 68.3501 \\ -2.09349u^{90} + 1.35317u^{89} + \dots - 175.967u - 8.47779 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-17.9996u^{90} 14.8667u^{89} + \dots + 4221.76u + 150.087$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{91} - 5u^{90} + \dots + 244460u - 108400$
c_{2}, c_{5}	$u^{91} + 6u^{90} + \dots + 757u + 1751$
<i>c</i> ₃	$u^{91} - 10u^{90} + \dots - 36u + 1$
<i>C</i> ₄	$u^{91} + 9u^{90} + \dots + 25u + 1$
c_6, c_9	$u^{91} - 2u^{90} + \dots - 37u + 1117$
c_{7}, c_{11}	$u^{91} + u^{90} + \dots - 38u - 1$
<i>C</i> ₈	$u^{91} + u^{90} + \dots + 80u + 37$
c_{10}	$u^{91} + 2u^{90} + \dots - 46u + 4$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{91} - 37y^{90} + \dots + 248464929200y - 11750560000$
c_2, c_5	$y^{91} + 58y^{90} + \dots - 43405067y - 3066001$
<i>c</i> ₃	$y^{91} - 10y^{90} + \dots + 128y - 1$
c_4	$y^{91} - 3y^{90} + \dots + 353y - 1$
c_{6}, c_{9}	$y^{91} - 74y^{90} + \dots - 20772597y - 1247689$
c_7, c_{11}	$y^{91} - 65y^{90} + \dots + 218y - 1$
<i>c</i> ₈	$y^{91} + 13y^{90} + \dots - 186888y - 1369$
c_{10}	$y^{91} + 48y^{89} + \dots - 1780y - 16$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.154514 + 1.000430I		
a = 0.105188 + 0.509185I	3.06412 + 2.24647I	0
b = 0.600669 - 0.721061I		
u = 0.154514 - 1.000430I		
a = 0.105188 - 0.509185I	3.06412 - 2.24647I	0
b = 0.600669 + 0.721061I		
u = -0.925483 + 0.337630I		
a = 2.22116 + 0.06041I	5.58118 + 7.27652I	0
b = -0.113347 - 0.257600I		
u = -0.925483 - 0.337630I		
a = 2.22116 - 0.06041I	5.58118 - 7.27652I	0
b = -0.113347 + 0.257600I		
u = 1.021280 + 0.097812I		
a = 0.013238 + 0.538865I	4.96637 + 0.14906I	0
b = 0.028178 - 1.308020I		
u = 1.021280 - 0.097812I		
a = 0.013238 - 0.538865I	4.96637 - 0.14906I	0
b = 0.028178 + 1.308020I		
u = 0.242468 + 1.000660I		
a = 0.286579 - 0.228220I	1.90649 + 1.11668I	0
b = -0.338311 + 0.628821I		
u = 0.242468 - 1.000660I		
a = 0.286579 + 0.228220I	1.90649 - 1.11668I	0
b = -0.338311 - 0.628821I		
u = 0.177856 + 0.940264I		
a = -0.0109358 - 0.0657220I	4.35772 - 5.92655I	0
b = 0.615843 + 1.111660I		
u = 0.177856 - 0.940264I		
a = -0.0109358 + 0.0657220I	4.35772 + 5.92655I	0
b = 0.615843 - 1.111660I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.853700 + 0.606656I		
a = 0.672847 + 0.305259I	2.01129 + 0.63862I	0
b = -0.160836 + 0.461008I		
u = 0.853700 - 0.606656I		
a = 0.672847 - 0.305259I	2.01129 - 0.63862I	0
b = -0.160836 - 0.461008I		
u = -0.254816 + 0.881587I		
a = 0.137178 - 0.146852I	0.01106 + 2.05657I	0
b = 0.310437 - 0.630125I		
u = -0.254816 - 0.881587I		
a = 0.137178 + 0.146852I	0.01106 - 2.05657I	0
b = 0.310437 + 0.630125I		
u = -0.638896 + 0.646429I		
a = -0.178496 + 1.303700I	6.40508 - 3.26778I	0
b = 0.198949 - 0.951481I		
u = -0.638896 - 0.646429I		
a = -0.178496 - 1.303700I	6.40508 + 3.26778I	0
b = 0.198949 + 0.951481I		
u = 0.445566 + 0.776682I		
a = -0.420019 - 0.743253I	8.11082 + 3.81719I	0
b = 0.648716 - 1.061710I		
u = 0.445566 - 0.776682I		
a = -0.420019 + 0.743253I	8.11082 - 3.81719I	0
b = 0.648716 + 1.061710I		
u = -1.102810 + 0.120356I		
a = 1.112970 + 0.716630I	-0.86513 + 3.43410I	0
b = 1.03514 + 1.52926I		
u = -1.102810 - 0.120356I		
a = 1.112970 - 0.716630I	-0.86513 - 3.43410I	0
b = 1.03514 - 1.52926I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.036080 + 0.399219I		
a = -1.86514 - 0.23806I	6.27718 - 8.20883I	0
b = -1.39914 - 1.31114I		
u = 1.036080 - 0.399219I		
a = -1.86514 + 0.23806I	6.27718 + 8.20883I	0
b = -1.39914 + 1.31114I		
u = -1.122850 + 0.028210I		
a = -1.87730 + 0.53457I	-3.52236 + 1.23004I	0
b = -1.36440 + 1.26320I		
u = -1.122850 - 0.028210I		
a = -1.87730 - 0.53457I	-3.52236 - 1.23004I	0
b = -1.36440 - 1.26320I		
u = 1.088340 + 0.354136I		
a = 1.88933 - 0.00662I	1.41670 - 5.22000I	0
b = 0.689405 + 0.508116I		
u = 1.088340 - 0.354136I		
a = 1.88933 + 0.00662I	1.41670 + 5.22000I	0
b = 0.689405 - 0.508116I		
u = 0.107319 + 1.155390I		
a = -0.0450787 + 0.0302813I	8.3586 - 11.6518I	0
b = -0.666347 - 1.032170I		
u = 0.107319 - 1.155390I		
a = -0.0450787 - 0.0302813I	8.3586 + 11.6518I	0
b = -0.666347 + 1.032170I		
u = -1.160610 + 0.125188I		
a = 2.07171 + 0.76197I	2.65519 + 7.24321I	0
b = 0.835112 - 0.755768I		
u = -1.160610 - 0.125188I		
a = 2.07171 - 0.76197I	2.65519 - 7.24321I	0
b = 0.835112 + 0.755768I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.18021		
a = -2.85483	-2.49691	0
b = -1.34979		
u = 1.186300 + 0.048699I		
a = -1.59766 - 0.40123I	-4.89749 - 1.53348I	0
b = -0.878174 + 0.318552I		
u = 1.186300 - 0.048699I		
a = -1.59766 + 0.40123I	-4.89749 + 1.53348I	0
b = -0.878174 - 0.318552I		
u = -1.182020 + 0.116137I		
a = 1.273900 - 0.281879I	-2.65839 + 0.87469I	0
b = 1.120750 - 0.771869I		
u = -1.182020 - 0.116137I		
a = 1.273900 + 0.281879I	-2.65839 - 0.87469I	0
b = 1.120750 + 0.771869I		
u = 1.180210 + 0.162238I		
a = 1.040030 - 0.496367I	-2.79141 - 4.21603I	0
b = 0.644086 + 0.744559I		
u = 1.180210 - 0.162238I		
a = 1.040030 + 0.496367I	-2.79141 + 4.21603I	0
b = 0.644086 - 0.744559I		
u = -0.652969 + 0.474285I		
a = -1.09565 - 1.00396I	1.29512 + 2.45316I	0
b = -0.972670 + 0.215028I		
u = -0.652969 - 0.474285I		
a = -1.09565 + 1.00396I	1.29512 - 2.45316I	0
b = -0.972670 - 0.215028I		
u = 1.189900 + 0.165844I		
a = 1.98196 - 0.66468I	2.09247 - 7.92588I	0
b = 2.04084 - 0.86369I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.189900 - 0.165844I		
a = 1.98196 + 0.66468I	2.09247 + 7.92588I	0
b = 2.04084 + 0.86369I		
u = -1.157580 + 0.336921I		
a = -0.556616 - 0.531666I	-1.22092 + 2.30068I	0
b = -0.493201 - 0.788878I		
u = -1.157580 - 0.336921I		
a = -0.556616 + 0.531666I	-1.22092 - 2.30068I	0
b = -0.493201 + 0.788878I		
u = 1.21568		
a = -2.64009	-3.13944	0
b = -2.59413		
u = 0.384760 + 0.675310I		
a = -0.278767 - 0.486904I	3.59264 + 1.28182I	5.23084 + 0.I
b = -0.344151 + 0.878398I		
u = 0.384760 - 0.675310I		
a = -0.278767 + 0.486904I	3.59264 - 1.28182I	5.23084 + 0.I
b = -0.344151 - 0.878398I		
u = 0.742449 + 0.188337I		
a = -1.55951 - 1.79492I	5.66154 - 1.41791I	1.45782 + 3.29961I
b = -0.000176 - 0.473465I		
u = 0.742449 - 0.188337I		
a = -1.55951 + 1.79492I	5.66154 + 1.41791I	1.45782 - 3.29961I
b = -0.000176 + 0.473465I		
u = -1.206280 + 0.364725I		
a = 2.03871 - 0.29594I	5.59028 + 4.35769I	0
b = 1.30237 - 1.17332I		
u = -1.206280 - 0.364725I		
a = 2.03871 + 0.29594I	5.59028 - 4.35769I	0
b = 1.30237 + 1.17332I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.111033 + 0.728216I		
a = 0.126141 - 0.073845I	8.95711 - 0.33313I	8.32553 + 0.37349I
b = -0.716226 - 1.210120I		
u = -0.111033 - 0.728216I		
a = 0.126141 + 0.073845I	8.95711 + 0.33313I	8.32553 - 0.37349I
b = -0.716226 + 1.210120I		
u = -0.108439 + 0.723146I		
a = 1.007320 - 0.414367I	3.40759 + 0.78642I	2.69705 - 0.95790I
b = -0.285144 + 0.976899I		
u = -0.108439 - 0.723146I		
a = 1.007320 + 0.414367I	3.40759 - 0.78642I	2.69705 + 0.95790I
b = -0.285144 - 0.976899I		
u = -1.252140 + 0.238107I		
a = -0.889184 + 0.812716I	-0.24585 + 2.81188I	0
b = -0.0532821 + 0.1257370I		
u = -1.252140 - 0.238107I		
a = -0.889184 - 0.812716I	-0.24585 - 2.81188I	0
b = -0.0532821 - 0.1257370I		
u = -0.076027 + 1.282950I		
a = 0.011447 + 0.142790I	2.33628 + 5.25645I	0
b = -0.464789 + 0.521507I		
u = -0.076027 - 1.282950I		
a = 0.011447 - 0.142790I	2.33628 - 5.25645I	0
b = -0.464789 - 0.521507I		
u = 1.275300 + 0.163827I		
a = 0.688235 + 1.032460I	-1.17722 - 3.75603I	0
b = 0.55547 + 1.93773I		
u = 1.275300 - 0.163827I		
a = 0.688235 - 1.032460I	-1.17722 + 3.75603I	0
b = 0.55547 - 1.93773I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.307530 + 0.476334I		
a = 1.246040 - 0.069703I	-1.76672 - 6.33798I	0
b = 0.898713 + 1.080480I		
u = 1.307530 - 0.476334I		
a = 1.246040 + 0.069703I	-1.76672 + 6.33798I	0
b = 0.898713 - 1.080480I		
u = 1.31886 + 0.56606I		
a = -1.308320 + 0.259548I	-0.57560 - 7.98468I	0
b = -0.787261 - 1.024100I		
u = 1.31886 - 0.56606I		
a = -1.308320 - 0.259548I	-0.57560 + 7.98468I	0
b = -0.787261 + 1.024100I		
u = 1.37950 + 0.43905I		
a = -1.370230 - 0.119084I	-4.95903 - 6.92588I	0
b = -1.078280 - 0.817964I		
u = 1.37950 - 0.43905I		
a = -1.370230 + 0.119084I	-4.95903 + 6.92588I	0
b = -1.078280 + 0.817964I		
u = -1.38281 + 0.43401I		
a = -1.61543 + 0.36310I	-0.50912 + 10.85460I	0
b = -1.15059 + 1.32568I		
u = -1.38281 - 0.43401I		
a = -1.61543 - 0.36310I	-0.50912 - 10.85460I	0
b = -1.15059 - 1.32568I		
u = -1.42369 + 0.35800I		
a = 0.945721 - 0.055490I	-3.55361 + 0.99335I	0
b = 0.859159 - 0.722591I		
u = -1.42369 - 0.35800I		
a = 0.945721 + 0.055490I	-3.55361 - 0.99335I	0
b = 0.859159 + 0.722591I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.36659 + 0.56938I		
a = -0.664984 - 0.131205I	-1.16547 + 2.61720I	0
b = -0.556829 - 0.042970I		
u = -1.36659 - 0.56938I		
a = -0.664984 + 0.131205I	-1.16547 - 2.61720I	0
b = -0.556829 + 0.042970I		
u = -1.29894 + 0.73144I		
a = 0.745343 + 0.279706I	-0.26793 + 3.39964I	0
b = 0.921207 - 0.133086I		
u = -1.29894 - 0.73144I		
a = 0.745343 - 0.279706I	-0.26793 - 3.39964I	0
b = 0.921207 + 0.133086I		
u = -1.40518 + 0.52888I		
a = 1.50498 - 0.17996I	3.6407 + 17.5515I	0
b = 1.09047 - 1.26911I		
u = -1.40518 - 0.52888I		
a = 1.50498 + 0.17996I	3.6407 - 17.5515I	0
b = 1.09047 + 1.26911I		
u = 1.40186 + 0.55296I		
a = 1.263570 + 0.016688I	-2.28030 - 11.49490I	0
b = 1.12314 + 0.88528I		
u = 1.40186 - 0.55296I		
a = 1.263570 - 0.016688I	-2.28030 + 11.49490I	0
b = 1.12314 - 0.88528I		
u = 1.53245 + 0.10660I		
a = 0.161918 - 0.793466I	3.82025 - 2.68111I	0
b = 0.293938 - 0.826547I		
u = 1.53245 - 0.10660I		
a = 0.161918 + 0.793466I	3.82025 + 2.68111I	0
b = 0.293938 + 0.826547I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.44221 + 0.56336I		
a = -0.816698 - 0.016295I	-3.54164 + 5.12239I	0
b = -0.598691 + 0.733628I		
u = -1.44221 - 0.56336I		
a = -0.816698 + 0.016295I	-3.54164 - 5.12239I	0
b = -0.598691 - 0.733628I		
u = -0.368779 + 0.110817I		
a = -1.79536 - 2.58891I	1.19636 + 2.45261I	-0.717024 - 0.766803I
b = -0.816998 - 0.117532I		
u = -0.368779 - 0.110817I		
a = -1.79536 + 2.58891I	1.19636 - 2.45261I	-0.717024 + 0.766803I
b = -0.816998 + 0.117532I		
u = 1.38721 + 1.01014I		
a = -0.186583 - 0.220285I	4.73531 + 4.60663I	0
b = 0.172084 - 0.445375I		
u = 1.38721 - 1.01014I		
a = -0.186583 + 0.220285I	4.73531 - 4.60663I	0
b = 0.172084 + 0.445375I		
u = -0.178246 + 0.041738I		
a = 1.23300 - 3.24629I	-1.14670 + 1.01760I	-7.01569 - 3.15061I
b = 0.634063 - 0.439863I		
u = -0.178246 - 0.041738I		
a = 1.23300 + 3.24629I	-1.14670 - 1.01760I	-7.01569 + 3.15061I
b = 0.634063 + 0.439863I		
u = -0.0746543 + 0.0952110I		
a = 1.77275 + 9.76874I	5.66062 + 6.42858I	4.18077 - 5.08743I
b = -1.077510 + 0.073135I		
u = -0.0746543 - 0.0952110I		
a = 1.77275 - 9.76874I	5.66062 - 6.42858I	4.18077 + 5.08743I
b = -1.077510 - 0.073135I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.0762905		
a = -9.34370	0.594707	14.6100
b = 1.33912		

$$II. \\ I_2^u = \langle -2.18 \times 10^7 u^{18} + 6.75 \times 10^6 u^{17} + \dots + 4.20 \times 10^6 b - 8.09 \times 10^7, \ 2.16 \times 10^6 u^{18} - 6.45 \times 10^5 u^{17} + \dots + 8.57 \times 10^4 a + 7.20 \times 10^6, \ u^{19} - 7 u^{17} + \dots + 4 u + 1 \rangle$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} -25.1424u^{18} + 7.52449u^{17} + \dots - 55.3865u - 84.0394 \\ 5.17913u^{18} - 1.60597u^{17} + \dots + 15.0703u + 19.2720 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -17.0714u^{18} + 5.18151u^{17} + \dots - 35.3606u - 57.2429 \\ 6.31136u^{18} - 1.60760u^{17} + \dots + 16.3713u + 21.6150 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -13.3715u^{18} + 4.54857u^{17} + \dots - 35.2371u - 43.3166 \\ 1.94298u^{18} - 0.557214u^{17} + \dots + 8.03710u + 6.25202 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} -22.4896u^{18} + 6.87259u^{17} + \dots - 49.1862u - 74.9089 \\ 7.83195u^{18} - 2.25787u^{17} + \dots + 21.2706u + 28.4025 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -26.8720u^{18} + 8.45143u^{17} + \dots - 65.5699u - 88.5854 \\ 8.06329u^{18} - 2.48624u^{17} + \dots + 20.4130u + 24.7635 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 3.55883u^{18} - 1.36223u^{17} + \dots + 19.7553u + 11.9319 \\ 1.28891u^{18} - 0.0106904u^{17} + \dots - 1.10453u + 5.13136 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -9.79070u^{18} + 3.22584u^{17} + \dots - 31.9356u - 28.8417 \\ -1.34165u^{18} + 0.268330u^{17} + \dots + 3.99462u - 3.76913 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -9.79070u^{18} + 3.22584u^{17} + \dots - 31.9356u - 28.8417 \\ -1.34165u^{18} + 0.268330u^{17} + \dots + 3.99462u - 3.76913 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{15291933}{4200133}u^{18} + \frac{12321059}{4200133}u^{17} + \dots - \frac{152094849}{4200133}u - \frac{21932593}{4200133}u^{18} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{19} - u^{17} + \dots - 6u + 1$
<i>c</i> ₂	$u^{19} - 7u^{18} + \dots + 3u - 1$
c_3	$u^{19} + 3u^{18} + \dots + 2u + 1$
c_4	$u^{19} + 2u^{18} + \dots + u - 1$
c_5	$u^{19} + 7u^{18} + \dots + 3u + 1$
c_6	$u^{19} - u^{18} + \dots + 5u + 1$
<i>C</i> ₇	$u^{19} - 7u^{17} + \dots + 4u - 1$
c_8	$u^{19} + 2u^{17} + \dots - 4u - 1$
<i>c</i> ₉	$u^{19} + u^{18} + \dots + 5u - 1$
c_{10}	$u^{19} + u^{18} + \dots - 3u - 1$
c_{11}	$u^{19} - 7u^{17} + \dots + 4u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{19} - 2y^{18} + \dots + 46y - 1$
c_{2}, c_{5}	$y^{19} + 9y^{18} + \dots - 15y - 1$
<i>c</i> ₃	$y^{19} - 11y^{18} + \dots - 4y - 1$
c_4	$y^{19} - 4y^{18} + \dots + 13y - 1$
c_{6}, c_{9}	$y^{19} - 15y^{18} + \dots + 31y - 1$
c_7, c_{11}	$y^{19} - 14y^{18} + \dots + 34y - 1$
<i>C</i> ₈	$y^{19} + 4y^{18} + \dots + 20y - 1$
c_{10}	$y^{19} - 5y^{18} + \dots + 7y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.902050 + 0.440922I		
a = 1.29528 + 0.89523I	1.07481 + 3.59303I	1.85303 - 6.27936I
b = 0.885527 + 0.260151I		
u = -0.902050 - 0.440922I		
a = 1.29528 - 0.89523I	1.07481 - 3.59303I	1.85303 + 6.27936I
b = 0.885527 - 0.260151I		
u = 1.046970 + 0.221511I		
a = 2.62393 - 0.46352I	4.18748 - 7.46692I	0.68601 + 7.12186I
b = 1.231950 + 0.460773I		
u = 1.046970 - 0.221511I		
a = 2.62393 + 0.46352I	4.18748 + 7.46692I	0.68601 - 7.12186I
b = 1.231950 - 0.460773I		
u = 0.181662 + 1.102620I		
a = 0.045455 + 0.295621I	1.52252 + 1.49664I	-3.89516 - 6.49895I
b = 0.374502 - 0.679785I		
u = 0.181662 - 1.102620I		
a = 0.045455 - 0.295621I	1.52252 - 1.49664I	-3.89516 + 6.49895I
b = 0.374502 + 0.679785I		
u = 1.15625		
a = -2.93116	-2.00951	6.42100
b = -1.75912		
u = -1.20332		
a = -2.14423	-4.29705	-11.5820
b = -1.89620		
u = -1.190800 + 0.183606I		
a = 0.356038 - 0.628895I	-2.76558 + 2.81350I	-6.40568 - 3.99689I
b = 0.22938 - 1.46060I		
u = -1.190800 - 0.183606I		
a = 0.356038 + 0.628895I	-2.76558 - 2.81350I	-6.40568 + 3.99689I
b = 0.22938 + 1.46060I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.074980 + 0.774345I		
a = 0.107142 - 0.133196I	4.37500 + 4.45907I	-2.91018 - 2.82289I
b = -0.376064 + 0.262990I		
u = 1.074980 - 0.774345I		
a = 0.107142 + 0.133196I	4.37500 - 4.45907I	-2.91018 + 2.82289I
b = -0.376064 - 0.262990I		
u = 1.34582 + 0.53742I		
a = -1.229490 + 0.069469I	-2.28215 - 7.33988I	-2.94229 + 7.63490I
b = -0.819545 - 1.038970I		
u = 1.34582 - 0.53742I		
a = -1.229490 - 0.069469I	-2.28215 + 7.33988I	-2.94229 - 7.63490I
b = -0.819545 + 1.038970I		
u = 0.396490		
a = -0.627182	0.209729	-6.87110
b = 1.04929		
u = -1.43107 + 0.74517I		
a = -0.566803 - 0.131223I	-1.39573 + 2.97014I	-10.6875 - 11.6449I
b = -0.593080 + 0.191455I		
u = -1.43107 - 0.74517I		
a = -0.566803 + 0.131223I	-1.39573 - 2.97014I	-10.6875 + 11.6449I
b = -0.593080 - 0.191455I		
u = -0.300228 + 0.011192I		
a = -1.28027 - 4.35057I	6.55674 - 0.70090I	7.81789 - 0.38025I
b = -0.129658 + 1.005580I		
u = -0.300228 - 0.011192I		
a = -1.28027 + 4.35057I	6.55674 + 0.70090I	7.81789 + 0.38025I
b = -0.129658 - 1.005580I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{19} - u^{17} + \dots - 6u + 1)(u^{91} - 5u^{90} + \dots + 244460u - 108400) \right $
c_2	$ (u^{19} - 7u^{18} + \dots + 3u - 1)(u^{91} + 6u^{90} + \dots + 757u + 1751) $
c_3	$ (u^{19} + 3u^{18} + \dots + 2u + 1)(u^{91} - 10u^{90} + \dots - 36u + 1) $
c_4	$(u^{19} + 2u^{18} + \dots + u - 1)(u^{91} + 9u^{90} + \dots + 25u + 1)$
c_5	$(u^{19} + 7u^{18} + \dots + 3u + 1)(u^{91} + 6u^{90} + \dots + 757u + 1751)$
c_6	$(u^{19} - u^{18} + \dots + 5u + 1)(u^{91} - 2u^{90} + \dots - 37u + 1117)$
c_7	$ (u^{19} - 7u^{17} + \dots + 4u - 1)(u^{91} + u^{90} + \dots - 38u - 1) $
c_8	$ (u^{19} + 2u^{17} + \dots - 4u - 1)(u^{91} + u^{90} + \dots + 80u + 37) $
c_9	$(u^{19} + u^{18} + \dots + 5u - 1)(u^{91} - 2u^{90} + \dots - 37u + 1117)$
c_{10}	$(u^{19} + u^{18} + \dots - 3u - 1)(u^{91} + 2u^{90} + \dots - 46u + 4)$
c_{11}	$(u^{19} - 7u^{17} + \dots + 4u + 1)(u^{91} + u^{90} + \dots - 38u - 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{19} - 2y^{18} + \dots + 46y - 1)$ $\cdot (y^{91} - 37y^{90} + \dots + 248464929200y - 11750560000)$
c_2,c_5	$(y^{19} + 9y^{18} + \dots - 15y - 1)$ $\cdot (y^{91} + 58y^{90} + \dots - 43405067y - 3066001)$
c_3	$(y^{19} - 11y^{18} + \dots - 4y - 1)(y^{91} - 10y^{90} + \dots + 128y - 1)$
C ₄	$(y^{19} - 4y^{18} + \dots + 13y - 1)(y^{91} - 3y^{90} + \dots + 353y - 1)$
c_6,c_9	$(y^{19} - 15y^{18} + \dots + 31y - 1)$ $\cdot (y^{91} - 74y^{90} + \dots - 20772597y - 1247689)$
c_7, c_{11}	$(y^{19} - 14y^{18} + \dots + 34y - 1)(y^{91} - 65y^{90} + \dots + 218y - 1)$
c ₈	$(y^{19} + 4y^{18} + \dots + 20y - 1)(y^{91} + 13y^{90} + \dots - 186888y - 1369)$
c_{10}	$(y^{19} - 5y^{18} + \dots + 7y - 1)(y^{91} + 48y^{89} + \dots - 1780y - 16)$