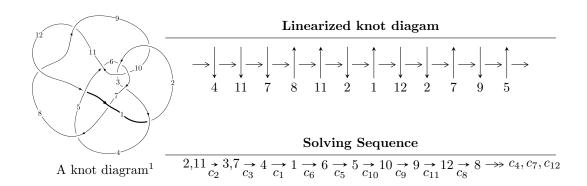
$12n_{0705} \ (K12n_{0705})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 2.19181 \times 10^{382} u^{75} + 6.42258 \times 10^{381} u^{74} + \dots + 4.60404 \times 10^{387} b + 1.33471 \times 10^{388}, \\ &- 2.21394 \times 10^{388} u^{75} + 1.64912 \times 10^{388} u^{74} + \dots + 7.19321 \times 10^{392} a - 4.98498 \times 10^{393}, \\ &u^{76} - u^{75} + \dots - 23760 u + 74007 \rangle \\ I_2^u &= \langle -149224377175319 u^{21} + 98709240274610 u^{20} + \dots + 96703178408689 b - 82488765402898, \\ &360716486705467 u^{21} - 113938156490740 u^{20} + \dots + 96703178408689 a + 729010725759272, \\ &u^{22} + 6 u^{20} + \dots + 3 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 98 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.
$$I_1^u = \langle 2.19 \times 10^{382} u^{75} + 6.42 \times 10^{381} u^{74} + \cdots + 4.60 \times 10^{387} b + 1.33 \times 10^{388}, \ -2.21 \times 10^{388} u^{75} + 1.65 \times 10^{388} u^{74} + \cdots + 7.19 \times 10^{392} a - 4.98 \times 10^{393}, \ u^{76} - u^{75} + \cdots - 23760 u + 74007 \rangle$$

(i) Arc colorings

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

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

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

$$a_{7} = \begin{pmatrix} 0.0000307782u^{75} - 0.0000229260u^{74} + \dots + 20.3789u + 6.93012 \\ -4.76062 \times 10^{-6}u^{75} - 1.39499 \times 10^{-6}u^{74} + \dots - 0.757161u - 2.89899 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -7.78630 \times 10^{-6}u^{75} - 1.40375 \times 10^{-6}u^{74} + \dots + 0.0566661u - 7.56840 \\ -9.12142 \times 10^{-6}u^{75} + 8.62552 \times 10^{-6}u^{74} + \dots + 5.37177u + 1.51302 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.0000221139u^{75} + 0.0000317720u^{74} + \dots - 22.3602u + 6.91672 \\ 6.38702 \times 10^{-6}u^{75} - 3.29061 \times 10^{-6}u^{74} + \dots + 6.79986u + 0.825307 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0000260176u^{75} - 0.0000243210u^{74} + \dots + 19.6217u + 4.03113 \\ -4.76062 \times 10^{-6}u^{75} - 1.39499 \times 10^{-6}u^{74} + \dots - 0.757161u - 2.89899 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.0000260176u^{75} - 0.0000243210u^{74} + \dots + 19.6217u + 4.03113 \\ -6.93011 \times 10^{-6}u^{75} + 1.21906 \times 10^{-6}u^{74} + \dots - 2.64233u - 3.02455 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 6.72650 \times 10^{-6}u^{75} + 0.0000218094u^{74} + \dots + 19.6217u + 4.03113 \\ -6.72650 \times 10^{-6}u^{75} - 0.0000117617u^{74} + \dots + 10.6096u - 1.69248 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 2.03866 \times 10^{-6}u^{75} - 0.0000117617u^{74} + \dots + 10.6096u - 1.69248 \\ 8.76516 \times 10^{-6}u^{75} - 0.0000117617u^{74} + \dots + 10.6096u - 1.69248 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.0000523639u^{75} + 0.0000528643u^{74} + \dots + 3.57479u + 4.99056 \\ 8.63617 \times 10^{-6}u^{75} - 3.40978 \times 10^{-6}u^{74} + \dots + 3.57479u + 4.99056 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.0000265357u^{75} - 0.0000320384u^{74} + \dots + 3.57479u + 4.99056 \\ -0.0000162618u^{75} + 0.0000181990u^{74} + \dots + 3.57479u + 5.9056 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.0000191588u^{75} 0.0000387698u^{74} + \cdots 0.636809u 2.73074$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{76} - 10u^{75} + \dots - 221u + 17$
c_2	$u^{76} - u^{75} + \dots - 23760u + 74007$
c_3	$u^{76} + 2u^{75} + \dots - 19464u + 3677$
<i>C</i> ₄	$u^{76} - 2u^{75} + \dots + 549u + 207$
<i>C</i> 5	$u^{76} - u^{75} + \dots + 34842166u + 3425393$
<i>C</i> ₆	$u^{76} + 53u^{74} + \dots + 7437u + 763$
C ₇	$u^{76} - 7u^{75} + \dots + 27u + 1$
c_8, c_{11}	$u^{76} - 9u^{75} + \dots - 362u + 19$
C ₉	$u^{76} - 8u^{75} + \dots + 57253563u + 3204791$
c_{10}	$u^{76} - 9u^{75} + \dots - 530u + 1279$
c_{12}	$u^{76} - 6u^{75} + \dots + 78u + 35$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{76} + 18y^{75} + \dots - 2227y + 289$
c_2	$y^{76} + 93y^{75} + \dots + 236846070036y + 5477036049$
<i>C</i> ₃	$y^{76} + 20y^{75} + \dots + 475032998y + 13520329$
C4	$y^{76} - 14y^{75} + \dots - 1120293y + 42849$
<i>C</i> ₅	$y^{76} - 57y^{75} + \dots - 439239317966814y + 11733317204449$
<i>c</i> ₆	$y^{76} + 106y^{75} + \dots + 5285439y + 582169$
c_7	$y^{76} + 15y^{75} + \dots - 7y + 1$
c_8,c_{11}	$y^{76} + 63y^{75} + \dots + 208y + 361$
<i>c</i> ₉	$y^{76} + 128y^{75} + \dots + 7840289593898607y + 10270685353681$
c_{10}	$y^{76} - 105y^{75} + \dots - 4524622y + 1635841$
c_{12}	$y^{76} - 8y^{75} + \dots - 58374y + 1225$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.009200 + 0.019949I		
a = -0.755402 + 0.769566I	0.24108 - 3.09498I	-7.87234 + 7.34515I
b = -0.141359 - 0.446045I		
u = 1.009200 - 0.019949I		
a = -0.755402 - 0.769566I	0.24108 + 3.09498I	-7.87234 - 7.34515I
b = -0.141359 + 0.446045I		
u = -0.165558 + 0.962769I		
a = -0.682721 + 0.385052I	-1.18877 + 0.93128I	-6.34635 - 7.99915I
b = -0.846371 - 0.090077I		
u = -0.165558 - 0.962769I		
a = -0.682721 - 0.385052I	-1.18877 - 0.93128I	-6.34635 + 7.99915I
b = -0.846371 + 0.090077I		
u = -0.895115 + 0.388201I	4 40000 . 0 500057	2
a = -0.560008 + 0.114830I	-1.46389 + 0.73897I	-3.77155 + 0.I
$\frac{b = -0.259160 + 0.201495I}{u = -0.895115 - 0.388201I}$		
	1 46900 0 790071	2 77155 + 0 7
a = -0.560008 - 0.114830I	-1.46389 - 0.73897I	-3.77155 + 0.I
b = -0.259160 - 0.201495I $u = 0.810100 + 0.696527I$		
a = -0.338242 + 0.436580I $a = -0.338242 + 0.436580I$	4.06725 - 2.79115I	0
a = -0.338242 + 0.430380I $b = 0.218121 + 0.101852I$	4.00725 - 2.791151	U
u = 0.810100 - 0.696527I		
a = -0.338242 - 0.436580I	4.06725 + 2.79115I	0
b = 0.218121 - 0.101852I	1.00720 2.701101	V
$\frac{v = 0.216121 - 0.1616921}{u = 0.564725 + 0.948830I}$		
a = -0.645295 - 0.262477I	3.85710 - 3.89576I	0
b = 0.150567 - 0.619486I		-
u = 0.564725 - 0.948830I		
a = -0.645295 + 0.262477I	3.85710 + 3.89576I	0
b = 0.150567 + 0.619486I		
-	l .	1

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.046617 + 1.142370I		
a = -0.63482 + 2.26238I	4.62267 + 0.14372I	0
b = 0.79960 - 2.66733I		
u = 0.046617 - 1.142370I		
a = -0.63482 - 2.26238I	4.62267 - 0.14372I	0
b = 0.79960 + 2.66733I		
u = 1.150780 + 0.219130I		
a = 0.522685 + 0.399011I	-0.65964 - 4.41450I	0
b = -0.094055 - 0.540195I		
u = 1.150780 - 0.219130I		
a = 0.522685 - 0.399011I	-0.65964 + 4.41450I	0
b = -0.094055 + 0.540195I		
u = -0.592031 + 0.568502I		
a = 1.33340 - 0.84287I	-1.42596 - 3.59118I	-1.75527 + 3.21770I
b = -0.193442 + 0.277813I		
u = -0.592031 - 0.568502I		
a = 1.33340 + 0.84287I	-1.42596 + 3.59118I	-1.75527 - 3.21770I
b = -0.193442 - 0.277813I		
u = 1.164960 + 0.183393I		
a = -0.472076 + 0.327161I	0.967603 - 0.985142I	0
b = -1.356770 + 0.193388I		
u = 1.164960 - 0.183393I		
a = -0.472076 - 0.327161I	0.967603 + 0.985142I	0
b = -1.356770 - 0.193388I		
u = -0.520526 + 0.633146I		
a = -0.375631 + 0.423504I	2.52872 - 8.60121I	1.83866 + 3.84455I
b = 1.47986 + 0.80086I		
u = -0.520526 - 0.633146I		
a = -0.375631 - 0.423504I	2.52872 + 8.60121I	1.83866 - 3.84455I
b = 1.47986 - 0.80086I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.294916 + 0.746389I		
a = 1.98912 - 0.26808I	3.01635 + 9.32304I	3.19894 - 5.62741I
b = -0.433848 - 0.020928I		
u = 0.294916 - 0.746389I		
a = 1.98912 + 0.26808I	3.01635 - 9.32304I	3.19894 + 5.62741I
b = -0.433848 + 0.020928I		
u = -0.771153 + 0.130660I		
a = -1.040020 - 0.437054I	4.69688 - 2.57649I	1.57467 + 2.30402I
b = -0.083499 - 0.951857I		
u = -0.771153 - 0.130660I		
a = -1.040020 + 0.437054I	4.69688 + 2.57649I	1.57467 - 2.30402I
b = -0.083499 + 0.951857I		
u = 0.131578 + 0.739838I		
a = -1.68627 - 0.52919I	4.44676 + 0.47633I	7.82049 - 1.23300I
b = 1.321970 - 0.419785I		
u = 0.131578 - 0.739838I		
a = -1.68627 + 0.52919I	4.44676 - 0.47633I	7.82049 + 1.23300I
b = 1.321970 + 0.419785I		
u = -0.365970 + 0.650492I		
a = -0.923300 + 0.352826I	-1.30459 + 1.15321I	-3.91266 - 5.89962I
b = -0.405458 + 0.239034I		
u = -0.365970 - 0.650492I		
a = -0.923300 - 0.352826I	-1.30459 - 1.15321I	-3.91266 + 5.89962I
b = -0.405458 - 0.239034I		
u = 0.027626 + 1.265550I		
a = -0.18747 + 1.64404I	4.64117 + 0.14396I	0
b = 0.41367 - 2.13372I		
u = 0.027626 - 1.265550I		
a = -0.18747 - 1.64404I	4.64117 - 0.14396I	0
b = 0.41367 + 2.13372I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.050630 + 0.743716I		
a = -0.260234 - 0.008456I	-0.025364 - 0.694709I	0
b = -1.151120 - 0.614051I		
u = -1.050630 - 0.743716I		
a = -0.260234 + 0.008456I	-0.025364 + 0.694709I	0
b = -1.151120 + 0.614051I		
u = 0.966250 + 0.854364I		
a = 0.030557 + 0.171811I	4.18587 - 3.26120I	0
b = 0.284472 - 0.438444I		
u = 0.966250 - 0.854364I		
a = 0.030557 - 0.171811I	4.18587 + 3.26120I	0
b = 0.284472 + 0.438444I		
u = -0.030321 + 0.608824I		
a = -0.377141 - 0.458763I	-1.19917 + 5.41165I	1.34156 - 7.26392I
b = 1.236080 - 0.334684I		
u = -0.030321 - 0.608824I		
a = -0.377141 + 0.458763I	-1.19917 - 5.41165I	1.34156 + 7.26392I
b = 1.236080 + 0.334684I		
u = 0.356043 + 0.423213I		
a = -2.08467 - 0.32556I	0.24691 + 2.62762I	0.32414 - 5.86582I
b = -0.069706 + 0.303853I		
u = 0.356043 - 0.423213I		
a = -2.08467 + 0.32556I	0.24691 - 2.62762I	0.32414 + 5.86582I
b = -0.069706 - 0.303853I		
u = -0.24387 + 1.47515I		
a = 0.017377 - 1.220120I	11.22230 + 0.28649I	0
b = 0.44822 + 1.78089I		
u = -0.24387 - 1.47515I		
a = 0.017377 + 1.220120I	11.22230 - 0.28649I	0
b = 0.44822 - 1.78089I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.327271 + 0.358349I		
a = -0.886714 - 0.274566I	-1.90605 + 1.11051I	2.44459 + 0.53234I
b = -1.045100 + 0.416367I		
u = -0.327271 - 0.358349I		
a = -0.886714 + 0.274566I	-1.90605 - 1.11051I	2.44459 - 0.53234I
b = -1.045100 - 0.416367I		
u = -1.42583 + 0.57546I		
a = 0.498504 + 0.022033I	4.46008 + 9.11025I	0
b = 0.479276 + 0.563280I		
u = -1.42583 - 0.57546I		
a = 0.498504 - 0.022033I	4.46008 - 9.11025I	0
b = 0.479276 - 0.563280I		
u = 0.250236 + 0.342228I		
a = -1.226160 + 0.462405I	1.39381 + 0.89309I	4.09738 - 0.87482I
b = 0.309303 + 0.470318I		
u = 0.250236 - 0.342228I		
a = -1.226160 - 0.462405I	1.39381 - 0.89309I	4.09738 + 0.87482I
b = 0.309303 - 0.470318I		
u = -0.30462 + 1.58289I		
a = -0.159862 - 0.920028I	3.23935 + 3.92724I	0
b = -0.20723 + 1.71520I		
u = -0.30462 - 1.58289I		
a = -0.159862 + 0.920028I	3.23935 - 3.92724I	0
b = -0.20723 - 1.71520I		
u = 0.44818 + 1.58154I		
a = 0.414772 - 0.918491I	11.27930 - 1.44429I	0
b = 0.52106 + 1.85961I		
u = 0.44818 - 1.58154I		
a = 0.414772 + 0.918491I	11.27930 + 1.44429I	0
b = 0.52106 - 1.85961I		

Solutions to I_1^u	$\int \sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.017872 + 0.303347I		
a = 3.82605 + 1.87714I	3.42718 - 1.06387I	2.11989 - 0.34485I
b = -1.132580 + 0.363636I		
u = -0.017872 - 0.303347I		
a = 3.82605 - 1.87714I	3.42718 + 1.06387I	2.11989 + 0.34485I
b = -1.132580 - 0.363636I		
u = 0.25994 + 1.72565I		
a = 0.109906 + 1.123310I	12.4056 - 6.9129I	0
b = -0.39160 - 2.11059I		
u = 0.25994 - 1.72565I		
a = 0.109906 - 1.123310I	12.4056 + 6.9129I	0
b = -0.39160 + 2.11059I		
u = 0.27832 + 1.76522I		
a = 0.022137 - 1.136350I	13.3454 - 7.9741I	0
b = 0.43502 + 1.99701I		
u = 0.27832 - 1.76522I		
a = 0.022137 + 1.136350I	13.3454 + 7.9741I	0
b = 0.43502 - 1.99701I		
u = 0.54424 + 1.73484I		
a = -0.126901 + 1.035400I	6.10244 - 3.92680I	0
b = -0.05331 - 1.76815I		
u = 0.54424 - 1.73484I		
a = -0.126901 - 1.035400I	6.10244 + 3.92680I	0
b = -0.05331 + 1.76815I		
u = -0.08745 + 1.81957I		
a = 0.183051 - 0.960988I	8.17378 + 5.03717I	0
b = -0.02671 + 1.86706I		
u = -0.08745 - 1.81957I		
a = 0.183051 + 0.960988I	8.17378 - 5.03717I	0
b = -0.02671 - 1.86706I		_

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.44832 + 1.79678I		
a = 0.011918 - 1.072770I	6.36319 - 10.94220I	0
b = 0.23871 + 1.75816I		
u = 0.44832 - 1.79678I		
a = 0.011918 + 1.072770I	6.36319 + 10.94220I	0
b = 0.23871 - 1.75816I		
u = 0.33240 + 1.86146I		
a = -0.052763 + 0.804686I	8.73089 - 7.50113I	0
b = -0.52702 - 2.08999I		
u = 0.33240 - 1.86146I		
a = -0.052763 - 0.804686I	8.73089 + 7.50113I	0
b = -0.52702 + 2.08999I		
u = -0.48571 + 1.83508I		
a = -0.079389 + 1.054680I	8.82884 + 2.54421I	0
b = -0.17441 - 1.45972I		
u = -0.48571 - 1.83508I		
a = -0.079389 - 1.054680I	8.82884 - 2.54421I	0
b = -0.17441 + 1.45972I		
u = -0.12198 + 1.91973I		
a = -0.088250 + 1.035080I	8.04212 + 1.07975I	0
b = 0.07581 - 1.61679I		
u = -0.12198 - 1.91973I		
a = -0.088250 - 1.035080I	8.04212 - 1.07975I	0
b = 0.07581 + 1.61679I		
u = -0.53576 + 1.86215I		
a = 0.079592 + 1.028730I	12.2627 + 16.8504I	0
b = 0.39767 - 2.06815I		
u = -0.53576 - 1.86215I		
a = 0.079592 - 1.028730I	12.2627 - 16.8504I	0
b = 0.39767 + 2.06815I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.12813 + 2.03521I		
a = -0.082429 - 0.921487I	13.2288 + 5.7083I	0
b = -0.36312 + 1.77545I		
u = 0.12813 - 2.03521I		
a = -0.082429 + 0.921487I	13.2288 - 5.7083I	0
b = -0.36312 - 1.77545I		
u = -0.17018 + 2.10478I		
a = 0.177794 + 0.752992I	12.29870 - 3.68520I	0
b = 0.49529 - 1.96195I		
u = -0.17018 - 2.10478I		
a = 0.177794 - 0.752992I	12.29870 + 3.68520I	0
b = 0.49529 + 1.96195I		
u = -0.60072 + 2.06916I		
a = -0.125600 - 0.868073I	9.43831 + 8.00299I	0
b = -0.34884 + 2.04283I		
u = -0.60072 - 2.06916I		
a = -0.125600 + 0.868073I	9.43831 - 8.00299I	0
b = -0.34884 - 2.04283I		

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 $\begin{array}{l} I_2^u = \langle -1.49 \times 10^{14} u^{21} + 9.87 \times 10^{13} u^{20} + \dots + 9.67 \times 10^{13} b - 8.25 \times 10^{13}, \ 3.61 \times 10^{14} u^{21} - 1.14 \times 10^{14} u^{20} + \dots + 9.67 \times 10^{13} a + 7.29 \times 10^{14}, \ u^{22} + 6u^{20} + \dots + 3u + 1 \rangle \end{array}$

(i) Arc colorings

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

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

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

$$a_{7} = \begin{pmatrix} -3.73014u^{21} + 1.17823u^{20} + \dots - 5.77790u - 7.53864 \\ 1.54312u^{21} - 1.02074u^{20} + \dots + 3.61870u + 0.853010 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 2.80559u^{21} - 0.613746u^{20} + \dots + 3.94605u + 7.99627 \\ -1.59401u^{21} + 0.617282u^{20} + \dots - 2.45622u - 2.03309 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 2.43638u^{21} - 1.64663u^{20} + \dots + 4.38963u + 0.101156 \\ 2.86235u^{21} - 1.16568u^{20} + \dots + 4.78482u + 5.72462 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -2.18702u^{21} + 0.157481u^{20} + \dots - 2.15920u - 6.68563 \\ 1.54312u^{21} - 1.02074u^{20} + \dots + 3.61870u + 0.853010 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -2.18702u^{21} + 0.157481u^{20} + \dots - 2.15920u - 6.68563 \\ 1.66941u^{21} - 1.23031u^{20} + \dots + 5.33328u + 0.695529 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.78514u^{21} - 1.62442u^{20} + \dots + 9.90008u + 3.76942 \\ 1.36682u^{21} - 0.449827u^{20} + \dots + 4.50861u + 4.43001 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 4.15196u^{21} - 2.07424u^{20} + \dots + 14.4087u + 8.19943 \\ 1.36682u^{21} - 0.449827u^{20} + \dots + 4.50861u + 4.43001 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -4.30959u^{21} + 1.04490u^{20} + \dots + 9.47528u - 13.1314 \\ 0.804486u^{21} - 0.868380u^{20} + \dots + 3.26438u - 1.10562 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.963368u^{21} + 1.38410u^{20} + \dots - 2.10831u + 3.97684 \\ -3.61664u^{21} + 1.69124u^{20} + \dots - 7.01111u - 5.08948 \end{pmatrix}$$

(ii) Obstruction class = 1

 (iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{22} - 9u^{21} + \dots - 10u + 1$
c_2	$u^{22} + 6u^{20} + \dots + 3u + 1$
c_3	$u^{22} + u^{21} + \dots - 41u + 5$
c_4	$u^{22} - 5u^{21} + \dots - 2u + 3$
c_5	$u^{22} - 7u^{20} + \dots - 17u + 5$
	$u^{22} + 9u^{21} + \dots - 2u + 1$
c_7	$u^{22} + 4u^{21} + \dots + 4u + 1$
<i>c</i> ₈	$u^{22} - 4u^{21} + \dots - 59u + 7$
<i>c</i> ₉	$u^{22} + 31u^{21} + \dots - 6u + 1$
c_{10}	$u^{22} - 8u^{21} + \dots - 13u + 3$
c_{11}	$u^{22} + 4u^{21} + \dots + 59u + 7$
c_{12}	$u^{22} - 7u^{21} + \dots + 9u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{22} - 3y^{21} + \dots + 26y + 1$
c_2	$y^{22} + 12y^{21} + \dots - 15y + 1$
<i>c</i> ₃	$y^{22} - 5y^{21} + \dots + 119y + 25$
c_4	$y^{22} + y^{21} + \dots + 8y + 9$
<i>C</i> ₅	$y^{22} - 14y^{21} + \dots - 449y + 25$
c_6	$y^{22} + 13y^{21} + \dots + 224y + 1$
c_7	$y^{22} + 14y^{21} + \dots + 14y + 1$
c_8,c_{11}	$y^{22} + 18y^{21} + \dots - 51y + 49$
<i>c</i> ₉	$y^{22} - 421y^{21} + \dots - 16y + 1$
c_{10}	$y^{22} - 18y^{21} + \dots + 35y + 9$
c_{12}	$y^{22} - y^{21} + \dots - 5y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.951034 + 0.134444I		
a = 0.605350 + 1.006750I	0.79970 + 2.99966I	6.51980 - 4.32864I
b = -0.107028 - 0.680421I		
u = -0.951034 - 0.134444I		
a = 0.605350 - 1.006750I	0.79970 - 2.99966I	6.51980 + 4.32864I
b = -0.107028 + 0.680421I		
u = 0.054801 + 1.050180I		
a = -2.33429 + 2.96337I	4.72694 + 0.15173I	81.0248 + 14.3588I
b = 2.37282 - 3.26912I		
u = 0.054801 - 1.050180I		
a = -2.33429 - 2.96337I	4.72694 - 0.15173I	81.0248 - 14.3588I
b = 2.37282 + 3.26912I		
u = 0.394378 + 1.036170I		
a = 0.529717 + 0.484241I	-1.121450 - 0.412393I	-3.86761 - 5.50321I
b = 0.891472 - 0.443374I		
u = 0.394378 - 1.036170I		
a = 0.529717 - 0.484241I	-1.121450 + 0.412393I	-3.86761 + 5.50321I
b = 0.891472 + 0.443374I		
u = -0.705719 + 0.514320I		
a = 1.141760 - 0.226080I	-0.58337 - 2.20721I	-7.14382 + 5.39648I
b = 0.820094 - 0.039020I		
u = -0.705719 - 0.514320I		
a = 1.141760 + 0.226080I	-0.58337 + 2.20721I	-7.14382 - 5.39648I
b = 0.820094 + 0.039020I		
u = 1.150040 + 0.122620I		
a = 0.501064 - 0.269186I	1.142400 - 0.428165I	-0.33704 - 3.69823I
b = 1.38047 - 0.53268I		
u = 1.150040 - 0.122620I		
a = 0.501064 + 0.269186I	1.142400 + 0.428165I	-0.33704 + 3.69823I
b = 1.38047 + 0.53268I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.769922 + 0.872233I		
a = 0.393736 + 0.406091I	3.60622 - 3.26427I	-6.14063 + 0.76896I
b = -0.0213916 + 0.0853977I		
u = 0.769922 - 0.872233I		
a = 0.393736 - 0.406091I	3.60622 + 3.26427I	-6.14063 - 0.76896I
b = -0.0213916 - 0.0853977I		
u = -0.706428 + 0.363074I		
a = 0.393152 - 0.102422I	-2.32161 + 1.24252I	-16.7069 - 5.8630I
b = 0.929325 - 0.401157I		
u = -0.706428 - 0.363074I		
a = 0.393152 + 0.102422I	-2.32161 - 1.24252I	-16.7069 + 5.8630I
b = 0.929325 + 0.401157I		
u = 0.530753 + 0.117442I		
a = 0.11104 - 1.74126I	-2.25567 + 4.82318I	-6.03196 - 5.94405I
b = -0.779379 + 0.428668I		
u = 0.530753 - 0.117442I		
a = 0.11104 + 1.74126I	-2.25567 - 4.82318I	-6.03196 + 5.94405I
b = -0.779379 - 0.428668I		
u = -0.449674 + 0.157084I		
a = -0.20238 - 2.18846I	1.54910 + 9.74946I	-3.15022 - 8.05150I
b = -1.157300 + 0.217672I		
u = -0.449674 - 0.157084I		
a = -0.20238 + 2.18846I	1.54910 - 9.74946I	-3.15022 + 8.05150I
b = -1.157300 - 0.217672I		
u = -0.34131 + 1.81217I		
a = -0.115503 + 1.041120I	8.66862 + 2.29552I	-0.26375 + 5.19421I
b = -0.18866 - 1.53705I		
u = -0.34131 - 1.81217I		
a = -0.115503 - 1.041120I	8.66862 - 2.29552I	-0.26375 - 5.19421I
b = -0.18866 + 1.53705I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.25428 + 1.98779I		
a = -0.023650 - 0.890837I	10.46310 - 7.23363I	3.59733 + 5.30923I
b = 0.35958 + 2.02401I		
u = 0.25428 - 1.98779I		
a = -0.023650 + 0.890837I	10.46310 + 7.23363I	3.59733 - 5.30923I
b = 0.35958 - 2.02401I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{22} - 9u^{21} + \dots - 10u + 1)(u^{76} - 10u^{75} + \dots - 221u + 17) $
c_2	$(u^{22} + 6u^{20} + \dots + 3u + 1)(u^{76} - u^{75} + \dots - 23760u + 74007)$
c_3	$(u^{22} + u^{21} + \dots - 41u + 5)(u^{76} + 2u^{75} + \dots - 19464u + 3677)$
c_4	$(u^{22} - 5u^{21} + \dots - 2u + 3)(u^{76} - 2u^{75} + \dots + 549u + 207)$
c_5	$(u^{22} - 7u^{20} + \dots - 17u + 5)(u^{76} - u^{75} + \dots + 3.48422 \times 10^7 u + 3425393)$
c_6	$(u^{22} + 9u^{21} + \dots - 2u + 1)(u^{76} + 53u^{74} + \dots + 7437u + 763)$
c_7	$(u^{22} + 4u^{21} + \dots + 4u + 1)(u^{76} - 7u^{75} + \dots + 27u + 1)$
c_8	$(u^{22} - 4u^{21} + \dots - 59u + 7)(u^{76} - 9u^{75} + \dots - 362u + 19)$
c_9	$(u^{22} + 31u^{21} + \dots - 6u + 1)$ $\cdot (u^{76} - 8u^{75} + \dots + 57253563u + 3204791)$
c_{10}	$(u^{22} - 8u^{21} + \dots - 13u + 3)(u^{76} - 9u^{75} + \dots - 530u + 1279)$
c_{11}	$(u^{22} + 4u^{21} + \dots + 59u + 7)(u^{76} - 9u^{75} + \dots - 362u + 19)$
c_{12}	$(u^{22} - 7u^{21} + \dots + 9u + 1)(u^{76} - 6u^{75} + \dots + 78u + 35)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{22} - 3y^{21} + \dots + 26y + 1)(y^{76} + 18y^{75} + \dots - 2227y + 289)$
c_2	$(y^{22} + 12y^{21} + \dots - 15y + 1)$ $\cdot (y^{76} + 93y^{75} + \dots + 236846070036y + 5477036049)$
c_3	$(y^{22} - 5y^{21} + \dots + 119y + 25)$ $\cdot (y^{76} + 20y^{75} + \dots + 475032998y + 13520329)$
c_4	$(y^{22} + y^{21} + \dots + 8y + 9)(y^{76} - 14y^{75} + \dots - 1120293y + 42849)$
c_5	$(y^{22} - 14y^{21} + \dots - 449y + 25)$ $\cdot (y^{76} - 57y^{75} + \dots - 439239317966814y + 11733317204449)$
c_6	$(y^{22} + 13y^{21} + \dots + 224y + 1)$ $\cdot (y^{76} + 106y^{75} + \dots + 5285439y + 582169)$
c_7	$(y^{22} + 14y^{21} + \dots + 14y + 1)(y^{76} + 15y^{75} + \dots - 7y + 1)$
c_8, c_{11}	$(y^{22} + 18y^{21} + \dots - 51y + 49)(y^{76} + 63y^{75} + \dots + 208y + 361)$
<i>c</i> ₉	$(y^{22} - 421y^{21} + \dots - 16y + 1)$ $\cdot (y^{76} + 128y^{75} + \dots + 7840289593898607y + 10270685353681)$
c_{10}	$(y^{22} - 18y^{21} + \dots + 35y + 9)$ $\cdot (y^{76} - 105y^{75} + \dots - 4524622y + 1635841)$
c_{12}	$(y^{22} - y^{21} + \dots - 5y + 1)(y^{76} - 8y^{75} + \dots - 58374y + 1225)$