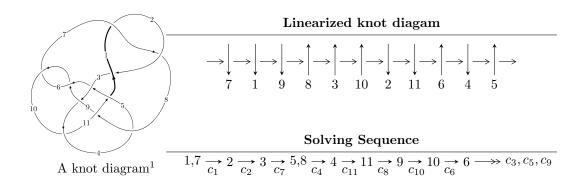
$11a_{233} \ (K11a_{233})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -2.27632 \times 10^{208} u^{109} + 1.94112 \times 10^{208} u^{108} + \dots + 4.24838 \times 10^{207} b + 1.02341 \times 10^{210}, \\ &- 3.37601 \times 10^{209} u^{109} + 7.54876 \times 10^{209} u^{108} + \dots + 2.08171 \times 10^{209} a - 4.18256 \times 10^{210}, \\ &u^{110} - 25 u^{108} + \dots - 111 u - 49 \rangle \\ I_2^u &= \langle -u^{23} - u^{22} + \dots + b + 1, \ 213 u^{23} + 206 u^{22} + \dots + 19 a - 309, \ u^{24} + u^{23} + \dots - 4 u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 134 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.
$$I_1^u = \langle -2.28 \times 10^{208} u^{109} + 1.94 \times 10^{208} u^{108} + \dots + 4.25 \times 10^{207} b + 1.02 \times 10^{210}, \ -3.38 \times 10^{209} u^{109} + 7.55 \times 10^{209} u^{108} + \dots + 2.08 \times 10^{209} a - 4.18 \times 10^{210}, \ u^{110} - 25 u^{108} + \dots - 111 u - 49 \rangle$$

(i) Arc colorings

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

$$a_{7} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{5} = \begin{pmatrix} 1.62175u^{109} - 3.62623u^{108} + \dots - 57.1057u + 20.0920 \\ 5.35809u^{109} - 4.56908u^{108} + \dots - 399.860u - 240.893 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -1.91012u^{109} - 0.808931u^{108} + \dots + 191.146u + 188.961 \\ 7.74510u^{109} - 7.62401u^{108} + \dots - 508.453u - 271.714 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -6.62292u^{109} + 6.81033u^{108} + \dots + 447.228u + 250.503 \\ 3.00556u^{109} - 6.70861u^{108} + \dots - 105.567u + 75.2016 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 8.05410u^{109} - 8.44201u^{108} + \dots - 548.617u - 273.571 \\ -1.92264u^{109} + 8.03692u^{108} + \dots - 20.2333u - 246.169 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -5.59038u^{109} + 4.91305u^{108} + \dots + 389.785u + 244.009 \\ 4.07996u^{109} - 8.62390u^{108} + \dots - 159.703u + 79.3119 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -1.66281u^{109} - 0.839116u^{108} + \dots + 171.874u + 172.557 \\ 7.01460u^{109} - 7.18860u^{108} + \dots - 461.032u - 232.681 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.66281u^{109} - 0.839116u^{108} + \dots + 171.874u + 172.557 \\ 7.01460u^{109} - 7.18860u^{108} + \dots - 461.032u - 232.681 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-8.45708u^{109} + 8.40205u^{108} + \dots + 589.854u + 392.471$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{110} - 25u^{108} + \dots + 111u - 49$
c_2	$u^{110} + 50u^{109} + \dots + 26237u + 2401$
c_3	$u^{110} - u^{109} + \dots - 33999u - 6849$
C ₄	$u^{110} - 3u^{109} + \dots - 41u - 1$
<i>C</i> ₅	$u^{110} - 7u^{109} + \dots - 126089u - 152261$
c_{6}, c_{9}	$u^{110} - 33u^{108} + \dots - 32u + 1133$
<i>c</i> ₈	$u^{110} - 9u^{109} + \dots + 21u - 1$
c_{10}	$u^{110} + 3u^{109} + \dots - 37u + 1$
c_{11}	$u^{110} - 5u^{108} + \dots + 5654u - 1721$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{110} - 50y^{109} + \dots - 26237y + 2401$
c_2	$y^{110} + 30y^{109} + \dots - 18049781y + 5764801$
c_3	$y^{110} + 21y^{109} + \dots + 2263623021y + 46908801$
c_4	$y^{110} + y^{109} + \dots - 205y + 1$
c_5	$y^{110} - 35y^{109} + \dots + 362704631019y + 23183412121$
c_{6}, c_{9}	$y^{110} - 66y^{109} + \dots - 31330740y + 1283689$
<i>c</i> ₈	$y^{110} + y^{109} + \dots + 19y + 1$
c_{10}	$y^{110} + 5y^{109} + \dots - 129y + 1$
c_{11}	$y^{110} - 10y^{109} + \dots - 173719602y + 2961841$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.877207 + 0.464777I		
a = -1.63345 - 0.65594I	-2.81741 + 1.89701I	0
b = -0.30513 + 2.32582I		
u = -0.877207 - 0.464777I		
a = -1.63345 + 0.65594I	-2.81741 - 1.89701I	0
b = -0.30513 - 2.32582I		
u = -0.906253 + 0.459377I		
a = -0.216830 - 0.375187I	-1.38141 + 4.57448I	0
b = 0.074681 - 1.025680I		
u = -0.906253 - 0.459377I		
a = -0.216830 + 0.375187I	-1.38141 - 4.57448I	0
b = 0.074681 + 1.025680I		
u = 0.779379 + 0.592089I		
a = -1.16698 - 1.53479I	4.64623 - 0.04743I	0
b = 0.815736 - 0.623391I		
u = 0.779379 - 0.592089I		
a = -1.16698 + 1.53479I	4.64623 + 0.04743I	0
b = 0.815736 + 0.623391I		
u = -0.862031 + 0.455176I		
a = 0.603643 - 0.885853I	-1.23201 - 0.85043I	0
b = 0.378364 - 1.127920I		
u = -0.862031 - 0.455176I		
a = 0.603643 + 0.885853I	-1.23201 + 0.85043I	0
b = 0.378364 + 1.127920I		
u = 0.498633 + 0.834333I		
a = -1.24445 - 1.05722I	2.08576 + 6.71841I	0
b = 1.30739 + 0.77834I		
u = 0.498633 - 0.834333I		
a = -1.24445 + 1.05722I	2.08576 - 6.71841I	0
b = 1.30739 - 0.77834I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.919272 + 0.312694I		
a = 2.30721 - 0.99992I	0.29208 - 3.63942I	0
b = -1.27590 - 1.00769I		
u = -0.919272 - 0.312694I		
a = 2.30721 + 0.99992I	0.29208 + 3.63942I	0
b = -1.27590 + 1.00769I		
u = 0.894461 + 0.341485I		
a = -0.458154 - 0.689277I	-1.66024 - 0.89300I	0
b = 0.790844 + 0.231478I		
u = 0.894461 - 0.341485I		
a = -0.458154 + 0.689277I	-1.66024 + 0.89300I	0
b = 0.790844 - 0.231478I		
u = 0.699495 + 0.780649I		
a = 1.198460 - 0.366427I	6.12266 + 3.41032I	0
b = -0.793614 - 0.327881I		
u = 0.699495 - 0.780649I		
a = 1.198460 + 0.366427I	6.12266 - 3.41032I	0
b = -0.793614 + 0.327881I		
u = 0.908401 + 0.528181I		
a = -2.28390 - 0.15768I	-0.65779 - 5.16179I	0
b = 0.732017 - 0.538186I		
u = 0.908401 - 0.528181I		
a = -2.28390 + 0.15768I	-0.65779 + 5.16179I	0
b = 0.732017 + 0.538186I		
u = -0.450080 + 0.954070I		
a = -1.21322 + 0.77988I	6.1363 - 12.7818I	0
b = 1.31650 - 0.83984I		
u = -0.450080 - 0.954070I		
a = -1.21322 - 0.77988I	6.1363 + 12.7818I	0
b = 1.31650 + 0.83984I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.933669 + 0.49930	5I	
a = 1.95385 + 0.36470I	-2.36919 - 2.67543I	0
b = -1.00796 + 1.26733I		
u = 0.933669 - 0.49930	51	
a = 1.95385 - 0.36470I	-2.36919 + 2.67543I	0
b = -1.00796 - 1.26733I		
u = -0.928488 + 0.10248	OI	
a = 1.60356 - 0.71634I	1.78332 - 2.50693I	0
b = 0.492832 - 0.75758	2I	
u = -0.928488 - 0.10248	OI	
a = 1.60356 + 0.71634I	1.78332 + 2.50693I	0
b = 0.492832 + 0.75758	2I	
u = 1.015960 + 0.32733	61	
a = 0.403514 - 0.41586	$8I \mid -1.96403 - 0.96664I$	0
b = 0.712743 + 0.87197	7I	
u = 1.015960 - 0.32733	61	
a = 0.403514 + 0.41586	8I - 1.96403 + 0.96664I	0
b = 0.712743 - 0.87197	7I	
u = 0.906000 + 0.57819	9I	
a = 1.032450 + 0.19983	2I = 4.25014 - 4.59723I	0
b = -1.186720 - 0.50874	9I	
u = 0.906000 - 0.57819	9I	
a = 1.032450 - 0.19983	2I = 4.25014 + 4.59723I	0
b = -1.186720 + 0.50874	9I	
u = -1.069320 + 0.10892	61	
a = -0.483978 + 0.41734	2I -5.09720 + 2.43411I	0
b = 0.183669 + 1.07357	OI	
u = -1.069320 - 0.10892	61	
a = -0.483978 - 0.41734	$2I \mid -5.09720 - 2.43411I$	0
b = 0.183669 - 1.07357	0I	

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.768096 + 0.504247I		
a = 1.10361 + 1.56209I	-0.213297 + 0.928435I	0
b = -0.403494 - 0.242985I		
u = 0.768096 - 0.504247I		
a = 1.10361 - 1.56209I	-0.213297 - 0.928435I	0
b = -0.403494 + 0.242985I		
u = -0.693726 + 0.829558I		
a = -0.779769 + 1.106130I	7.43132 - 0.79593I	0
b = 1.31216 - 0.72509I		
u = -0.693726 - 0.829558I		
a = -0.779769 - 1.106130I	7.43132 + 0.79593I	0
b = 1.31216 + 0.72509I		
u = 0.523668 + 0.741211I		
a = 1.12373 + 0.96400I	6.62680 + 3.46904I	0
b = -1.42277 - 1.05594I		
u = 0.523668 - 0.741211I		
a = 1.12373 - 0.96400I	6.62680 - 3.46904I	0
b = -1.42277 + 1.05594I		
u = 0.378004 + 0.807900I		
a = -0.378489 + 0.463144I	1.72185 - 3.26106I	0
b = 0.682090 - 0.070661I		
u = 0.378004 - 0.807900I		
a = -0.378489 - 0.463144I	1.72185 + 3.26106I	0
b = 0.682090 + 0.070661I		
u = -0.795267 + 0.389203I		
a = 1.76374 - 0.04444I	2.92619 - 0.62432I	0
b = -1.208800 + 0.171994I		
u = -0.795267 - 0.389203I		
a = 1.76374 + 0.04444I	2.92619 + 0.62432I	0
b = -1.208800 - 0.171994I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.963056 + 0.572158I		
a = -0.92650 + 1.41091I	1.67436 + 4.68049I	0
b = 0.749621 + 0.384131I		
u = -0.963056 - 0.572158I		
a = -0.92650 - 1.41091I	1.67436 - 4.68049I	0
b = 0.749621 - 0.384131I		
u = -0.449330 + 1.028380I		
a = -0.468032 + 0.389341I	4.82382 - 4.21742I	0
b = 0.773402 - 0.518641I		
u = -0.449330 - 1.028380I		
a = -0.468032 - 0.389341I	4.82382 + 4.21742I	0
b = 0.773402 + 0.518641I		
u = 0.977137 + 0.554900I		
a = -0.975120 + 0.865655I	1.86655 - 8.96327I	0
b = -0.82789 - 2.04963I		
u = 0.977137 - 0.554900I		
a = -0.975120 - 0.865655I	1.86655 + 8.96327I	0
b = -0.82789 + 2.04963I		
u = 0.347166 + 0.792807I		
a = 1.176620 - 0.063753I	5.78414 - 0.80826I	0
b = -1.353060 + 0.254781I		
u = 0.347166 - 0.792807I		
a = 1.176620 + 0.063753I	5.78414 + 0.80826I	0
b = -1.353060 - 0.254781I		
u = 1.077080 + 0.357090I		
a = 0.496904 + 0.747927I	-1.19948 + 1.82986I	0
b = 0.562525 + 1.139530I		
u = 1.077080 - 0.357090I		
a = 0.496904 - 0.747927I	-1.19948 - 1.82986I	0
b = 0.562525 - 1.139530I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.554814 + 1.000080I		
a = 1.093360 + 0.477457I	2.97612 + 3.19519I	0
b = -0.980163 - 0.369618I		
u = 0.554814 - 1.000080I		
a = 1.093360 - 0.477457I	2.97612 - 3.19519I	0
b = -0.980163 + 0.369618I		
u = -1.149670 + 0.046838I		
a = -0.399836 + 0.038087I	-3.72221 - 4.85234I	0
b = -0.692479 + 0.940995I		
u = -1.149670 - 0.046838I		
a = -0.399836 - 0.038087I	-3.72221 + 4.85234I	0
b = -0.692479 - 0.940995I		
u = -0.310587 + 0.786939I		
a = 1.51809 - 0.41405I	1.63201 - 1.67537I	0
b = -0.953194 + 0.420891I		
u = -0.310587 - 0.786939I		
a = 1.51809 + 0.41405I	1.63201 + 1.67537I	0
b = -0.953194 - 0.420891I		
u = 0.657188 + 0.523339I		
a = -1.76810 + 0.26229I	2.86926 + 4.53794I	0
b = 0.25935 - 1.89224I		
u = 0.657188 - 0.523339I		
a = -1.76810 - 0.26229I	2.86926 - 4.53794I	0
b = 0.25935 + 1.89224I		
u = -0.576594 + 0.605519I		
a = 1.356830 + 0.270002I	2.76606 - 0.05036I	0
b = -0.953112 + 0.084959I		
u = -0.576594 - 0.605519I		
a = 1.356830 - 0.270002I	2.76606 + 0.05036I	0
b = -0.953112 - 0.084959I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.052560 + 0.500476I		
a = -2.18256 + 1.04458I	-0.29158 + 8.70811I	0
b = 0.709599 + 0.809395I		
u = -1.052560 - 0.500476I		
a = -2.18256 - 1.04458I	-0.29158 - 8.70811I	0
b = 0.709599 - 0.809395I		
u = -1.062770 + 0.482900I		
a = -0.855928 + 0.673982I	-0.74609 + 5.32896I	0
b = 0.585258 - 0.115320I		
u = -1.062770 - 0.482900I		
a = -0.855928 - 0.673982I	-0.74609 - 5.32896I	0
b = 0.585258 + 0.115320I		
u = -1.072460 + 0.462666I		
a = -1.12860 + 1.34169I	-0.96350 + 5.88120I	0
b = 1.45190 + 0.29838I		
u = -1.072460 - 0.462666I		
a = -1.12860 - 1.34169I	-0.96350 - 5.88120I	0
b = 1.45190 - 0.29838I		
u = -1.096870 + 0.405245I		
a = -0.295230 + 1.369570I	1.77521 + 3.72119I	0
b = 1.046210 + 0.360865I		
u = -1.096870 - 0.405245I		
a = -0.295230 - 1.369570I	1.77521 - 3.72119I	0
b = 1.046210 - 0.360865I		
u = -0.665044 + 0.962961I		
a = -0.869511 - 0.020998I	7.39423 + 7.45324I	0
b = 1.001420 + 0.089018I		
u = -0.665044 - 0.962961I		
a = -0.869511 + 0.020998I	7.39423 - 7.45324I	0
b = 1.001420 - 0.089018I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.986287 + 0.678798I		
a = -1.04231 - 1.40120I	5.22686 - 8.92615I	0
b = 0.591393 - 0.442123I		
u = 0.986287 - 0.678798I		
a = -1.04231 + 1.40120I	5.22686 + 8.92615I	0
b = 0.591393 + 0.442123I		
u = -0.985417 + 0.709019I		
a = 1.66661 - 0.54822I	6.52722 + 6.52907I	0
b = -1.37059 - 1.09406I		
u = -0.985417 - 0.709019I		
a = 1.66661 + 0.54822I	6.52722 - 6.52907I	0
b = -1.37059 + 1.09406I		
u = 1.053980 + 0.616473I		
a = -1.80894 - 1.12112I	5.04421 - 8.64823I	0
b = 1.34053 - 1.41758I		
u = 1.053980 - 0.616473I		
a = -1.80894 + 1.12112I	5.04421 + 8.64823I	0
b = 1.34053 + 1.41758I		
u = 1.155080 + 0.419124I		
a = -0.317358 + 0.478355I	-1.01670 - 1.54579I	0
b = -0.229713 + 0.381420I		
u = 1.155080 - 0.419124I		
a = -0.317358 - 0.478355I	-1.01670 + 1.54579I	0
b = -0.229713 - 0.381420I		
u = -0.240009 + 0.729450I		
a = 1.68755 - 0.37006I	1.63442 - 1.65219I	0
b = -1.008390 + 0.326940I		
u = -0.240009 - 0.729450I		
a = 1.68755 + 0.37006I	1.63442 + 1.65219I	0
b = -1.008390 - 0.326940I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.248160 + 0.167187I		
a = -0.047582 + 0.185630I	-3.48242 - 1.40017I	0
b = 0.448747 + 0.739145I		
u = 1.248160 - 0.167187I		
a = -0.047582 - 0.185630I	-3.48242 + 1.40017I	0
b = 0.448747 - 0.739145I		
u = -1.121870 + 0.588574I		
a = -1.47537 + 0.92778I	-0.67710 + 6.80491I	0
b = 1.095070 + 0.694208I		
u = -1.121870 - 0.588574I		
a = -1.47537 - 0.92778I	-0.67710 - 6.80491I	0
b = 1.095070 - 0.694208I		
u = 1.094930 + 0.652502I		
a = 1.67330 + 0.85538I	0.28908 - 12.26980I	0
b = -1.41731 + 1.03818I		
u = 1.094930 - 0.652502I		
a = 1.67330 - 0.85538I	0.28908 + 12.26980I	0
b = -1.41731 - 1.03818I		
u = 1.034360 + 0.780990I		
a = 0.759324 - 0.098673I	-1.11477 - 3.22039I	0
b = -0.279493 + 0.935535I		
u = 1.034360 - 0.780990I		
a = 0.759324 + 0.098673I	-1.11477 + 3.22039I	0
b = -0.279493 - 0.935535I		
u = 1.163950 + 0.597229I		
a = -0.370407 - 1.011620I	3.34906 - 4.44237I	0
b = 1.262770 - 0.100850I		
u = 1.163950 - 0.597229I		
a = -0.370407 + 1.011620I	3.34906 + 4.44237I	0
b = 1.262770 + 0.100850I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.022390 + 0.825318I		
a = 0.680590 - 0.651676I	6.31501 - 1.00722I	0
b = -0.798900 - 0.226839I		
u = -1.022390 - 0.825318I		
a = 0.680590 + 0.651676I	6.31501 + 1.00722I	0
b = -0.798900 + 0.226839I		
u = -0.640270 + 0.212677I		
a = 2.69349 - 1.83709I	1.54328 - 4.98644I	2.45007 + 8.52020I
b = -0.127581 + 0.488768I		
u = -0.640270 - 0.212677I		
a = 2.69349 + 1.83709I	1.54328 + 4.98644I	2.45007 - 8.52020I
b = -0.127581 - 0.488768I		
u = -1.154350 + 0.677211I		
a = 1.53961 - 0.91183I	3.9763 + 18.7296I	0
b = -1.36470 - 1.04606I		
u = -1.154350 - 0.677211I		
a = 1.53961 + 0.91183I	3.9763 - 18.7296I	0
b = -1.36470 + 1.04606I		
u = 1.124100 + 0.727802I		
a = -1.31702 - 0.62337I	1.19179 - 9.44841I	0
b = 1.078770 - 0.606118I		
u = 1.124100 - 0.727802I		
a = -1.31702 + 0.62337I	1.19179 + 9.44841I	0
b = 1.078770 + 0.606118I		
u = 1.342090 + 0.044214I		
a = -0.254009 - 0.071336I	-0.45665 + 9.74950I	0
b = -0.863754 - 0.749048I		
u = 1.342090 - 0.044214I		
a = -0.254009 + 0.071336I	-0.45665 - 9.74950I	0
b = -0.863754 + 0.749048I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.226007 + 0.599739I		
a = 1.40029 + 0.22082I	1.50056 - 1.22933I	2.23781 + 0.32389I
b = -0.343438 + 0.044030I		
u = -0.226007 - 0.599739I		
a = 1.40029 - 0.22082I	1.50056 + 1.22933I	2.23781 - 0.32389I
b = -0.343438 - 0.044030I		
u = -1.166200 + 0.701935I		
a = 0.941883 - 0.444923I	2.61479 + 10.42400I	0
b = -0.779786 - 0.885221I		
u = -1.166200 - 0.701935I		
a = 0.941883 + 0.444923I	2.61479 - 10.42400I	0
b = -0.779786 + 0.885221I		
u = 0.349015 + 0.346255I		
a = 0.11626 - 1.61513I	-1.28138 - 1.05196I	-4.47244 + 2.63035I
b = 0.318522 + 0.666891I		
u = 0.349015 - 0.346255I		
a = 0.11626 + 1.61513I	-1.28138 + 1.05196I	-4.47244 - 2.63035I
b = 0.318522 - 0.666891I		
u = -1.52087		
a = -0.0990714	-5.00608	0
b = 0.528154		
u = -0.073335 + 0.398555I		
a = 2.33561 + 0.83813I	1.75925 - 4.87207I	2.70094 + 7.09838I
b = -0.285624 + 1.008580I		
u = -0.073335 - 0.398555I		
a = 2.33561 - 0.83813I	1.75925 + 4.87207I	2.70094 - 7.09838I
b = -0.285624 - 1.008580I		
u = 1.63949		
a = -0.148064	-2.92394	0
b = -0.209215		

II.
$$I_2^u = \langle -u^{23} - u^{22} + \dots + b + 1, \ 213u^{23} + 206u^{22} + \dots + 19a - 309, \ u^{24} + u^{23} + \dots - 4u - 1 \rangle$$

(i) Arc colorings

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

$$a_{7} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{5} = \begin{pmatrix} -11.2105u^{23} - 10.8421u^{22} + \dots + 2.47368u + 16.2632 \\ u^{23} + u^{22} + \dots - u^{3} - 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -7.36842u^{23} - 5.47368u^{22} + \dots + 13.5789u + 16.2105 \\ -2.26316u^{23} - 3.05263u^{22} + \dots - 1.15789u + 0.578947 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 17.8947u^{23} + 19.5789u^{22} + \dots - 16.2632u - 17.3684 \\ 2u^{23} + 2u^{22} + \dots + 9u + 2 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{23} + 10u^{22} + \dots + 43u + 12 \\ 2.36842u^{23} + 1.47368u^{22} + \dots + 5.42105u - 3.21053 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 5.26316u^{23} + 9.05263u^{22} + \dots + 11.1579u - 5.57895 \\ 1.10526u^{23} + 0.421053u^{22} + \dots - 9.73684u - 2.63158 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -7.36842u^{23} - 5.47368u^{22} + \dots + 13.5789u + 15.2105 \\ -3.94737u^{23} - 5.78947u^{22} + \dots - 2.36842u - 1.31579 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -7.36842u^{23} - 5.47368u^{22} + \dots + 13.5789u + 15.2105 \\ -3.94737u^{23} - 5.78947u^{22} + \dots - 2.36842u - 1.31579 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{61}{19}u^{23} - \frac{22}{19}u^{22} + \dots - \frac{446}{19}u - \frac{290}{19}u^{22} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{24} + u^{23} + \dots - 4u - 1$
<i>c</i> ₂	$u^{24} + 15u^{23} + \dots + 20u + 1$
c_3	$u^{24} - 4u^{22} + \dots - 7u^2 - 1$
c_4	$u^{24} + 2u^{21} + \dots + 6u^2 - 1$
c_5	$u^{24} - 8u^{23} + \dots + 2u - 1$
<i>c</i> ₆	$u^{24} - u^{23} + \dots - u + 1$
c_7	$u^{24} - u^{23} + \dots + 4u - 1$
c_8	$u^{24} - 4u^{23} + \dots + 2u^2 - 1$
<i>c</i> ₉	$u^{24} + u^{23} + \dots + u + 1$
c_{10}	$u^{24} + 2u^{22} + \dots + 2u^2 + 1$
c_{11}	$u^{24} - u^{23} + \dots - 5u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{24} - 15y^{23} + \dots - 20y + 1$
c_2	$y^{24} - 3y^{23} + \dots - 48y + 1$
c_3	$y^{24} - 8y^{23} + \dots + 14y + 1$
C ₄	$y^{24} + 22y^{22} + \dots - 12y + 1$
<i>C</i> ₅	$y^{24} + 6y^{22} + \dots + 16y + 1$
c_{6}, c_{9}	$y^{24} - 11y^{23} + \dots - 23y + 1$
c ₈	$y^{24} - 12y^{23} + \dots - 4y + 1$
c_{10}	$y^{24} + 4y^{23} + \dots + 4y + 1$
c_{11}	$y^{24} + 13y^{23} + \dots - 17y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.961540 + 0.324381I		
a = 0.208085 + 1.144620I	-2.24478 + 1.21499I	-7.92334 - 1.43420I
b = 0.442192 + 0.967157I		
u = 0.961540 - 0.324381I		
a = 0.208085 - 1.144620I	-2.24478 - 1.21499I	-7.92334 + 1.43420I
b = 0.442192 - 0.967157I		
u = 0.892664 + 0.380781I		
a = 1.65001 - 0.59564I	-3.23367 - 1.58563I	-12.12086 - 2.46911I
b = 0.23059 + 2.03345I		
u = 0.892664 - 0.380781I		
a = 1.65001 + 0.59564I	-3.23367 + 1.58563I	-12.12086 + 2.46911I
b = 0.23059 - 2.03345I		
u = 0.623098 + 0.828332I		
a = 0.612078 + 0.279702I	5.06464 + 3.02635I	3.34483 - 2.15323I
b = -0.751668 - 0.641408I		
u = 0.623098 - 0.828332I		
a = 0.612078 - 0.279702I	5.06464 - 3.02635I	3.34483 + 2.15323I
b = -0.751668 + 0.641408I		
u = -1.001840 + 0.322771I		
a = -0.17729 + 1.57604I	0.59195 + 6.60993I	0.94676 - 9.25140I
b = 0.560177 - 0.727103I		
u = -1.001840 - 0.322771I		
a = -0.17729 - 1.57604I	0.59195 - 6.60993I	0.94676 + 9.25140I
b = 0.560177 + 0.727103I		
u = 0.897988 + 0.262907I		
a = -0.971959 + 0.460730I	-1.90223 - 3.65372I	-4.93874 + 1.94442I
b = -0.121570 + 0.856122I		
u = 0.897988 - 0.262907I		
a = -0.971959 - 0.460730I	-1.90223 + 3.65372I	-4.93874 - 1.94442I
b = -0.121570 - 0.856122I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.438159 + 0.817215I		
a = 1.53700 - 0.49507I	1.88279 - 2.28848I	2.76403 + 7.78053I
b = -0.818325 + 0.359525I		
u = -0.438159 - 0.817215I		
a = 1.53700 + 0.49507I	1.88279 + 2.28848I	2.76403 - 7.78053I
b = -0.818325 - 0.359525I		
u = -0.853505 + 0.312541I		
a = 2.70499 - 0.98940I	1.13728 - 3.97909I	0.40364 + 4.38191I
b = -0.411010 - 1.224670I		
u = -0.853505 - 0.312541I		
a = 2.70499 + 0.98940I	1.13728 + 3.97909I	0.40364 - 4.38191I
b = -0.411010 + 1.224670I		
u = 1.014300 + 0.661581I		
a = -1.42783 - 0.61492I	3.87513 - 8.58418I	0.60808 + 7.82779I
b = 0.657688 - 1.132690I		
u = 1.014300 - 0.661581I		
a = -1.42783 + 0.61492I	3.87513 + 8.58418I	0.60808 - 7.82779I
b = 0.657688 + 1.132690I		
u = -1.082920 + 0.582065I		
a = -1.71488 + 0.85787I	-0.07044 + 7.43879I	2.45661 - 8.35379I
b = 0.954611 + 0.627912I		
u = -1.082920 - 0.582065I		
a = -1.71488 - 0.85787I	-0.07044 - 7.43879I	2.45661 + 8.35379I
b = 0.954611 - 0.627912I		
u = -1.027780 + 0.714936I		
a = -0.888542 + 0.014176I	-1.07995 + 3.05188I	1.95660 + 12.36124I
b = 0.417891 + 1.004570I		
u = -1.027780 - 0.714936I		
a = -0.888542 - 0.014176I	-1.07995 - 3.05188I	1.95660 - 12.36124I
b = 0.417891 - 1.004570I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.46567		
a = -0.250975	-5.22323	-22.3570
b = 0.331222		
u = -0.400602 + 0.082348I		
a = 2.04874 + 2.74231I	3.31624 + 1.99605I	5.84393 - 3.12794I
b = -0.979032 - 0.024538I		
u = -0.400602 - 0.082348I		
a = 2.04874 - 2.74231I	3.31624 - 1.99605I	5.84393 + 3.12794I
b = -0.979032 + 0.024538I		
u = -1.63523		
a = 0.0901907	-2.87094	69.6740
b = 0.305685		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{24} + u^{23} + \dots - 4u - 1)(u^{110} - 25u^{108} + \dots + 111u - 49)$
c_2	$ (u^{24} + 15u^{23} + \dots + 20u + 1)(u^{110} + 50u^{109} + \dots + 26237u + 2401) $
<i>c</i> ₃	$(u^{24} - 4u^{22} + \dots - 7u^2 - 1)(u^{110} - u^{109} + \dots - 33999u - 6849)$
c_4	$(u^{24} + 2u^{21} + \dots + 6u^2 - 1)(u^{110} - 3u^{109} + \dots - 41u - 1)$
<i>C</i> ₅	$ (u^{24} - 8u^{23} + \dots + 2u - 1)(u^{110} - 7u^{109} + \dots - 126089u - 152261) $
c_6	$(u^{24} - u^{23} + \dots - u + 1)(u^{110} - 33u^{108} + \dots - 32u + 1133)$
c_7	$ (u^{24} - u^{23} + \dots + 4u - 1)(u^{110} - 25u^{108} + \dots + 111u - 49) $
c_8	$ (u^{24} - 4u^{23} + \dots + 2u^2 - 1)(u^{110} - 9u^{109} + \dots + 21u - 1) $
<i>c</i> 9	$(u^{24} + u^{23} + \dots + u + 1)(u^{110} - 33u^{108} + \dots - 32u + 1133)$
c_{10}	$(u^{24} + 2u^{22} + \dots + 2u^2 + 1)(u^{110} + 3u^{109} + \dots - 37u + 1)$
c_{11}	$(u^{24} - u^{23} + \dots - 5u + 1)(u^{110} - 5u^{108} + \dots + 5654u - 1721)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_7	$(y^{24} - 15y^{23} + \dots - 20y + 1)(y^{110} - 50y^{109} + \dots - 26237y + 2401)$
c_2	$(y^{24} - 3y^{23} + \dots - 48y + 1)$ $\cdot (y^{110} + 30y^{109} + \dots - 18049781y + 5764801)$
c_3	$(y^{24} - 8y^{23} + \dots + 14y + 1)$ $\cdot (y^{110} + 21y^{109} + \dots + 2263623021y + 46908801)$
c_4	$(y^{24} + 22y^{22} + \dots - 12y + 1)(y^{110} + y^{109} + \dots - 205y + 1)$
c_5	$(y^{24} + 6y^{22} + \dots + 16y + 1)$ $\cdot (y^{110} - 35y^{109} + \dots + 362704631019y + 23183412121)$
c_{6}, c_{9}	$(y^{24} - 11y^{23} + \dots - 23y + 1)$ $\cdot (y^{110} - 66y^{109} + \dots - 31330740y + 1283689)$
c_8	$(y^{24} - 12y^{23} + \dots - 4y + 1)(y^{110} + y^{109} + \dots + 19y + 1)$
c_{10}	$(y^{24} + 4y^{23} + \dots + 4y + 1)(y^{110} + 5y^{109} + \dots - 129y + 1)$
c_{11}	$(y^{24} + 13y^{23} + \dots - 17y + 1)$ $\cdot (y^{110} - 10y^{109} + \dots - 173719602y + 2961841)$