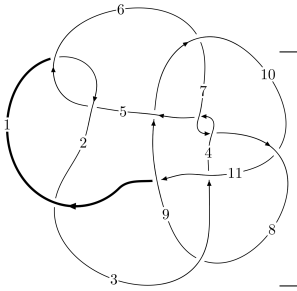
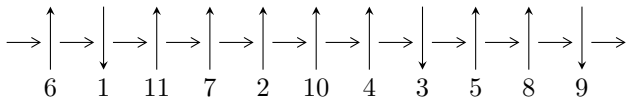
$11a_{136}$ ($K11a_{136}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$2,5 \underset{c_5}{\to} 6,9 \underset{c_9}{\to} 10 \underset{c_6}{\to} 7 \underset{c_1}{\longrightarrow} 1 \underset{c_2}{\longrightarrow} 3 \underset{c_4}{\longrightarrow} 4 \underset{c_8}{\longrightarrow} 8 \underset{c_{11}}{\to} 11 \twoheadrightarrow c_3, c_7, c_{10}$$

Ideals for irreducible components[2]of $X_{\mathbf{par}}$

$$\begin{aligned} I_1^u = \langle & -2.54340 \times 10^{142} u^{97} + 2.06865 \times 10^{143} u^{96} + \cdots + 1.58059 \times 10^{143} b + 1.85123 \times 10^{144}, \\ & 3.46727 \times 10^{144} u^{97} - 3.34809 \times 10^{144} u^{96} + \cdots + 2.05476 \times 10^{144} a + 2.15518 \times 10^{145}, \\ & u^{98} - 2u^{97} + \cdots - 37u + 13 \rangle \\ I_2^u = \langle & u^{16} - u^{15} + 4u^{14} - 4u^{13} + 8u^{12} - 8u^{11} + 9u^{10} - 11u^9 + 6u^8 - 10u^7 + 2u^6 - 7u^5 - 4u^3 + b, \\ & -23u^{16} + 8u^{15} + \cdots + 11a + 8, \\ & u^{17} - u^{16} + 4u^{15} - 4u^{14} + 9u^{13} - 9u^{12} + 12u^{11} - 14u^{10} + 11u^9 - 15u^8 + 6u^7 - 13u^6 + 2u^5 - 8u^4 - 3u^2 - 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 115 representations.

[1]The 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. $\boldsymbol{I_1^u = \langle -2.54 \times 10^{142} u^{97} + 2.07 \times 10^{143} u^{96} + \cdots + 1.58 \times 10^{143} b + 1.85 \times 10^{144},\ 3.47 \times 10^{144} u^{97} - 3.35 \times 10^{144} u^{96} + \cdots + 2.05 \times 10^{144} a + 2.16 \times 10^{145},\ u^{98} - 2u^{97} + \cdots - 37u + 13 \rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -1.68743u^{97} + 1.62943u^{96} + \cdots - 16.4025u - 10.4887 \\ 0.160915u^{97} - 1.30878u^{96} + \cdots + 26.4937u - 11.7123 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.52651u^{97} + 0.320645u^{96} + \cdots + 10.0912u - 22.2010 \\ 0.160915u^{97} - 1.30878u^{96} + \cdots + 26.4937u - 11.7123 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 2.32231u^{97} - 4.60219u^{96} + \cdots + 99.7785u - 27.3089 \\ -0.467847u^{97} + 0.927386u^{96} + \cdots - 17.2220u + 8.26210 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.193677u^{97} + 0.576173u^{96} + \cdots - 24.8261u + 19.1249 \\ 0.836899u^{97} - 0.622249u^{96} + \cdots - 0.896403u + 7.44199 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.993944u^{97} - 0.792161u^{96} + \cdots + 32.8044u - 33.0338 \\ 0.200388u^{97} - 0.948050u^{96} + \cdots + 20.9776u - 8.91727 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -1.97538u^{97} + 3.67562u^{96} + \cdots - 51.3552u + 15.4260 \\ 0.110979u^{97} + 0.369014u^{96} + \cdots - 8.13883u + 4.87331 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -1.97538u^{97} + 3.67562u^{96} + \cdots - 51.3552u + 15.4260 \\ 0.110979u^{97} + 0.369014u^{96} + \cdots - 8.13883u + 4.87331 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -1.93838u^{97} + 4.28511u^{96} + \cdots - 151.895u + 50.7800$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{98} - 2u^{97} + \cdots - 37u + 13$
c_2	$u^{98} + 38u^{97} + \cdots + 3909u + 169$
c_3	$u^{98} + 8u^{97} + \cdots - 2079u - 121$
c_4, c_7	$u^{98} + 4u^{97} + \cdots + 23u + 1$
c_6	$u^{98} + u^{97} + \cdots - 35u - 1$
c_8	$u^{98} + u^{97} + \cdots - 3372u + 329$
c_9	$u^{98} + u^{97} + \cdots - 1099u + 29$
c_{10}	$u^{98} - 6u^{97} + \cdots - 80u - 3$
c_{11}	$u^{98} + 7u^{97} + \cdots - 291u + 55$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{98} + 38y^{97} + \cdots + 3909y + 169$
c_2	$y^{98} + 42y^{97} + \cdots - 1253619y + 28561$
c_3	$y^{98} + 20y^{97} + \cdots - 1311277y + 14641$
c_4, c_7	$y^{98} + 70y^{97} + \cdots + 101y + 1$
c_6	$y^{98} + 3y^{97} + \cdots - 177y + 1$
c_8	$y^{98} + 19y^{97} + \cdots + 5038820y + 108241$
c_9	$y^{98} + 9y^{97} + \cdots - 1350887y + 841$
c_{10}	$y^{98} + 10y^{97} + \cdots - 178y + 9$
c_{11}	$y^{98} + 3y^{97} + \cdots - 70161y + 3025$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.616891 + 0.784397I$ $a = 1.63832 - 0.64003I$ $b = -1.090670 + 0.712199I$	$-0.34672 - 2.97837I$	0
$u = 0.616891 - 0.784397I$ $a = 1.63832 + 0.64003I$ $b = -1.090670 - 0.712199I$	$-0.34672 + 2.97837I$	0
$u = -0.659764 + 0.754623I$ $a = -2.07220 - 1.28632I$ $b = 1.75363 - 0.61398I$	$0.55151 + 3.39643I$	0
$u = -0.659764 - 0.754623I$ $a = -2.07220 + 1.28632I$ $b = 1.75363 + 0.61398I$	$0.55151 - 3.39643I$	0
$u = -0.496333 + 0.874547I$ $a = -0.295450 - 0.901782I$ $b = -0.138248 - 1.273140I$	$-4.93867 - 2.00874I$	0
$u = -0.496333 - 0.874547I$ $a = -0.295450 + 0.901782I$ $b = -0.138248 + 1.273140I$	$-4.93867 + 2.00874I$	0
$u = 0.575791 + 0.810573I$ $a = 1.97739 - 0.70589I$ $b = -0.88079 - 1.49324I$	$2.03874 + 0.53848I$	0
$u = 0.575791 - 0.810573I$ $a = 1.97739 + 0.70589I$ $b = -0.88079 + 1.49324I$	$2.03874 - 0.53848I$	0
$u = -0.867975 + 0.478153I$ $a = -0.836099 - 0.480262I$ $b = 0.800077 + 0.888595I$	$1.79924 + 3.99333I$	0
$u = -0.867975 - 0.478153I$ $a = -0.836099 + 0.480262I$ $b = 0.800077 - 0.888595I$	$1.79924 - 3.99333I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.632212 + 0.756505I$ $a = -1.49685 + 0.04096I$ $b = 0.597802 + 0.996584I$	$1.56819 + 1.66106I$	0
$u = 0.632212 - 0.756505I$ $a = -1.49685 - 0.04096I$ $b = 0.597802 - 0.996584I$	$1.56819 - 1.66106I$	0
$u = -0.641246 + 0.799243I$ $a = -1.013500 - 0.151324I$ $b = 0.905379 + 0.476067I$	$3.77490 - 0.59504I$	0
$u = -0.641246 - 0.799243I$ $a = -1.013500 + 0.151324I$ $b = 0.905379 - 0.476067I$	$3.77490 + 0.59504I$	0
$u = -0.010475 + 1.028500I$ $a = 0.405801 - 0.744711I$ $b = 0.58430 - 1.48647I$	$-7.68730 - 2.02568I$	0
$u = -0.010475 - 1.028500I$ $a = 0.405801 + 0.744711I$ $b = 0.58430 + 1.48647I$	$-7.68730 + 2.02568I$	0
$u = -0.440846 + 0.934645I$ $a = 1.84346 - 0.35760I$ $b = -0.231373 + 0.603261I$	$-4.98729 - 2.56981I$	0
$u = -0.440846 - 0.934645I$ $a = 1.84346 + 0.35760I$ $b = -0.231373 - 0.603261I$	$-4.98729 + 2.56981I$	0
$u = 0.728651 + 0.628934I$ $a = 1.11245 - 1.65306I$ $b = -1.25852 + 1.13921I$	$-2.36351 - 2.54757I$	0
$u = 0.728651 - 0.628934I$ $a = 1.11245 + 1.65306I$ $b = -1.25852 - 1.13921I$	$-2.36351 + 2.54757I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.579700 + 0.891928I$ $a = -0.246451 + 1.116290I$ $b = 1.31896 - 1.31067I$	$1.77426 + 4.06198I$	0
$u = 0.579700 - 0.891928I$ $a = -0.246451 - 1.116290I$ $b = 1.31896 + 1.31067I$	$1.77426 - 4.06198I$	0
$u = -0.103181 + 1.061710I$ $a = 0.049091 - 0.616224I$ $b = -0.343876 - 0.957178I$	$-3.62579 + 0.91604I$	0
$u = -0.103181 - 1.061710I$ $a = 0.049091 + 0.616224I$ $b = -0.343876 + 0.957178I$	$-3.62579 - 0.91604I$	0
$u = -1.011860 + 0.341309I$ $a = -0.260991 + 0.539760I$ $b = 0.436256 - 0.655494I$	$-2.16870 - 6.86474I$	0
$u = -1.011860 - 0.341309I$ $a = -0.260991 - 0.539760I$ $b = 0.436256 + 0.655494I$	$-2.16870 + 6.86474I$	0
$u = -0.934536 + 0.546067I$ $a = 0.851904 + 0.819370I$ $b = -0.979519 - 0.722317I$	$4.03924 + 6.33189I$	0
$u = -0.934536 - 0.546067I$ $a = 0.851904 - 0.819370I$ $b = -0.979519 + 0.722317I$	$4.03924 - 6.33189I$	0
$u = 0.929871 + 0.556246I$ $a = -0.824388 + 1.097890I$ $b = 1.00104 - 1.18467I$	$-0.99305 - 12.05120I$	0
$u = 0.929871 - 0.556246I$ $a = -0.824388 - 1.097890I$ $b = 1.00104 + 1.18467I$	$-0.99305 + 12.05120I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.607517 + 0.904806I$ $a = -2.05552 + 1.58210I$ $b = 0.895894 + 0.828879I$	$-0.72330 + 7.80017I$	0
$u = 0.607517 - 0.904806I$ $a = -2.05552 - 1.58210I$ $b = 0.895894 - 0.828879I$	$-0.72330 - 7.80017I$	0
$u = 0.829244 + 0.372367I$ $a = -0.920831 + 0.041802I$ $b = 0.708117 + 0.178322I$	$1.68869 + 0.41507I$	0
$u = 0.829244 - 0.372367I$ $a = -0.920831 - 0.041802I$ $b = 0.708117 - 0.178322I$	$1.68869 - 0.41507I$	0
$u = -0.637715 + 0.885907I$ $a = 1.24620 + 1.12869I$ $b = -0.625446 + 0.651293I$	$3.50961 - 4.39996I$	0
$u = -0.637715 - 0.885907I$ $a = 1.24620 - 1.12869I$ $b = -0.625446 - 0.651293I$	$3.50961 + 4.39996I$	0
$u = 0.650522 + 0.909255I$ $a = 0.234450 - 0.779015I$ $b = -0.934084 + 0.714480I$	$1.10819 + 3.36665I$	0
$u = 0.650522 - 0.909255I$ $a = 0.234450 + 0.779015I$ $b = -0.934084 - 0.714480I$	$1.10819 - 3.36665I$	0
$u = -0.637437 + 0.925557I$ $a = 1.30512 + 1.42138I$ $b = -2.00689 - 0.34640I$	$0.02639 - 8.44572I$	0
$u = -0.637437 - 0.925557I$ $a = 1.30512 - 1.42138I$ $b = -2.00689 + 0.34640I$	$0.02639 + 8.44572I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.961805 + 0.599639I$ $a = 0.443570 - 0.416648I$ $b = -0.610119 + 0.559112I$	$3.94411 + 0.60196I$	0
$u = 0.961805 - 0.599639I$ $a = 0.443570 + 0.416648I$ $b = -0.610119 - 0.559112I$	$3.94411 - 0.60196I$	0
$u = -0.750684 + 0.850677I$ $a = 0.996395 - 0.701894I$ $b = 0.18373 + 1.73138I$	$1.41987 - 2.83130I$	0
$u = -0.750684 - 0.850677I$ $a = 0.996395 + 0.701894I$ $b = 0.18373 - 1.73138I$	$1.41987 + 2.83130I$	0
$u = -0.628456 + 0.577625I$ $a = -1.49021 - 0.91464I$ $b = 0.661533 + 0.370633I$	$0.88936 + 2.15076I$	0
$u = -0.628456 - 0.577625I$ $a = -1.49021 + 0.91464I$ $b = 0.661533 - 0.370633I$	$0.88936 - 2.15076I$	0
$u = -0.147876 + 1.137580I$ $a = 0.790358 + 0.086392I$ $b = 0.390050 + 1.205370I$	$-7.72343 + 2.40963I$	0
$u = -0.147876 - 1.137580I$ $a = 0.790358 - 0.086392I$ $b = 0.390050 - 1.205370I$	$-7.72343 - 2.40963I$	0
$u = 0.354450 + 0.773791I$ $a = -1.56361 + 0.74448I$ $b = 1.330170 + 0.217693I$	$0.304324 - 0.169063I$	0
$u = 0.354450 - 0.773791I$ $a = -1.56361 - 0.74448I$ $b = 1.330170 - 0.217693I$	$0.304324 + 0.169063I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.788593 + 0.839284I$ $a = 0.246563 + 0.731308I$ $b = -0.215213 - 0.162213I$	$-0.34003 + 2.94218I$	0
$u = 0.788593 - 0.839284I$ $a = 0.246563 - 0.731308I$ $b = -0.215213 + 0.162213I$	$-0.34003 - 2.94218I$	0
$u = 0.254437 + 1.134610I$ $a = -0.363254 - 1.220330I$ $b = -0.069590 - 0.950170I$	$-6.20840 - 0.89525I$	0
$u = 0.254437 - 1.134610I$ $a = -0.363254 + 1.220330I$ $b = -0.069590 + 0.950170I$	$-6.20840 + 0.89525I$	0
$u = 0.518432 + 1.055200I$ $a = 1.046680 - 0.838479I$ $b = -1.019190 - 0.586216I$	$-1.13902 + 3.74818I$	0
$u = 0.518432 - 1.055200I$ $a = 1.046680 + 0.838479I$ $b = -1.019190 + 0.586216I$	$-1.13902 - 3.74818I$	0
$u = 0.542877 + 1.044420I$ $a = -1.82901 + 0.24250I$ $b = 0.092857 + 0.401634I$	$-4.35388 + 7.97905I$	0
$u = 0.542877 - 1.044420I$ $a = -1.82901 - 0.24250I$ $b = 0.092857 - 0.401634I$	$-4.35388 - 7.97905I$	0
$u = -0.622357 + 1.013960I$ $a = 1.75460 + 0.58940I$ $b = -0.969529 + 0.647486I$	$-0.37194 - 7.12003I$	0
$u = -0.622357 - 1.013960I$ $a = 1.75460 - 0.58940I$ $b = -0.969529 - 0.647486I$	$-0.37194 + 7.12003I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.750313+0.925840I$ $a=\ \ 1.013880-0.893072I$ $b=-0.101119+1.137440I$	$-3.57391-2.88241I$	0
$u=-0.750313-0.925840I$ $a=\ \ 1.013880+0.893072I$ $b=-0.101119-1.137440I$	$-3.57391+2.88241I$	0
$u=-0.585650+1.051210I$ $a=-1.77104-0.63001I$ $b=\ \ 1.13257-1.51324I$	$-4.95576-9.43405I$	0
$u=-0.585650-1.051210I$ $a=-1.77104+0.63001I$ $b=\ \ 1.13257+1.51324I$	$-4.95576+9.43405I$	0
$u=\ \ 0.665170+1.011220I$ $a=-2.34754+0.55326I$ $b=\ \ 1.35506+1.45199I$	$-3.49613+7.89288I$	0
$u=\ \ 0.665170-1.011220I$ $a=-2.34754-0.55326I$ $b=\ \ 1.35506-1.45199I$	$-3.49613-7.89288I$	0
$u=\ \ 0.315902+0.719037I$ $a=\ \ 2.50104-1.03660I$ $b=\ \ 0.448777-0.181262I$	$-2.69442-4.06632I$	$-0.58437+4.03909I$
$u=\ \ 0.315902-0.719037I$ $a=\ \ 2.50104+1.03660I$ $b=\ \ 0.448777+0.181262I$	$-2.69442+4.06632I$	$-0.58437-4.03909I$
$u=-0.118535+1.224680I$ $a=-0.225435-0.699797I$ $b=-0.369881-0.770813I$	$-4.06422+1.56618I$	0
$u=-0.118535-1.224680I$ $a=-0.225435+0.699797I$ $b=-0.369881+0.770813I$	$-4.06422-1.56618I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.25091$ $a = -0.143472$ $b = 0.0247908$	2.39487	0
$u = -0.096931 + 1.252370I$ $a = -0.095419 + 0.489360I$ $b = -0.520535 + 1.177090I$	$-8.12216 - 10.14900I$	0
$u = -0.096931 - 1.252370I$ $a = -0.095419 - 0.489360I$ $b = -0.520535 - 1.177090I$	$-8.12216 + 10.14900I$	0
$u = 0.123571 + 1.259900I$ $a = -0.0030896 + 0.1332200I$ $b = 0.228933 + 0.812143I$	$-3.19553 + 4.35794I$	0
$u = 0.123571 - 1.259900I$ $a = -0.0030896 - 0.1332200I$ $b = 0.228933 - 0.812143I$	$-3.19553 - 4.35794I$	0
$u = -0.622970 + 0.375877I$ $a = 0.75207 + 1.49826I$ $b = -1.07825 - 1.03683I$	$-3.17837 + 4.67663I$	$1.92891 - 3.96631I$
$u = -0.622970 - 0.375877I$ $a = 0.75207 - 1.49826I$ $b = -1.07825 + 1.03683I$	$-3.17837 - 4.67663I$	$1.92891 + 3.96631I$
$u = -0.664305 + 1.117590I$ $a = 1.45034 + 0.74035I$ $b = -0.773178 + 1.091240I$	$-0.12881 - 9.67930I$	0
$u = -0.664305 - 1.117590I$ $a = 1.45034 - 0.74035I$ $b = -0.773178 - 1.091240I$	$-0.12881 + 9.67930I$	0
$u = 0.730610 + 1.090670I$ $a = -1.114580 + 0.329073I$ $b = 0.657187 + 0.894189I$	$2.40641 + 5.55593I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.730610 - 1.090670I$ $a = -1.114580 - 0.329073I$ $b = 0.657187 - 0.894189I$	$2.40641 - 5.55593I$	0
$u = -0.510606 + 1.212630I$ $a = -0.717341 - 0.050925I$ $b = -0.020678 - 0.617791I$	$-5.25124 + 1.21183I$	0
$u = -0.510606 - 1.212630I$ $a = -0.717341 + 0.050925I$ $b = -0.020678 + 0.617791I$	$-5.25124 - 1.21183I$	0
$u = 0.709754 + 1.109180I$ $a = 1.80382 - 0.46751I$ $b = -1.04638 - 1.37372I$	$-2.7010 + 18.0711I$	0
$u = 0.709754 - 1.109180I$ $a = 1.80382 + 0.46751I$ $b = -1.04638 + 1.37372I$	$-2.7010 - 18.0711I$	0
$u = -0.706931 + 1.111350I$ $a = -1.44364 - 0.52370I$ $b = 1.07289 - 0.97536I$	$2.29515 - 12.34640I$	0
$u = -0.706931 - 1.111350I$ $a = -1.44364 + 0.52370I$ $b = 1.07289 + 0.97536I$	$2.29515 + 12.34640I$	0
$u = -0.142699 + 0.640237I$ $a = 0.34209 + 1.38789I$ $b = -1.39818 - 0.54862I$	$-2.84596 + 4.76242I$	$-1.34751 - 4.70185I$
$u = -0.142699 - 0.640237I$ $a = 0.34209 - 1.38789I$ $b = -1.39818 + 0.54862I$	$-2.84596 - 4.76242I$	$-1.34751 + 4.70185I$
$u = 0.687518 + 1.182220I$ $a = 0.704245 - 0.351157I$ $b = -0.713048 - 0.294875I$	$-0.78309 + 5.33239I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.687518 - 1.182220I$ $a = 0.704245 + 0.351157I$ $b = -0.713048 + 0.294875I$	$-0.78309 - 5.33239I$	0
$u = 0.561025 + 0.178055I$ $a = 1.210090 + 0.465571I$ $b = 0.439651 + 0.596445I$	$-2.36220 - 3.74881I$	$2.92062 + 2.78211I$
$u = 0.561025 - 0.178055I$ $a = 1.210090 - 0.465571I$ $b = 0.439651 - 0.596445I$	$-2.36220 + 3.74881I$	$2.92062 - 2.78211I$
$u = -0.477393 + 0.343592I$ $a = 0.08519 - 1.52606I$ $b = -0.467321 + 0.682390I$	$-3.54087 - 1.01143I$	$2.17194 + 3.15617I$
$u = -0.477393 - 0.343592I$ $a = 0.08519 + 1.52606I$ $b = -0.467321 - 0.682390I$	$-3.54087 + 1.01143I$	$2.17194 - 3.15617I$
$u = 0.462129$ $a = -1.40065$ $b = 0.814892$	1.18814	6.83070
$u = 0.046008 + 0.429835I$ $a = -2.46965 - 1.26206I$ $b = -0.053075 + 0.407288I$	$0.60508 + 1.67951I$	$2.80427 - 5.83693I$
$u = 0.046008 - 0.429835I$ $a = -2.46965 + 1.26206I$ $b = -0.053075 - 0.407288I$	$0.60508 - 1.67951I$	$2.80427 + 5.83693I$

II. $I_2^u =$
$\langle u^{16}-u^{15}+\cdots-4u^3+b,\ -23u^{16}+8u^{15}+\cdots+11a+8,\ u^{17}-u^{16}+\cdots-3u^2-1\rangle$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 2.09091u^{16} - 0.727273u^{15} + \cdots - 2.18182u - 0.727273 \\ -u^{16} + u^{15} + \cdots + 7u^5 + 4u^3 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.09091u^{16} + 0.272727u^{15} + \cdots - 2.18182u - 0.727273 \\ -u^{16} + u^{15} + \cdots + 7u^5 + 4u^3 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1.18182u^{16} + 2.45455u^{15} + \cdots + 1.36364u - 1.54545 \\ 0.0909091u^{16} - 0.727273u^{15} + \cdots + 0.818182u - 1.72727 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.272727u^{16} + 0.181818u^{15} + \cdots - 1.45455u - 0.818182 \\ 0.363636u^{16} + 0.0909091u^{15} + \cdots - 0.727273u + 0.0909091 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1.54545u^{16} - 0.363636u^{15} + \cdots - 2.09091u - 1.36364 \\ -0.818182u^{16} + 1.54545u^{15} + \cdots - 0.363636u - 0.454545 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{16} + u^{15} + \cdots - 4u^2 + u \\ 1.36364u^{16} - 1.90909u^{15} + \cdots - 0.727273u - 0.909091 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{16} + u^{15} + \cdots - 4u^2 + u \\ 1.36364u^{16} - 1.90909u^{15} + \cdots - 0.727273u - 0.909091 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{78}{11}u^{16} - \frac{63}{11}u^{15} + \cdots + \frac{20}{11}u - \frac{8}{11}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17}+u^{16}+\cdots+3u^2+1$
c_2	$u^{17}+7u^{16}+\cdots-6u-1$
c_3	$u^{17}+u^{16}+\cdots-2u^2-1$
c_4	$u^{17}+u^{16}+\cdots+4u+1$
c_5	$u^{17}-u^{16}+\cdots-3u^2-1$
c_6	$u^{17}-2u^{16}+\cdots+6u+1$
c_7	$u^{17}-u^{16}+\cdots+4u-1$
c_8	$u^{17}+2u^{15}+\cdots-u-1$
c_9	$u^{17}-u^{15}+\cdots+2u-1$
c_{10}	$u^{17}-9u^{16}+\cdots+3u-1$
c_{11}	$u^{17}+8u^{16}+\cdots+4u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{17} + 7y^{16} + \cdots - 6y - 1$
c_2	$y^{17} + 3y^{16} + \cdots - 14y - 1$
c_3	$y^{17} + y^{16} + \cdots - 4y - 1$
c_4, c_7	$y^{17} + 11y^{16} + \cdots - 22y - 1$
c_6	$y^{17} + 4y^{16} + \cdots + 8y - 1$
c_8	$y^{17} + 4y^{16} + \cdots - y - 1$
c_9	$y^{17} - 2y^{16} + \cdots + 18y - 1$
c_{10}	$y^{17} + 7y^{16} + \cdots + 5y - 1$
c_{11}	$y^{17} + 8y^{16} + \cdots + 8y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.122734 + 0.924960I$ $a = -1.00206 - 1.15728I$ $b = 0.062667 - 1.123890I$	$-6.20661 + 0.55436I$	$-3.35974 - 0.56714I$
$u = 0.122734 - 0.924960I$ $a = -1.00206 + 1.15728I$ $b = 0.062667 + 1.123890I$	$-6.20661 - 0.55436I$	$-3.35974 + 0.56714I$
$u = 0.684492 + 0.841900I$ $a = -0.793078 - 0.438836I$ $b = -0.249155 + 1.355890I$	$2.91021 + 2.64160I$	$11.92622 - 2.88965I$
$u = 0.684492 - 0.841900I$ $a = -0.793078 + 0.438836I$ $b = -0.249155 - 1.355890I$	$2.91021 - 2.64160I$	$11.92622 + 2.88965I$
$u = -0.587589 + 0.691285I$ $a = -2.12504 - 1.35796I$ $b = 1.33891 + 0.47968I$	$-1.19877 + 3.86614I$	$3.92641 - 4.92506I$
$u = -0.587589 - 0.691285I$ $a = -2.12504 + 1.35796I$ $b = 1.33891 - 0.47968I$	$-1.19877 - 3.86614I$	$3.92641 + 4.92506I$
$u = -0.605689 + 0.998898I$ $a = 2.08919 + 1.16507I$ $b = -1.25998 + 0.86023I$	$-2.19753 - 8.63849I$	$2.18255 + 9.85874I$
$u = -0.605689 - 0.998898I$ $a = 2.08919 - 1.16507I$ $b = -1.25998 - 0.86023I$	$-2.19753 + 8.63849I$	$2.18255 - 9.85874I$
$u = 1.21767$ $a = 0.238878$ $b = -0.260121$	2.45771	67.1060
$u = -0.250815 + 1.195170I$ $a = -0.273838 - 0.517799I$ $b = -0.401742 - 0.682852I$	$-4.48302 + 1.95126I$	$-1.08122 - 8.77138I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.250815-1.195170I$ $a=-0.273838+0.517799I$ $b=-0.401742+0.682852I$	$-4.48302-1.95126I$	$-1.08122+8.77138I$
$u=-0.524315+0.513369I$ $a=\ \ 0.591551-0.469285I$ $b=\ \ 0.802273-0.099303I$	$-1.62681-5.44009I$	$4.90727+6.73636I$
$u=-0.524315-0.513369I$ $a=\ \ 0.591551+0.469285I$ $b=\ \ 0.802273+0.099303I$	$-1.62681+5.44009I$	$4.90727-6.73636I$
$u=\ \ 0.420659+0.598526I$ $a=\ \ 2.25093-0.56285I$ $b=-0.963143-0.483883I$	$1.070290-0.654757I$	$6.91810+1.92183I$
$u=\ \ 0.420659-0.598526I$ $a=\ \ 2.25093+0.56285I$ $b=-0.963143+0.483883I$	$1.070290+0.654757I$	$6.91810-1.92183I$
$u=\ \ 0.631690+1.122780I$ $a=-0.857095+0.479455I$ $b=\ \ 0.800233+0.266777I$	$-1.01115+5.13361I$	$-3.97273-2.25660I$
$u=\ \ 0.631690-1.122780I$ $a=-0.857095-0.479455I$ $b=\ \ 0.800233-0.266777I$	$-1.01115-5.13361I$	$-3.97273+2.25660I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17}+u^{16}+\cdots+3u^2+1)(u^{98}-2u^{97}+\cdots-37u+13)$
c_2	$(u^{17}+7u^{16}+\cdots-6u-1)(u^{98}+38u^{97}+\cdots+3909u+169)$
c_3	$(u^{17}+u^{16}+\cdots-2u^2-1)(u^{98}+8u^{97}+\cdots-2079u-121)$
c_4	$(u^{17}+u^{16}+\cdots+4u+1)(u^{98}+4u^{97}+\cdots+23u+1)$
c_5	$(u^{17}-u^{16}+\cdots-3u^2-1)(u^{98}-2u^{97}+\cdots-37u+13)$
c_6	$(u^{17}-2u^{16}+\cdots+6u+1)(u^{98}+u^{97}+\cdots-35u-1)$
c_7	$(u^{17}-u^{16}+\cdots+4u-1)(u^{98}+4u^{97}+\cdots+23u+1)$
c_8	$(u^{17}+2u^{15}+\cdots-u-1)(u^{98}+u^{97}+\cdots-3372u+329)$
c_9	$(u^{17}-u^{15}+\cdots+2u-1)(u^{98}+u^{97}+\cdots-1099u+29)$
c_{10}	$(u^{17}-9u^{16}+\cdots+3u-1)(u^{98}-6u^{97}+\cdots-80u-3)$
c_{11}	$(u^{17}+8u^{16}+\cdots+4u+1)(u^{98}+7u^{97}+\cdots-291u+55)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{17}+7y^{16}+\cdots-6y-1)(y^{98}+38y^{97}+\cdots+3909y+169)$
c_2	$(y^{17}+3y^{16}+\cdots-14y-1)(y^{98}+42y^{97}+\cdots-1253619y+28561)$
c_3	$(y^{17}+y^{16}+\cdots-4y-1)(y^{98}+20y^{97}+\cdots-1311277y+14641)$
c_4, c_7	$(y^{17}+11y^{16}+\cdots-22y-1)(y^{98}+70y^{97}+\cdots+101y+1)$
c_6	$(y^{17}+4y^{16}+\cdots+8y-1)(y^{98}+3y^{97}+\cdots-177y+1)$
c_8	$(y^{17}+4y^{16}+\cdots-y-1)(y^{98}+19y^{97}+\cdots+5038820y+108241)$
c_9	$(y^{17}-2y^{16}+\cdots+18y-1)(y^{98}+9y^{97}+\cdots-1350887y+841)$
c_{10}	$(y^{17}+7y^{16}+\cdots+5y-1)(y^{98}+10y^{97}+\cdots-178y+9)$
c_{11}	$(y^{17}+8y^{16}+\cdots+8y-1)(y^{98}+3y^{97}+\cdots-70161y+3025)$