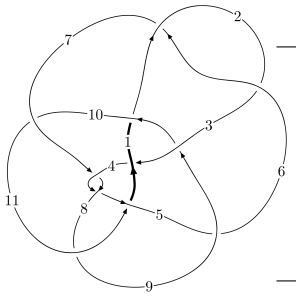
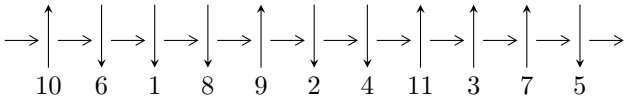
$11a_{326}$ $(K11a_{326})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & -1.39236 \times 10^{318} u^{105} - 4.25978 \times 10^{318} u^{104} + \cdots + 4.43640 \times 10^{318} b - 1.00560 \times 10^{319}, \\ & - 7.92637 \times 10^{317} u^{105} - 2.62180 \times 10^{318} u^{104} + \cdots + 3.41262 \times 10^{317} a - 1.84851 \times 10^{318}, \\ & u^{106} + 3u^{105} + \cdots + 19u - 1 \rangle \\ I_2^u = \langle & 311058123 u^{21} - 50616715 u^{20} + \cdots + 462381937 b - 8437483, \\ & 616215260 u^{21} + 9916634 u^{20} + \cdots + 462381937 a + 572933757,\ u^{22} + 6u^{20} + \cdots + 3u - 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 128 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. $\boldsymbol{I_1^u = \langle -1.39 \times 10^{318} u^{105} - 4.26 \times 10^{318} u^{104} + \cdots + 4.44 \times 10^{318} b - 1.01 \times 10^{319},\ -7.93 \times 10^{317} u^{105} - 2.62 \times 10^{318} u^{104} + \cdots + 3.41 \times 10^{317} a - 1.85 \times 10^{318},\ u^{106} + 3u^{105} + \cdots + 19u - 1 \rangle}$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.32267u^{105} + 7.68268u^{104} + \cdots - 77.0561u + 5.41671 \\ 0.313848u^{105} + 0.960189u^{104} + \cdots - 28.1503u + 2.26670 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.94720u^{105} + 6.49173u^{104} + \cdots - 80.8911u + 5.76853 \\ 0.0903806u^{105} + 0.134570u^{104} + \cdots - 25.1663u + 1.97942 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.536095u^{105} + 0.763638u^{104} + \cdots - 218.875u + 17.7105 \\ 0.0757890u^{105} + 0.130522u^{104} + \cdots - 27.0376u + 2.47019 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.74444u^{105} + 5.31471u^{104} + \cdots - 231.801u + 15.2966 \\ 0.636229u^{105} + 2.00879u^{104} + \cdots - 43.7176u + 2.69763 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 2.00882u^{105} + 6.72249u^{104} + \cdots - 48.9057u + 3.15001 \\ 0.313848u^{105} + 0.960189u^{104} + \cdots - 28.1503u + 2.26670 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -1.45668u^{105} - 4.17549u^{104} + \cdots + 45.8949u - 8.57048 \\ -0.300360u^{105} - 1.16893u^{104} + \cdots - 4.12988u - 0.387022 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.131397u^{105} + 0.259568u^{104} + \cdots + 251.587u - 13.5190 \\ -0.400537u^{105} - 1.31079u^{104} + \cdots + 39.8917u - 2.14966 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.131397u^{105} + 0.259568u^{104} + \cdots + 251.587u - 13.5190 \\ -0.400537u^{105} - 1.31079u^{104} + \cdots + 39.8917u - 2.14966 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.235617u^{105} + 1.09038u^{104} + \cdots - 71.7333u + 9.44104$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{106} - 8u^{105} + \cdots + 8867u - 3445$
c_2, c_6	$u^{106} + 3u^{105} + \cdots + 19u - 1$
c_3	$u^{106} - 10u^{105} + \cdots - 35874u + 5203$
c_4, c_7	$u^{106} - 36u^{104} + \cdots + 191u - 11$
c_5	$u^{106} - 4u^{105} + \cdots - 9831064u + 2445611$
c_8	$u^{106} - 4u^{105} + \cdots - 31u - 1$
c_9	$u^{106} - 19u^{104} + \cdots - 97525u - 19379$
c_{10}	$u^{106} - 22u^{104} + \cdots + 40099u + 4897$
c_{11}	$u^{106} + 2u^{105} + \cdots - 5u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{106} - 26y^{105} + \cdots - 349655619y + 11868025$
c_2, c_6	$y^{106} + 73y^{105} + \cdots + 93y + 1$
c_3	$y^{106} + 12y^{105} + \cdots + 307328166y + 27071209$
c_4, c_7	$y^{106} - 72y^{105} + \cdots - 20795y + 121$
c_5	$y^{106} - 62y^{105} + \cdots - 243034883661070y + 5981013163321$
c_8	$y^{106} - 8y^{105} + \cdots - 345y + 1$
c_9	$y^{106} - 38y^{105} + \cdots - 3790134761y + 375545641$
c_{10}	$y^{106} - 44y^{105} + \cdots - 2051676353y + 23980609$
c_{11}	$y^{106} + 84y^{104} + \cdots - 7y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.004504 + 0.988733I$ $a = 0.315079 + 0.330456I$ $b = 0.50078 + 1.51754I$	$-1.37131 + 2.82623I$	0
$u = 0.004504 - 0.988733I$ $a = 0.315079 - 0.330456I$ $b = 0.50078 - 1.51754I$	$-1.37131 - 2.82623I$	0
$u = -0.988852 + 0.225632I$ $a = 0.526268 + 0.083150I$ $b = -0.571986 - 0.392628I$	$-2.95995 + 0.48399I$	0
$u = -0.988852 - 0.225632I$ $a = 0.526268 - 0.083150I$ $b = -0.571986 + 0.392628I$	$-2.95995 - 0.48399I$	0
$u = 1.009820 + 0.111821I$ $a = 0.138217 + 0.405761I$ $b = 0.954539 + 0.430058I$	$0.96920 + 3.40112I$	0
$u = 1.009820 - 0.111821I$ $a = 0.138217 - 0.405761I$ $b = 0.954539 - 0.430058I$	$0.96920 - 3.40112I$	0
$u = 0.175510 + 0.953433I$ $a = -1.51425 - 0.81029I$ $b = -0.389599 - 0.483666I$	$2.89668 - 0.78297I$	0
$u = 0.175510 - 0.953433I$ $a = -1.51425 + 0.81029I$ $b = -0.389599 + 0.483666I$	$2.89668 + 0.78297I$	0
$u = -0.374861 + 0.992057I$ $a = -2.21826 + 0.55212I$ $b = -1.99480 - 0.51836I$	$-0.83829 + 8.68306I$	0
$u = -0.374861 - 0.992057I$ $a = -2.21826 - 0.55212I$ $b = -1.99480 + 0.51836I$	$-0.83829 - 8.68306I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.432345 + 0.999010I$ $a = 0.865851 + 0.039909I$ $b = 0.902968 - 1.032280I$	$0.74617 - 3.75338I$	0
$u = 0.432345 - 0.999010I$ $a = 0.865851 - 0.039909I$ $b = 0.902968 + 1.032280I$	$0.74617 + 3.75338I$	0
$u = 0.016823 + 0.887495I$ $a = -1.97243 + 1.45010I$ $b = -0.975184 + 0.646919I$	$-1.63192 - 3.20943I$	0
$u = 0.016823 - 0.887495I$ $a = -1.97243 - 1.45010I$ $b = -0.975184 - 0.646919I$	$-1.63192 + 3.20943I$	0
$u = 0.398783 + 1.042840I$ $a = 1.58801 - 0.16903I$ $b = 0.659942 - 0.624132I$	$-3.88026 - 0.66373I$	0
$u = 0.398783 - 1.042840I$ $a = 1.58801 + 0.16903I$ $b = 0.659942 + 0.624132I$	$-3.88026 + 0.66373I$	0
$u = 0.801015 + 0.368704I$ $a = 0.809671 - 0.532522I$ $b = -0.097040 - 0.678675I$	$-1.18628 - 0.97362I$	0
$u = 0.801015 - 0.368704I$ $a = 0.809671 + 0.532522I$ $b = -0.097040 + 0.678675I$	$-1.18628 + 0.97362I$	0
$u = -0.701103 + 0.525072I$ $a = 0.191668 - 1.088290I$ $b = 1.120550 - 0.725615I$	$-2.25902 - 4.46440I$	0
$u = -0.701103 - 0.525072I$ $a = 0.191668 + 1.088290I$ $b = 1.120550 + 0.725615I$	$-2.25902 + 4.46440I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.692760+0.496513I$ $a=\ 0.078806+0.123174I$ $b=\ 0.509835+0.878093I$	$-1.04735+4.26740I$	0
$u=-0.692760-0.496513I$ $a=\ 0.078806-0.123174I$ $b=\ 0.509835-0.878093I$	$-1.04735-4.26740I$	0
$u=\ 0.095837+1.144680I$ $a=\ 0.86253+1.42437I$ $b=\ 0.510950-0.540666I$	$5.27080-3.32416I$	0
$u=\ 0.095837-1.144680I$ $a=\ 0.86253-1.42437I$ $b=\ 0.510950+0.540666I$	$5.27080+3.32416I$	0
$u=-0.023574+1.153230I$ $a=-1.40824-0.41746I$ $b=-0.90634-1.37571I$	$4.45667-0.16513I$	0
$u=-0.023574-1.153230I$ $a=-1.40824+0.41746I$ $b=-0.90634+1.37571I$	$4.45667+0.16513I$	0
$u=\ 0.357793+1.097090I$ $a=\ 2.14597+0.07710I$ $b=\ 0.567709-0.622795I$	$-0.75293-9.92335I$	0
$u=\ 0.357793-1.097090I$ $a=\ 2.14597-0.07710I$ $b=\ 0.567709+0.622795I$	$-0.75293+9.92335I$	0
$u=\ 0.758523+0.371148I$ $a=-0.1018870+0.0081553I$ $b=-0.199249-0.990047I$	$-5.96051-3.62479I$	0
$u=\ 0.758523-0.371148I$ $a=-0.1018870-0.0081553I$ $b=-0.199249+0.990047I$	$-5.96051+3.62479I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.163590 + 0.066017I$ $a = 0.0598488 - 0.0640823I$ $b = -0.987786 + 0.628731I$	$3.40089 - 6.62997I$	0
$u = 1.163590 - 0.066017I$ $a = 0.0598488 + 0.0640823I$ $b = -0.987786 - 0.628731I$	$3.40089 + 6.62997I$	0
$u = -0.406727 + 1.097530I$ $a = 1.71248 - 0.36450I$ $b = 0.625733 + 0.824713I$	$1.61482 + 3.62256I$	0
$u = -0.406727 - 1.097530I$ $a = 1.71248 + 0.36450I$ $b = 0.625733 - 0.824713I$	$1.61482 - 3.62256I$	0
$u = 0.101593 + 1.167760I$ $a = 1.24334 + 1.44830I$ $b = 1.44794 + 2.20911I$	$2.35723 - 8.34056I$	0
$u = 0.101593 - 1.167760I$ $a = 1.24334 - 1.44830I$ $b = 1.44794 - 2.20911I$	$2.35723 + 8.34056I$	0
$u = -0.102743 + 1.170900I$ $a = -1.92213 - 0.58353I$ $b = -1.151570 + 0.157014I$	$3.99548 + 3.56708I$	0
$u = -0.102743 - 1.170900I$ $a = -1.92213 + 0.58353I$ $b = -1.151570 - 0.157014I$	$3.99548 - 3.56708I$	0
$u = -0.316207 + 1.138560I$ $a = 1.259310 - 0.221509I$ $b = 0.882260 + 0.766558I$	$1.44043 + 2.95357I$	0
$u = -0.316207 - 1.138560I$ $a = 1.259310 + 0.221509I$ $b = 0.882260 - 0.766558I$	$1.44043 - 2.95357I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.186634 + 1.167290I$ $a = -2.13192 + 0.37046I$ $b = -1.77762 + 1.27346I$	$4.63424 - 5.02298I$	0
$u = 0.186634 - 1.167290I$ $a = -2.13192 - 0.37046I$ $b = -1.77762 - 1.27346I$	$4.63424 + 5.02298I$	0
$u = -0.799379 + 0.132865I$ $a = 0.308761 - 0.530180I$ $b = -0.757517 + 0.598819I$	$-1.149220 + 0.819705I$	$-5.79346 - 6.19362I$
$u = -0.799379 - 0.132865I$ $a = 0.308761 + 0.530180I$ $b = -0.757517 - 0.598819I$	$-1.149220 - 0.819705I$	$-5.79346 + 6.19362I$
$u = -1.190850 + 0.079603I$ $a = 0.0103139 - 0.0381641I$ $b = -0.959119 - 0.684372I$	$-0.49934 + 12.68120I$	0
$u = -1.190850 - 0.079603I$ $a = 0.0103139 + 0.0381641I$ $b = -0.959119 + 0.684372I$	$-0.49934 - 12.68120I$	0
$u = -0.493513 + 1.087520I$ $a = -0.696366 + 0.086215I$ $b = -0.105701 + 0.295084I$	$-0.32843 + 4.85662I$	0
$u = -0.493513 - 1.087520I$ $a = -0.696366 - 0.086215I$ $b = -0.105701 - 0.295084I$	$-0.32843 - 4.85662I$	0
$u = -0.600947 + 0.531433I$ $a = 0.932449 + 0.440471I$ $b = 0.115276 + 0.584261I$	$-1.178380 - 0.043868I$	$-5.59483 + 0.I$
$u = -0.600947 - 0.531433I$ $a = 0.932449 - 0.440471I$ $b = 0.115276 - 0.584261I$	$-1.178380 + 0.043868I$	$-5.59483 + 0.I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.077677 + 1.206180I$ $a = -1.68619 + 0.30262I$ $b = -0.977064 - 0.485797I$	$5.06946 - 0.97532I$	0
$u = 0.077677 - 1.206180I$ $a = -1.68619 - 0.30262I$ $b = -0.977064 + 0.485797I$	$5.06946 + 0.97532I$	0
$u = -1.216420 + 0.068761I$ $a = 0.122226 + 0.112703I$ $b = 0.768405 + 0.177790I$	$1.244550 + 0.367853I$	0
$u = -1.216420 - 0.068761I$ $a = 0.122226 - 0.112703I$ $b = 0.768405 - 0.177790I$	$1.244550 - 0.367853I$	0
$u = 0.704455 + 0.335430I$ $a = -0.230257 + 0.755369I$ $b = -0.496140 - 1.015630I$	$-3.06693 + 5.91340I$	$-5.33910 - 6.29314I$
$u = 0.704455 - 0.335430I$ $a = -0.230257 - 0.755369I$ $b = -0.496140 + 1.015630I$	$-3.06693 - 5.91340I$	$-5.33910 + 6.29314I$
$u = -0.113729 + 1.219750I$ $a = 1.40995 - 1.15814I$ $b = 0.726644 + 0.472380I$	$3.22712 + 8.49581I$	0
$u = -0.113729 - 1.219750I$ $a = 1.40995 + 1.15814I$ $b = 0.726644 - 0.472380I$	$3.22712 - 8.49581I$	0
$u = -0.031541 + 1.224940I$ $a = 1.57808 - 1.10464I$ $b = 1.83161 - 1.76546I$	$6.73950 + 2.12275I$	0
$u = -0.031541 - 1.224940I$ $a = 1.57808 + 1.10464I$ $b = 1.83161 + 1.76546I$	$6.73950 - 2.12275I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 0.068377 + 1.247170I$ $a = -1.37853 - 0.87229I$ $b = -0.771379 + 0.041317I$	$5.32826 + 0.34844I$	0
$u = \quad 0.068377 - 1.247170I$ $a = -1.37853 + 0.87229I$ $b = -0.771379 - 0.041317I$	$5.32826 - 0.34844I$	0
$u = -0.631262 + 0.289324I$ $a = \quad 0.428728 - 0.158961I$ $b = -0.306482 + 0.572159I$	$-1.208000 + 0.625059I$	$-7.37009 - 3.11596I$
$u = -0.631262 - 0.289324I$ $a = \quad 0.428728 + 0.158961I$ $b = -0.306482 - 0.572159I$	$-1.208000 - 0.625059I$	$-7.37009 + 3.11596I$
$u = -1.32729$ $a = \quad 0.326095$ $b = -1.12870$	-2.61066	0
$u = \quad 0.065415 + 1.325980I$ $a = -1.27538 + 0.63900I$ $b = -0.665910 - 0.084742I$	$4.68399 - 3.43734I$	0
$u = \quad 0.065415 - 1.325980I$ $a = -1.27538 - 0.63900I$ $b = -0.665910 + 0.084742I$	$4.68399 + 3.43734I$	0
$u = -0.054207 + 1.343780I$ $a = \quad 1.199350 + 0.512320I$ $b = \quad 1.36559 + 1.06037I$	$3.20451 + 4.04224I$	0
$u = -0.054207 - 1.343780I$ $a = \quad 1.199350 - 0.512320I$ $b = \quad 1.36559 - 1.06037I$	$3.20451 - 4.04224I$	0
$u = \quad 0.529524 + 1.272820I$ $a = -0.731030 - 0.686544I$ $b = -0.750585 + 0.301375I$	$5.06870 - 1.53215I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.529524 - 1.272820I$ $a = -0.731030 + 0.686544I$ $b = -0.750585 - 0.301375I$	$5.06870 + 1.53215I$	0
$u = 0.311116 + 1.361000I$ $a = -1.69918 + 0.22324I$ $b = -1.46602 + 0.99946I$	$5.69514 - 5.75539I$	0
$u = 0.311116 - 1.361000I$ $a = -1.69918 - 0.22324I$ $b = -1.46602 - 0.99946I$	$5.69514 + 5.75539I$	0
$u = -0.470101 + 1.319380I$ $a = 1.091910 - 0.574427I$ $b = 1.60385 + 0.08129I$	$3.09477 + 5.46170I$	0
$u = -0.470101 - 1.319380I$ $a = 1.091910 + 0.574427I$ $b = 1.60385 - 0.08129I$	$3.09477 - 5.46170I$	0
$u = 0.568944 + 0.000711I$ $a = -0.504225 - 0.369748I$ $b = 0.845681 - 0.675804I$	$1.13963 - 2.56882I$	$0.16888 + 2.12016I$
$u = 0.568944 - 0.000711I$ $a = -0.504225 + 0.369748I$ $b = 0.845681 + 0.675804I$	$1.13963 + 2.56882I$	$0.16888 - 2.12016I$
$u = 0.53425 + 1.33824I$ $a = -1.53258 - 0.24376I$ $b = -1.43103 + 0.58261I$	$4.86742 - 9.03960I$	0
$u = 0.53425 - 1.33824I$ $a = -1.53258 + 0.24376I$ $b = -1.43103 - 0.58261I$	$4.86742 + 9.03960I$	0
$u = 0.52181 + 1.39852I$ $a = 1.49604 + 0.13659I$ $b = 1.37408 - 1.06314I$	$8.0314 - 12.5109I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.52181 - 1.39852I$ $a = 1.49604 - 0.13659I$ $b = 1.37408 + 1.06314I$	$8.0314 + 12.5109I$	0
$u = -0.51635 + 1.40331I$ $a = 1.332900 - 0.183815I$ $b = 1.52570 + 1.11882I$	$2.22217 + 6.15586I$	0
$u = -0.51635 - 1.40331I$ $a = 1.332900 + 0.183815I$ $b = 1.52570 - 1.11882I$	$2.22217 - 6.15586I$	0
$u = -0.53305 + 1.41069I$ $a = 1.52613 - 0.08254I$ $b = 1.39554 + 1.05056I$	$4.1975 + 18.6893I$	0
$u = -0.53305 - 1.41069I$ $a = 1.52613 + 0.08254I$ $b = 1.39554 - 1.05056I$	$4.1975 - 18.6893I$	0
$u = -0.50858 + 1.42395I$ $a = -1.284310 + 0.199332I$ $b = -1.189530 - 0.588679I$	$6.08341 + 6.36617I$	0
$u = -0.50858 - 1.42395I$ $a = -1.284310 - 0.199332I$ $b = -1.189530 + 0.588679I$	$6.08341 - 6.36617I$	0
$u = -0.35962 + 1.47520I$ $a = -1.40447 - 0.34708I$ $b = -1.23059 - 1.05452I$	$5.16254 + 8.34567I$	0
$u = -0.35962 - 1.47520I$ $a = -1.40447 + 0.34708I$ $b = -1.23059 + 1.05452I$	$5.16254 - 8.34567I$	0
$u = -0.53778 + 1.43935I$ $a = -0.974047 + 0.276594I$ $b = -0.931840 - 0.520260I$	$5.80499 + 6.00260I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.53778-1.43935I$ $a=-0.974047-0.276594I$ $b=-0.931840+0.520260I$	$5.80499-6.00260I$	0
$u=0.53504+1.47340I$ $a=0.726951+0.400186I$ $b=1.097410-0.168495I$	$7.90856+0.24319I$	0
$u=0.53504-1.47340I$ $a=0.726951-0.400186I$ $b=1.097410+0.168495I$	$7.90856-0.24319I$	0
$u=-0.57324+1.56752I$ $a=0.543694-0.357317I$ $b=0.882594+0.153067I$	$4.02884-5.89856I$	0
$u=-0.57324-1.56752I$ $a=0.543694+0.357317I$ $b=0.882594-0.153067I$	$4.02884+5.89856I$	0
$u=0.52411+1.59798I$ $a=-0.733847+0.202700I$ $b=-0.700537+0.864249I$	$1.17695-8.45492I$	0
$u=0.52411-1.59798I$ $a=-0.733847-0.202700I$ $b=-0.700537-0.864249I$	$1.17695+8.45492I$	0
$u=0.147042+0.180501I$ $a=5.11515-1.84087I$ $b=-0.702411+0.384809I$	$2.64028+2.19448I$	$0.848936-0.928898I$
$u=0.147042-0.180501I$ $a=5.11515+1.84087I$ $b=-0.702411-0.384809I$	$2.64028-2.19448I$	$0.848936+0.928898I$
$u=0.156701+0.151110I$ $a=-1.21241+2.18071I$ $b=0.934257-0.691915I$	$1.02581-2.96908I$	$6.06244+5.34743I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.156701 - 0.151110I$ $a = -1.21241 - 2.18071I$ $b = 0.934257 + 0.691915I$	$1.02581 + 2.96908I$	$6.06244 - 5.34743I$
$u = 0.145461 + 0.038298I$ $a = 4.87152 - 1.53021I$ $b = 0.686731 - 0.192242I$	$1.53431 - 0.08305I$	$7.93818 - 0.76201I$
$u = 0.145461 - 0.038298I$ $a = 4.87152 + 1.53021I$ $b = 0.686731 + 0.192242I$	$1.53431 + 0.08305I$	$7.93818 + 0.76201I$
$u = -0.0204907 + 0.1082280I$ $a = -6.53654 + 11.18410I$ $b = -0.967717 + 0.480107I$	$-0.61540 + 7.55088I$	$-2.60197 - 3.80824I$
$u = -0.0204907 - 0.1082280I$ $a = -6.53654 - 11.18410I$ $b = -0.967717 - 0.480107I$	$-0.61540 - 7.55088I$	$-2.60197 + 3.80824I$
$u = 2.05765$ $a = -0.0115115$ $b = 0.377018$	-5.34489	0

II. $\boldsymbol{I_2^u = \langle 3.11\times 10^8 u^{21} - 5.06\times 10^7 u^{20} + \cdots + 4.62\times 10^8 b - 8.44\times 10^6,\ 6.16\times 10^8 u^{21} + 9.92\times 10^6 u^{20} + \cdots + 4.62\times 10^8 a + 5.73\times 10^8,\ u^{22} + 6u^{20} + \cdots + 3u - 1\rangle}$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.33270u^{21} - 0.0214468u^{20} + \cdots + 16.3655u - 1.23909 \\ -0.672730u^{21} + 0.109469u^{20} + \cdots + 4.81158u + 0.0182479 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.696047u^{21} - 0.161894u^{20} + \cdots + 14.7684u - 1.34848 \\ -0.715551u^{21} + 0.0211544u^{20} + \cdots + 5.35065u + 0.268079 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.144867u^{21} + 0.978270u^{20} + \cdots + 8.34464u - 3.62987 \\ -0.0360791u^{21} - 0.0309779u^{20} + \cdots + 3.21453u - 1.09114 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.70592u^{21} - 0.186649u^{20} + \cdots - 13.7543u + 2.74226 \\ 0.421055u^{21} - 0.0663724u^{20} + \cdots - 4.73592u + 0.397875 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.659968u^{21} - 0.130916u^{20} + \cdots + 11.5539u - 1.25734 \\ -0.672730u^{21} + 0.109469u^{20} + \cdots + 4.81158u + 0.0182479 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.260687u^{21} - 0.718677u^{20} + \cdots + 5.80976u + 1.01397 \\ -0.711817u^{21} - 0.495571u^{20} + \cdots + 2.41133u + 1.03330 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -1.53126u^{21} - 0.483339u^{20} + \cdots + 15.6276u - 2.33995 \\ -0.416122u^{21} + 0.251675u^{20} + \cdots + 6.97099u - 0.324031 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -1.53126u^{21} - 0.483339u^{20} + \cdots + 15.6276u - 2.33995 \\ -0.416122u^{21} + 0.251675u^{20} + \cdots + 6.97099u - 0.324031 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{465461009}{462381937}u^{21} + \frac{920613219}{462381937}u^{20} + \cdots - \frac{1642260315}{462381937}u - \frac{4184798742}{462381937}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{22} - 9u^{21} + \cdots - 11u + 1$
c_2	$u^{22} + 6u^{20} + \cdots + 3u - 1$
c_3	$u^{22} + 3u^{21} + \cdots + 2u + 1$
c_4	$u^{22} + u^{21} + \cdots + u - 1$
c_5	$u^{22} - u^{21} + \cdots + 2u + 1$
c_6	$u^{22} + 6u^{20} + \cdots - 3u - 1$
c_7	$u^{22} - u^{21} + \cdots - u - 1$
c_8	$u^{22} + 9u^{21} + \cdots + 3u - 1$
c_9	$u^{22} - u^{21} + \cdots - u - 1$
c_{10}	$u^{22} + 3u^{21} + \cdots + 21u - 5$
c_{11}	$u^{22} + u^{21} + \cdots + 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{22} - 3y^{21} + \cdots - 33y + 1$
c_2, c_6	$y^{22} + 12y^{21} + \cdots + 15y + 1$
c_3	$y^{22} - 13y^{21} + \cdots + 8y + 1$
c_4, c_7	$y^{22} - 21y^{21} + \cdots - 9y + 1$
c_5	$y^{22} - 19y^{21} + \cdots - 16y + 1$
c_8	$y^{22} - 9y^{21} + \cdots - 19y + 1$
c_9	$y^{22} - 11y^{21} + \cdots - 19y + 1$
c_{10}	$y^{22} - 9y^{21} + \cdots - 371y + 25$
c_{11}	$y^{22} + 3y^{21} + \cdots - y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.222746 + 0.907894I$ $a = 2.03946 + 1.59282I$ $b = 1.266430 + 0.461280I$	$0.36060 - 8.25334I$	$2.83947 + 7.63102I$
$u = 0.222746 - 0.907894I$ $a = 2.03946 - 1.59282I$ $b = 1.266430 - 0.461280I$	$0.36060 + 8.25334I$	$2.83947 - 7.63102I$
$u = -0.246048 + 0.886009I$ $a = 1.25931 - 1.49417I$ $b = 0.878783 + 0.282838I$	$3.59823 + 3.07145I$	$4.51954 - 4.54839I$
$u = -0.246048 - 0.886009I$ $a = 1.25931 + 1.49417I$ $b = 0.878783 - 0.282838I$	$3.59823 - 3.07145I$	$4.51954 + 4.54839I$
$u = 0.020675 + 1.210050I$ $a = -0.916160 + 0.468193I$ $b = -0.742004 - 0.587064I$	$5.49012 - 1.99940I$	$7.14235 + 2.66277I$
$u = 0.020675 - 1.210050I$ $a = -0.916160 - 0.468193I$ $b = -0.742004 + 0.587064I$	$5.49012 + 1.99940I$	$7.14235 - 2.66277I$
$u = 0.784102 + 0.072947I$ $a = 0.678691 - 0.020479I$ $b = 0.280288 - 0.262690I$	$0.275443 - 0.077477I$	$-0.515061 - 1.191364I$
$u = 0.784102 - 0.072947I$ $a = 0.678691 + 0.020479I$ $b = 0.280288 + 0.262690I$	$0.275443 + 0.077477I$	$-0.515061 + 1.191364I$
$u = 0.060765 + 1.259520I$ $a = -1.66722 + 0.24295I$ $b = -1.116410 - 0.119930I$	$5.20735 - 2.19424I$	$7.08492 + 2.83841I$
$u = 0.060765 - 1.259520I$ $a = -1.66722 - 0.24295I$ $b = -1.116410 + 0.119930I$	$5.20735 + 2.19424I$	$7.08492 - 2.83841I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.685709+0.044403I$ $a=\ \ 0.022521-0.524665I$ $b=\ \ 0.898671-0.630847I$	$0.20007-3.13940I$	$-5.66733+4.39177I$
$u=-0.685709-0.044403I$ $a=\ \ 0.022521+0.524665I$ $b=\ \ 0.898671+0.630847I$	$0.20007+3.13940I$	$-5.66733-4.39177I$
$u=-0.032705+1.338780I$ $a=\ \ 0.150619+0.181179I$ $b=-0.143457+1.012660I$	$2.36180+6.75752I$	$2.14760-5.66405I$
$u=-0.032705-1.338780I$ $a=\ \ 0.150619-0.181179I$ $b=-0.143457-1.012660I$	$2.36180-6.75752I$	$2.14760+5.66405I$
$u=\ \ 1.35835$ $a=-0.272613$ $b=\ \ 1.06465$	-2.53570	47.8660
$u=-0.41396+1.41951I$ $a=-1.47000-0.10658I$ $b=-1.28210-0.79536I$	$4.93626+7.53570I$	$0.99061-3.53310I$
$u=-0.41396-1.41951I$ $a=-1.47000+0.10658I$ $b=-1.28210+0.79536I$	$4.93626-7.53570I$	$0.99061+3.53310I$
$u=\ \ 0.47367+1.40435I$ $a=-1.280780-0.175095I$ $b=-1.55280+0.85270I$	$2.55491-6.09609I$	$7.79395+10.16302I$
$u=\ \ 0.47367-1.40435I$ $a=-1.280780+0.175095I$ $b=-1.55280-0.85270I$	$2.55491+6.09609I$	$7.79395-10.16302I$
$u=\ \ 0.131904+0.260531I$ $a=\ \ 0.76146+3.92106I$ $b=\ \ 0.615723+1.055180I$	$-2.91039+2.89939I$	$-7.87662-2.74117I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 0.131904 - 0.260531I$		
$a = \quad 0.76146 - 3.92106I$	$-2.91039 - 2.89939I$	$-7.87662 + 2.74117I$
$b = \quad 0.615723 - 1.055180I$		
$u = -1.98925$		
$a = \quad 0.116796$	-5.42454	-52.7850
$b = -0.270895$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{22}-9u^{21}+\cdots-11u+1)(u^{106}-8u^{105}+\cdots+8867u-3445)$
c_2	$(u^{22}+6u^{20}+\cdots+3u-1)(u^{106}+3u^{105}+\cdots+19u-1)$
c_3	$(u^{22}+3u^{21}+\cdots+2u+1)(u^{106}-10u^{105}+\cdots-35874u+5203)$
c_4	$(u^{22}+u^{21}+\cdots+u-1)(u^{106}-36u^{104}+\cdots+191u-11)$
c_5	$(u^{22}-u^{21}+\cdots+2u+1)(u^{106}-4u^{105}+\cdots-9831064u+2445611)$
c_6	$(u^{22}+6u^{20}+\cdots-3u-1)(u^{106}+3u^{105}+\cdots+19u-1)$
c_7	$(u^{22}-u^{21}+\cdots-u-1)(u^{106}-36u^{104}+\cdots+191u-11)$
c_8	$(u^{22}+9u^{21}+\cdots+3u-1)(u^{106}-4u^{105}+\cdots-31u-1)$
c_9	$(u^{22}-u^{21}+\cdots-u-1)(u^{106}-19u^{104}+\cdots-97525u-19379)$
c_{10}	$(u^{22}+3u^{21}+\cdots+21u-5)(u^{106}-22u^{104}+\cdots+40099u+4897)$
c_{11}	$(u^{22}+u^{21}+\cdots+3u+1)(u^{106}+2u^{105}+\cdots-5u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{22} - 3y^{21} + \cdots - 33y + 1)$ $\cdot (y^{106} - 26y^{105} + \cdots - 349655619y + 11868025)$
c_2, c_6	$(y^{22} + 12y^{21} + \cdots + 15y + 1)(y^{106} + 73y^{105} + \cdots + 93y + 1)$
c_3	$(y^{22} - 13y^{21} + \cdots + 8y + 1)$ $\cdot (y^{106} + 12y^{105} + \cdots + 307328166y + 27071209)$
c_4, c_7	$(y^{22} - 21y^{21} + \cdots - 9y + 1)(y^{106} - 72y^{105} + \cdots - 20795y + 121)$
c_5	$(y^{22} - 19y^{21} + \cdots - 16y + 1)$ $\cdot (y^{106} - 62y^{105} + \cdots - 243034883661070y + 5981013163321)$
c_8	$(y^{22} - 9y^{21} + \cdots - 19y + 1)(y^{106} - 8y^{105} + \cdots - 345y + 1)$
c_9	$(y^{22} - 11y^{21} + \cdots - 19y + 1)$ $\cdot (y^{106} - 38y^{105} + \cdots - 3790134761y + 375545641)$
c_{10}	$(y^{22} - 9y^{21} + \cdots - 371y + 25)$ $\cdot (y^{106} - 44y^{105} + \cdots - 2051676353y + 23980609)$
c_{11}	$(y^{22} + 3y^{21} + \cdots - y + 1)(y^{106} + 84y^{104} + \cdots - 7y + 1)$