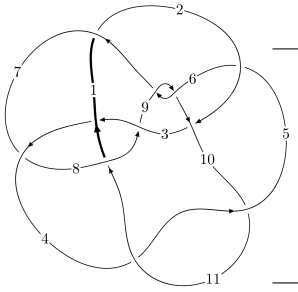
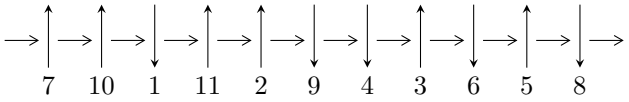
$11a_{285}$ $(K11a_{285})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u &= \langle -16908464923u^{31} + 270944948124u^{30} + \cdots + 32177743216b + 515902532096, \\
&\quad 8847487859u^{31} - 158877780023u^{30} + \cdots + 32177743216a - 2308582971600, \\
&\quad u^{32} - 16u^{31} + \cdots - 928u + 64\rangle \\
I_2^u &= \langle -3064433897u^{10}a^5 + 2605872u^{10}a^4 + \cdots - 83413469a - 386189933, \\
&\quad u^{10}a^4 - 2u^{10}a^3 + \cdots + 17a + 26, \\
&\quad u^{11} + 3u^{10} + 8u^9 + 13u^8 + 18u^7 + 20u^6 + 18u^5 + 15u^4 + 9u^3 + 5u^2 + 2u + 1\rangle \\
I_3^u &= \langle 66u^{17} - 107u^{16} + \cdots + 241b + 1451,\ -1781u^{17} + 8120u^{16} + \cdots + 1205a - 4294, \\
&\quad u^{18} - 5u^{17} + \cdots - 16u + 5\rangle
\end{aligned}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 116 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. $I_1^u =$
$\langle -1.69\times10^{10}u^{31}+2.71\times10^{11}u^{30}+\cdots+3.22\times10^{10}b+5.16\times10^{11},\ 8.85\times10^{9}u^{31}-1.59\times10^{11}u^{30}+\cdots+3.22\times10^{10}a-2.31\times10^{12},\ u^{32}-16u^{31}+\cdots-928u+64\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_9 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_7 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_2 = \begin{pmatrix}-0.274957u^{31}+4.93751u^{30}+\cdots-868.606u+71.7447\\0.525471u^{31}-8.42026u^{30}+\cdots+288.189u-16.0329\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}-u\\u\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-0.287683u^{31}+4.19788u^{30}+\cdots-397.002u+38.1146\\0.538197u^{31}-7.68064u^{30}+\cdots-183.415u+17.5972\end{pmatrix}$$
$$a_1 = \begin{pmatrix}0.130093u^{31}-1.36022u^{30}+\cdots-639.751u+53.3330\\-0.139506u^{31}+1.15527u^{30}+\cdots+432.165u-27.7501\end{pmatrix}$$
$$a_5 = \begin{pmatrix}0.138364u^{31}-2.12418u^{30}+\cdots-252.671u+29.4083\\-0.0517974u^{31}+0.687312u^{30}+\cdots+103.202u-5.54028\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0.0893083u^{31}-0.542520u^{30}+\cdots-689.705u+59.6116\\0.785648u^{31}-12.8126u^{30}+\cdots+866.867u-59.3123\end{pmatrix}$$
$$a_4 = \begin{pmatrix}-0.586797u^{31}+9.44317u^{30}+\cdots-913.295u+78.7017\\1.17594u^{31}-17.7691u^{30}+\cdots+35.8365u+6.83868\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-0.364711u^{31}+5.33393u^{30}+\cdots+228.342u-24.1741\\0.367792u^{31}-5.49811u^{30}+\cdots+78.9380u-7.54925\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-0.364711u^{31}+5.33393u^{30}+\cdots+228.342u-24.1741\\0.367792u^{31}-5.49811u^{30}+\cdots+78.9380u-7.54925\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes
$= \frac{30004216785}{8044435804}u^{31}-\frac{117366210032}{2011108951}u^{30}+\cdots+\frac{6780572708835}{2011108951}u-\frac{518436882606}{2011108951}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_8	$u^{32} + 7u^{30} + \cdots + 9u + 7$
c_2, c_5	$u^{32} - 3u^{30} + \cdots + 2u + 1$
c_3	$u^{32} - 24u^{31} + \cdots - 32u + 8$
c_4, c_{10}	$u^{32} - 22u^{31} + \cdots - 31744u + 2048$
c_6, c_9	$u^{32} - 16u^{31} + \cdots - 928u + 64$
c_7, c_{11}	$u^{32} + 2u^{31} + \cdots + u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_8	$y^{32} + 14y^{31} + \cdots + 255y + 49$
c_2, c_5	$y^{32} - 6y^{31} + \cdots - 4y + 1$
c_3	$y^{32} - 6y^{31} + \cdots - 1952y + 64$
c_4, c_{10}	$y^{32} + 18y^{31} + \cdots - 13631488y + 4194304$
c_6, c_9	$y^{32} + 20y^{31} + \cdots - 26112y + 4096$
c_7, c_{11}	$y^{32} - 2y^{31} + \cdots + 7y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.069081+0.991260I$ $a=-1.59237-0.40807I$ $b=\ \ 0.981760-0.539794I$	$2.80061+0.23375I$	$8.56360+0.I$
$u=-0.069081-0.991260I$ $a=-1.59237+0.40807I$ $b=\ \ 0.981760+0.539794I$	$2.80061-0.23375I$	$8.56360+0.I$
$u=\ \ 0.963662+0.325614I$ $a=-0.260995+0.288100I$ $b=-0.701262-0.982261I$	$-7.41499+4.16698I$	$-7.97108-5.36120I$
$u=\ \ 0.963662-0.325614I$ $a=-0.260995-0.288100I$ $b=-0.701262+0.982261I$	$-7.41499-4.16698I$	$-7.97108+5.36120I$
$u=-0.011548+0.974177I$ $a=\ \ 2.17659+0.12878I$ $b=-1.12385+1.01238I$	$-1.44736-2.80022I$	$2.50557+2.98682I$
$u=-0.011548-0.974177I$ $a=\ \ 2.17659-0.12878I$ $b=-1.12385-1.01238I$	$-1.44736+2.80022I$	$2.50557-2.98682I$
$u=-0.390961+1.072250I$ $a=\ \ 0.784641+0.086239I$ $b=-0.460785+0.225412I$	$0.01128+2.43267I$	0
$u=-0.390961-1.072250I$ $a=\ \ 0.784641-0.086239I$ $b=-0.460785-0.225412I$	$0.01128-2.43267I$	0
$u=\ \ 1.162110+0.060966I$ $a=-0.050223-0.185144I$ $b=\ \ 0.697927+1.083640I$	$-8.5372+12.2214I$	0
$u=\ \ 1.162110-0.060966I$ $a=-0.050223+0.185144I$ $b=\ \ 0.697927-1.083640I$	$-8.5372-12.2214I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.293991 + 1.175380I$ $a = -1.58096 - 0.16342I$ $b = 1.089410 - 0.886387I$	$4.59065 - 3.34198I$	0
$u = 0.293991 - 1.175380I$ $a = -1.58096 + 0.16342I$ $b = 1.089410 + 0.886387I$	$4.59065 + 3.34198I$	0
$u = -0.017338 + 0.774002I$ $a = 0.181918 + 1.187670I$ $b = -0.631219 - 0.362074I$	$-1.67497 + 2.82103I$	$2.81601 - 3.13394I$
$u = -0.017338 - 0.774002I$ $a = 0.181918 - 1.187670I$ $b = -0.631219 + 0.362074I$	$-1.67497 - 2.82103I$	$2.81601 + 3.13394I$
$u = 0.689766 + 1.084060I$ $a = -0.976191 - 0.334653I$ $b = 1.023330 - 0.579332I$	$0.94528 - 2.67893I$	0
$u = 0.689766 - 1.084060I$ $a = -0.976191 + 0.334653I$ $b = 1.023330 + 0.579332I$	$0.94528 + 2.67893I$	0
$u = 0.568936 + 1.193230I$ $a = 1.59592 - 0.00124I$ $b = -1.16760 + 1.18399I$	$-4.66339 - 9.68262I$	0
$u = 0.568936 - 1.193230I$ $a = 1.59592 + 0.00124I$ $b = -1.16760 - 1.18399I$	$-4.66339 + 9.68262I$	0
$u = 0.215422 + 1.325080I$ $a = 1.087280 + 0.231048I$ $b = -0.856658 + 0.452941I$	$5.14597 + 1.67947I$	0
$u = 0.215422 - 1.325080I$ $a = 1.087280 - 0.231048I$ $b = -0.856658 - 0.452941I$	$5.14597 - 1.67947I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.380870 + 0.268452I$ $a = 0.081994 + 0.203286I$ $b = -0.477164 - 0.458499I$	$-1.75461 + 5.81807I$	0
$u = 1.380870 - 0.268452I$ $a = 0.081994 - 0.203286I$ $b = -0.477164 + 0.458499I$	$-1.75461 - 5.81807I$	0
$u = 0.58508 + 1.34607I$ $a = -1.62335 + 0.16272I$ $b = 1.17347 - 1.23003I$	$-4.5311 - 18.3328I$	0
$u = 0.58508 - 1.34607I$ $a = -1.62335 - 0.16272I$ $b = 1.17347 + 1.23003I$	$-4.5311 + 18.3328I$	0
$u = 0.63966 + 1.32722I$ $a = 1.276940 + 0.097523I$ $b = -1.102100 + 0.817123I$	$1.78578 - 12.54500I$	0
$u = 0.63966 - 1.32722I$ $a = 1.276940 - 0.097523I$ $b = -1.102100 - 0.817123I$	$1.78578 + 12.54500I$	0
$u = 0.91660 + 1.20168I$ $a = -0.567740 - 0.360034I$ $b = 0.833279 - 0.130849I$	$0.68711 - 4.21425I$	0
$u = 0.91660 - 1.20168I$ $a = -0.567740 + 0.360034I$ $b = 0.833279 + 0.130849I$	$0.68711 + 4.21425I$	0
$u = 0.326786 + 0.069422I$ $a = 0.97596 - 1.03690I$ $b = 0.615647 - 0.339196I$	$1.110970 - 0.707958I$	$6.93245 + 3.29648I$
$u = 0.326786 - 0.069422I$ $a = 0.97596 + 1.03690I$ $b = 0.615647 + 0.339196I$	$1.110970 + 0.707958I$	$6.93245 - 3.29648I$

	Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=$	$0.74605+1.70600I$		
$a=$	$0.115579-0.368848I$	$-3.50340+5.56191I$	0
$b=$	$0.105807+0.403642I$		
$u=$	$0.74605-1.70600I$		
$a=$	$0.115579+0.368848I$	$-3.50340-5.56191I$	0
$b=$	$0.105807-0.403642I$		

II. $I_2^u = \langle -3.06\times 10^9 a^5 u^{10} + 2.61\times 10^6 a^4 u^{10} + \cdots - 8.34\times 10^7 a - 3.86\times 10^8,\ u^{10}a^4 - 2u^{10}a^3 + \cdots + 17a + 26,\ u^{11} + 3u^{10} + \cdots + 2u + 1\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} a \\ 15.4325a^5u^{10} - 0.0131231a^4u^{10} + \cdots + 0.420069a + 1.94485 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 18.7665a^5u^{10} - 0.397589a^4u^{10} + \cdots + 1.28801a - 0.233448 \\ -3.33405a^5u^{10} + 0.384466a^4u^{10} + \cdots + 0.132055a + 2.17830 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -15.4325a^5u^{10} + 0.0131231a^4u^{10} + \cdots + 0.579931a - 1.94485 \\ -3.33405a^5u^{10} + 0.384466a^4u^{10} + \cdots + 0.132055a + 2.17830 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -9.34723a^5u^{10} - 4.17923a^4u^{10} + \cdots - 1.73376a + 3.01241 \\ -11.6963a^5u^{10} - 5.05510a^4u^{10} + \cdots + 0.553825a - 1.80148 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 27.6580a^5u^{10} + 14.2554a^4u^{10} + \cdots - 0.232159a - 1.97655 \\ -11.2026a^5u^{10} - 4.82036a^4u^{10} + \cdots - 1.18924a + 2.53573 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 10.1325a^5u^{10} - 0.446147a^4u^{10} + \cdots + 0.381091a + 2.69045 \\ -5.54424a^5u^{10} + 0.245395a^4u^{10} + \cdots + 2.22025a - 2.46057 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -77.2129a^5u^{10} - 33.1153a^4u^{10} + \cdots - 0.660872a - 0.00581236 \\ 24.7170a^5u^{10} + 10.4299a^4u^{10} + \cdots + 0.680370a + 0.715387 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -77.2129a^5u^{10} - 33.1153a^4u^{10} + \cdots - 0.660872a - 0.00581236 \\ 24.7170a^5u^{10} + 10.4299a^4u^{10} + \cdots + 0.680370a + 0.715387 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= \frac{4036276680}{198570719}u^{10}a^5 - \frac{180111700}{198570719}u^{10}a^4 + \cdots + \frac{284371904}{198570719}a - \frac{303474202}{198570719}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_8	$u^{66} + u^{65} + \cdots + 345266u + 66193$
c_2, c_5	$u^{66} - u^{65} + \cdots + 30u + 1$
c_3	$(u^{11} + 5u^{10} + 12u^9 + 15u^8 + 8u^7 - 4u^6 - 8u^5 - 3u^4 + 3u^3 + 3u^2 - 1)^6$
c_4, c_{10}	$(u^3 + u^2 + 2u + 1)^{22}$
c_6, c_9	$(u^{11} + 3u^{10} + \cdots + 2u + 1)^6$
c_7, c_{11}	$u^{66} + 3u^{65} + \cdots + 2656u + 691$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_8	$y^{66} + 27y^{65} + \cdots + 109594377816y + 4381513249$
c_2, c_5	$y^{66} + 15y^{65} + \cdots - 104y + 1$
c_3	$(y^{11} - y^{10} + \cdots + 6y - 1)^6$
c_4, c_{10}	$(y^3 + 3y^2 + 2y - 1)^{22}$
c_6, c_9	$(y^{11} + 7y^{10} + \cdots - 6y - 1)^6$
c_7, c_{11}	$y^{66} - 25y^{65} + \cdots - 19619480y + 477481$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.253759 + 0.946686I$ $a = 0.665253 + 0.858657I$ $b = -0.283695 + 1.126660I$	$-4.53141 - 2.38817I$	$-3.94579 + 6.03333I$
$u = 0.253759 + 0.946686I$ $a = 0.400243 + 0.809909I$ $b = -0.50925 - 1.57544I$	$-0.39383 - 5.21629I$	$2.58348 + 9.01278I$
$u = 0.253759 + 0.946686I$ $a = -2.38419 + 0.38315I$ $b = 0.697054 - 0.297456I$	$-0.39383 - 5.21629I$	$2.58348 + 9.01278I$
$u = 0.253759 + 0.946686I$ $a = -1.41166 - 2.08569I$ $b = 1.62854 + 2.14254I$	$-4.53141 - 8.04441I$	$-3.94579 + 11.99222I$
$u = 0.253759 + 0.946686I$ $a = 2.81803 - 0.28780I$ $b = -1.78265 + 0.86501I$	$-4.53141 - 2.38817I$	$-3.94579 + 6.03333I$
$u = 0.253759 + 0.946686I$ $a = 2.54048 - 1.25869I$ $b = 0.001211 + 0.219744I$	$-4.53141 - 8.04441I$	$-3.94579 + 11.99222I$
$u = 0.253759 - 0.946686I$ $a = 0.665253 - 0.858657I$ $b = -0.283695 - 1.126660I$	$-4.53141 + 2.38817I$	$-3.94579 - 6.03333I$
$u = 0.253759 - 0.946686I$ $a = 0.400243 - 0.809909I$ $b = -0.50925 + 1.57544I$	$-0.39383 + 5.21629I$	$2.58348 - 9.01278I$
$u = 0.253759 - 0.946686I$ $a = -2.38419 - 0.38315I$ $b = 0.697054 + 0.297456I$	$-0.39383 + 5.21629I$	$2.58348 - 9.01278I$
$u = 0.253759 - 0.946686I$ $a = -1.41166 + 2.08569I$ $b = 1.62854 - 2.14254I$	$-4.53141 + 8.04441I$	$-3.94579 - 11.99222I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.253759 - 0.946686I$ $a = 2.81803 + 0.28780I$ $b = -1.78265 - 0.86501I$	$-4.53141 + 2.38817I$	$-3.94579 - 6.03333I$
$u = 0.253759 - 0.946686I$ $a = 2.54048 + 1.25869I$ $b = 0.001211 - 0.219744I$	$-4.53141 + 8.04441I$	$-3.94579 - 11.99222I$
$u = -1.10821$ $a = -0.326400 + 0.336410I$ $b = 0.74092 - 1.23654I$	$-7.04782 - 2.82812I$	$-15.7711 + 2.9794I$
$u = -1.10821$ $a = -0.326400 - 0.336410I$ $b = 0.74092 + 1.23654I$	$-7.04782 + 2.82812I$	$-15.7711 - 2.9794I$
$u = -1.10821$ $a = 0.230392 + 0.070664I$ $b = -0.121109 - 0.723675I$	-2.91024	$-9.24183 + 0.I$
$u = -1.10821$ $a = 0.230392 - 0.070664I$ $b = -0.121109 + 0.723675I$	-2.91024	$-9.24183 + 0.I$
$u = -1.10821$ $a = -0.209195 + 0.118260I$ $b = -0.459379 + 0.997538I$	$-7.04782 - 2.82812I$	$-15.7711 + 2.9794I$
$u = -1.10821$ $a = -0.209195 - 0.118260I$ $b = -0.459379 - 0.997538I$	$-7.04782 + 2.82812I$	$-15.7711 - 2.9794I$
$u = -0.572881 + 0.536287I$ $a = -0.178622 - 0.995404I$ $b = -0.391403 - 1.054420I$	$-5.09306 + 5.07591I$	$-7.14557 - 8.04304I$
$u = -0.572881 + 0.536287I$ $a = 1.097050 - 0.676541I$ $b = -0.663433 - 0.206361I$	$-0.95548 + 2.24779I$	$-0.61631 - 5.06360I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.572881+0.536287I$ $a=-1.198410+0.589737I$ $b=-0.430728+0.376103I$	$-5.09306-0.58034I$	$-7.14557-2.08415I$
$u=-0.572881+0.536287I$ $a=0.31292+1.45222I$ $b=0.41533-1.42699I$	$-5.09306-0.58034I$	$-7.14557-2.08415I$
$u=-0.572881+0.536287I$ $a=0.212405+0.031411I$ $b=0.225077+0.738341I$	$-0.95548+2.24779I$	$-0.61631-5.06360I$
$u=-0.572881+0.536287I$ $a=-1.98001+0.45319I$ $b=1.42585+0.86861I$	$-5.09306+5.07591I$	$-7.14557-8.04304I$
$u=-0.572881-0.536287I$ $a=-0.178622+0.995404I$ $b=-0.391403+1.054420I$	$-5.09306-5.07591I$	$-7.14557+8.04304I$
$u=-0.572881-0.536287I$ $a=1.097050+0.676541I$ $b=-0.663433+0.206361I$	$-0.95548-2.24779I$	$-0.61631+5.06360I$
$u=-0.572881-0.536287I$ $a=-1.198410-0.589737I$ $b=-0.430728-0.376103I$	$-5.09306+0.58034I$	$-7.14557+2.08415I$
$u=-0.572881-0.536287I$ $a=0.31292-1.45222I$ $b=0.41533+1.42699I$	$-5.09306+0.58034I$	$-7.14557+2.08415I$
$u=-0.572881-0.536287I$ $a=0.212405-0.031411I$ $b=0.225077-0.738341I$	$-0.95548-2.24779I$	$-0.61631+5.06360I$
$u=-0.572881-0.536287I$ $a=-1.98001-0.45319I$ $b=1.42585-0.86861I$	$-5.09306-5.07591I$	$-7.14557+8.04304I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.290349+1.272230I$ $a=\ \ 1.001860+0.001395I$ $b=-1.018330+0.058723I$	$-0.03833+2.17262I$	$4.33084-3.24807I$
$u=-0.290349+1.272230I$ $a=\ \ 0.289202+0.789207I$ $b=-0.0716992-0.0384158I$	$-0.03833+2.17262I$	$4.33084-3.24807I$
$u=-0.290349+1.272230I$ $a=\ \ 1.178120-0.545316I$ $b=-0.654660-0.523893I$	$4.09925+5.00074I$	$10.86010-6.22751I$
$u=-0.290349+1.272230I$ $a=-1.48808-0.39798I$ $b=\ \ 1.20830+0.97641I$	$4.09925+5.00074I$	$10.86010-6.22751I$
$u=-0.290349+1.272230I$ $a=\ \ 1.53917+0.91664I$ $b=-1.18366-1.77329I$	$-0.03833+7.82886I$	$4.33084-9.20696I$
$u=-0.290349+1.272230I$ $a=-2.10966+0.48565I$ $b=\ \ 0.986642+0.701021I$	$-0.03833+7.82886I$	$4.33084-9.20696I$
$u=-0.290349-1.272230I$ $a=\ \ 1.001860-0.001395I$ $b=-1.018330-0.058723I$	$-0.03833-2.17262I$	$4.33084+3.24807I$
$u=-0.290349-1.272230I$ $a=\ \ 0.289202-0.789207I$ $b=-0.0716992+0.0384158I$	$-0.03833-2.17262I$	$4.33084+3.24807I$
$u=-0.290349-1.272230I$ $a=\ \ 1.178120+0.545316I$ $b=-0.654660+0.523893I$	$4.09925-5.00074I$	$10.86010+6.22751I$
$u=-0.290349-1.272230I$ $a=-1.48808+0.39798I$ $b=\ \ 1.20830-0.97641I$	$4.09925-5.00074I$	$10.86010+6.22751I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.290349-1.272230I$ $a=1.53917-0.91664I$ $b=-1.18366+1.77329I$	$-0.03833-7.82886I$	$4.33084+9.20696I$
$u=-0.290349-1.272230I$ $a=-2.10966-0.48565I$ $b=0.986642-0.701021I$	$-0.03833-7.82886I$	$4.33084+9.20696I$
$u=0.234018+0.605151I$ $a=-0.239136+0.416643I$ $b=0.439230+0.995032I$	$-1.33438+2.70441I$	$-0.448108+0.083327I$
$u=0.234018+0.605151I$ $a=0.06031+1.80790I$ $b=-0.74955-1.66176I$	$-5.47196-0.12371I$	$-6.97737+3.06277I$
$u=0.234018+0.605151I$ $a=0.68960-1.93675I$ $b=-0.069788-1.004720I$	$-5.47196+5.53253I$	$-6.97737-2.89612I$
$u=0.234018+0.605151I$ $a=2.48198-0.52970I$ $b=-0.807451+0.451445I$	$-1.33438+2.70441I$	$-0.448108+0.083327I$
$u=0.234018+0.605151I$ $a=-2.55575+0.53661I$ $b=-0.249729-0.382896I$	$-5.47196-0.12371I$	$-6.97737+3.06277I$
$u=0.234018+0.605151I$ $a=-3.40816-0.14493I$ $b=1.92508-0.31327I$	$-5.47196+5.53253I$	$-6.97737-2.89612I$
$u=0.234018-0.605151I$ $a=-0.239136-0.416643I$ $b=0.439230-0.995032I$	$-1.33438-2.70441I$	$-0.448108-0.083327I$
$u=0.234018-0.605151I$ $a=0.06031-1.80790I$ $b=-0.74955+1.66176I$	$-5.47196+0.12371I$	$-6.97737-3.06277I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.234018 - 0.605151I$ $a = 0.68960 + 1.93675I$ $b = -0.069788 + 1.004720I$	$-5.47196 - 5.53253I$	$-6.97737 + 2.89612I$
$u = 0.234018 - 0.605151I$ $a = 2.48198 + 0.52970I$ $b = -0.807451 - 0.451445I$	$-1.33438 - 2.70441I$	$-0.448108 - 0.083327I$
$u = 0.234018 - 0.605151I$ $a = -2.55575 - 0.53661I$ $b = -0.249729 + 0.382896I$	$-5.47196 + 0.12371I$	$-6.97737 - 3.06277I$
$u = 0.234018 - 0.605151I$ $a = -3.40816 + 0.14493I$ $b = 1.92508 + 0.31327I$	$-5.47196 - 5.53253I$	$-6.97737 + 2.89612I$
$u = -0.57044 + 1.34258I$ $a = -0.907349 - 0.181245I$ $b = 0.714414 + 0.937746I$	$1.22875 + 5.92443I$	$-0.15094 - 10.02355I$
$u = -0.57044 + 1.34258I$ $a = 0.292115 + 0.758984I$ $b = -0.042421 - 0.880536I$	$-2.90883 + 3.09630I$	$-6.68021 - 7.04410I$
$u = -0.57044 + 1.34258I$ $a = 1.231120 + 0.121507I$ $b = -0.84877 - 1.26334I$	$-2.90883 + 8.75255I$	$-6.6802 - 13.0030I$
$u = -0.57044 + 1.34258I$ $a = 1.305750 - 0.011564I$ $b = -0.905606 - 0.690569I$	$1.22875 + 5.92443I$	$-0.15094 - 10.02355I$
$u = -0.57044 + 1.34258I$ $a = -0.564946 - 0.141760I$ $b = 0.020758 + 0.404573I$	$-2.90883 + 3.09630I$	$-6.68021 - 7.04410I$
$u = -0.57044 + 1.34258I$ $a = -1.88445 - 0.29051I$ $b = 1.31490 + 1.16469I$	$-2.90883 + 8.75255I$	$-6.6802 - 13.0030I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.57044-1.34258I$ $a=-0.907349+0.181245I$ $b=\ \ 0.714414-0.937746I$	$1.22875-5.92443I$	$-0.15094+10.02355I$
$u=-0.57044-1.34258I$ $a=\ \ 0.292115-0.758984I$ $b=-0.042421+0.880536I$	$-2.90883-3.09630I$	$-6.68021+7.04410I$
$u=-0.57044-1.34258I$ $a=\ \ 1.231120-0.121507I$ $b=-0.84877+1.26334I$	$-2.90883-8.75255I$	$-6.6802+13.0030I$
$u=-0.57044-1.34258I$ $a=\ \ 1.305750+0.011564I$ $b=-0.905606+0.690569I$	$1.22875-5.92443I$	$-0.15094+10.02355I$
$u=-0.57044-1.34258I$ $a=-0.564946+0.141760I$ $b=\ \ 0.020758-0.404573I$	$-2.90883-3.09630I$	$-6.68021+7.04410I$
$u=-0.57044-1.34258I$ $a=-1.88445+0.29051I$ $b=\ \ 1.31490-1.16469I$	$-2.90883-8.75255I$	$-6.6802+13.0030I$

III. $I_3^u = \langle 66u^{17} - 107u^{16} + \cdots + 241b + 1451,\ -1781u^{17} + 8120u^{16} + \cdots + 1205a - 4294,\ u^{18} - 5u^{17} + \cdots - 16u + 5\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1.47801u^{17} - 6.73859u^{16} + \cdots + 0.624066u + 3.56349 \\ -0.273859u^{17} + 0.443983u^{16} + \cdots + 16.8091u - 6.02075 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.552697u^{17} - 2.04149u^{16} + \cdots - 9.77842u + 4.93278 \\ 0.651452u^{17} - 4.25311u^{16} + \cdots + 27.2116u - 7.39004 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.756017u^{17} - 2.47718u^{16} + \cdots - 13.1519u + 6.32697 \\ 0.730290u^{17} - 4.85062u^{16} + \cdots + 30.8423u - 9.27801 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.270539u^{17} + 1.00830u^{16} + \cdots + 9.03568u - 4.42656 \\ -0.199170u^{17} + 1.14108u^{16} + \cdots - 10.5934u + 2.34855 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.824896u^{17} - 3.76763u^{16} + \cdots + 12.7992u - 1.34357 \\ -0.190871u^{17} + 0.551867u^{16} + \cdots + 6.47303u - 4.16598 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.578423u^{17} + 2.66805u^{16} + \cdots - 11.2274u + 1.46224 \\ 0.356846u^{17} - 1.33610u^{16} + \cdots + 1.85477u + 1.87552 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.148548u^{17} + 0.746888u^{16} + \cdots - 16.3884u + 5.40996 \\ 0.273859u^{17} - 1.44398u^{16} + \cdots + 9.19087u - 0.979253 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.148548u^{17} + 0.746888u^{16} + \cdots - 16.3884u + 5.40996 \\ 0.273859u^{17} - 1.44398u^{16} + \cdots + 9.19087u - 0.979253 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{223}{241}u^{17} + \frac{1132}{241}u^{16} + \cdots + \frac{2795}{241}u - \frac{1357}{241}$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_8	$y^{18} + 8y^{17} + \cdots - 21y + 1$
c_2, c_5	$y^{18} + 4y^{17} + \cdots + 4y + 1$
c_3	$y^{18} - 5y^{17} + \cdots - 6y + 1$
c_4, c_{10}	$y^{18} + 15y^{17} + \cdots + 4y + 1$
c_6, c_9	$y^{18} + 13y^{17} + \cdots + 214y + 25$
c_7, c_{11}	$y^{18} - 8y^{17} + \cdots + 11y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.945623 + 0.063125I$ $a = -0.1061120 - 0.0121349I$ $b = -0.614760 - 1.047870I$	$-6.16858 + 2.75750I$	$-3.49652 - 2.03527I$
$u = \ 0.945623 - 0.063125I$ $a = -0.1061120 + 0.0121349I$ $b = -0.614760 + 1.047870I$	$-6.16858 - 2.75750I$	$-3.49652 + 2.03527I$
$u = -0.121403 + 0.920479I$ $a = -2.30763 + 0.11393I$ $b = \ 1.02835 - 1.06240I$	$-4.26101 + 6.96134I$	$-0.45344 - 3.31304I$
$u = -0.121403 - 0.920479I$ $a = -2.30763 - 0.11393I$ $b = \ 1.02835 + 1.06240I$	$-4.26101 - 6.96134I$	$-0.45344 + 3.31304I$
$u = \ 0.703933 + 0.909715I$ $a = -0.493633 + 0.370978I$ $b = -0.034790 - 0.741627I$	$-3.13660 - 2.04248I$	$-8.03181 + 1.04501I$
$u = \ 0.703933 - 0.909715I$ $a = -0.493633 - 0.370978I$ $b = -0.034790 + 0.741627I$	$-3.13660 + 2.04248I$	$-8.03181 - 1.04501I$
$u = \ 0.107214 + 0.769216I$ $a = \ 2.12565 + 0.27529I$ $b = -0.911622 + 1.079050I$	$-4.79164 - 1.12477I$	$-4.07222 + 0.30940I$
$u = \ 0.107214 - 0.769216I$ $a = \ 2.12565 - 0.27529I$ $b = -0.911622 - 1.079050I$	$-4.79164 + 1.12477I$	$-4.07222 - 0.30940I$
$u = -0.349295 + 0.666891I$ $a = \ 1.28555 - 0.78686I$ $b = -0.288199 + 0.696637I$	$-1.10919 + 4.12373I$	$-1.88941 - 5.48534I$
$u = -0.349295 - 0.666891I$ $a = \ 1.28555 + 0.78686I$ $b = -0.288199 - 0.696637I$	$-1.10919 - 4.12373I$	$-1.88941 + 5.48534I$

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.316716 + 1.263680I$ $a = -1.303310 + 0.140290I$ $b = 0.785901 - 0.891884I$	$2.98236 - 5.05603I$	$1.84351 + 6.46293I$
$u = 0.316716 - 1.263680I$ $a = -1.303310 - 0.140290I$ $b = 0.785901 + 0.891884I$	$2.98236 + 5.05603I$	$1.84351 - 6.46293I$
$u = -0.444613 + 1.319520I$ $a = -0.199786 - 0.562083I$ $b = 0.318141 + 0.281100I$	$-3.21225 - 5.29580I$	$0.74146 + 1.80585I$
$u = -0.444613 - 1.319520I$ $a = -0.199786 + 0.562083I$ $b = 0.318141 - 0.281100I$	$-3.21225 + 5.29580I$	$0.74146 - 1.80585I$
$u = 0.521622 + 1.303650I$ $a = 1.58799 - 0.17208I$ $b = -1.07771 + 1.20294I$	$-2.32494 - 8.08359I$	$0.75623 + 4.20031I$
$u = 0.521622 - 1.303650I$ $a = 1.58799 + 0.17208I$ $b = -1.07771 - 1.20294I$	$-2.32494 + 8.08359I$	$0.75623 - 4.20031I$
$u = 0.82020 + 1.23611I$ $a = -0.688713 - 0.233947I$ $b = 0.794690 - 0.338629I$	$0.63771 - 3.68071I$	$0.60220 + 3.30279I$
$u = 0.82020 - 1.23611I$ $a = -0.688713 + 0.233947I$ $b = 0.794690 + 0.338629I$	$0.63771 + 3.68071I$	$0.60220 - 3.30279I$

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_8	$(u^{18}+4u^{16}+\cdots+7u+1)(u^{32}+7u^{30}+\cdots+9u+7)$ $\cdot(u^{66}+u^{65}+\cdots+345266u+66193)$
c_2, c_5	$(u^{18}+2u^{16}+\cdots-4u+1)(u^{32}-3u^{30}+\cdots+2u+1)$ $\cdot(u^{66}-u^{65}+\cdots+30u+1)$
c_3	$(u^{11}+5u^{10}+12u^9+15u^8+8u^7-4u^6-8u^5-3u^4+3u^3+3u^2-1)^6$ $\cdot(u^{18}+7u^{17}+\cdots-3u^2+1)(u^{32}-24u^{31}+\cdots-32u+8)$
c_4	$((u^3+u^2+2u+1)^{22})(u^{18}-u^{17}+\cdots-6u+1)$ $\cdot(u^{32}-22u^{31}+\cdots-31744u+2048)$
c_6	$((u^{11}+3u^{10}+\cdots+2u+1)^6)(u^{18}-5u^{17}+\cdots-16u+5)$ $\cdot(u^{32}-16u^{31}+\cdots-928u+64)$
c_7, c_{11}	$(u^{18}-4u^{16}+\cdots-u+1)(u^{32}+2u^{31}+\cdots+u+1)$ $\cdot(u^{66}+3u^{65}+\cdots+2656u+691)$
c_9	$((u^{11}+3u^{10}+\cdots+2u+1)^6)(u^{18}+5u^{17}+\cdots+16u+5)$ $\cdot(u^{32}-16u^{31}+\cdots-928u+64)$
c_{10}	$((u^3+u^2+2u+1)^{22})(u^{18}+u^{17}+\cdots+6u+1)$ $\cdot(u^{32}-22u^{31}+\cdots-31744u+2048)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_8	$(y^{18}+8y^{17}+\cdots-21y+1)(y^{32}+14y^{31}+\cdots+255y+49)$ $\cdot(y^{66}+27y^{65}+\cdots+109594377816y+4381513249)$
c_2, c_5	$(y^{18}+4y^{17}+\cdots+4y+1)(y^{32}-6y^{31}+\cdots-4y+1)$ $\cdot(y^{66}+15y^{65}+\cdots-104y+1)$
c_3	$((y^{11}-y^{10}+\cdots+6y-1)^6)(y^{18}-5y^{17}+\cdots-6y+1)$ $\cdot(y^{32}-6y^{31}+\cdots-1952y+64)$
c_4, c_{10}	$((y^3+3y^2+2y-1)^{22})(y^{18}+15y^{17}+\cdots+4y+1)$ $\cdot(y^{32}+18y^{31}+\cdots-13631488y+4194304)$
c_6, c_9	$((y^{11}+7y^{10}+\cdots-6y-1)^6)(y^{18}+13y^{17}+\cdots+214y+25)$ $\cdot(y^{32}+20y^{31}+\cdots-26112y+4096)$
c_7, c_{11}	$(y^{18}-8y^{17}+\cdots+11y+1)(y^{32}-2y^{31}+\cdots+7y+1)$ $\cdot(y^{66}-25y^{65}+\cdots-19619480y+477481)$