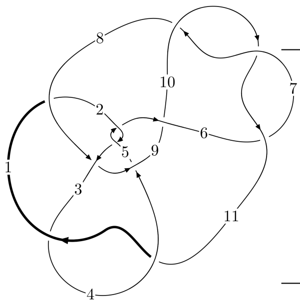
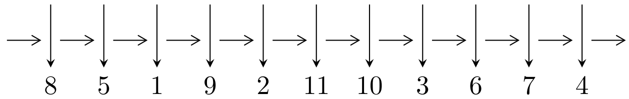
$11a_{292}$ ($K11a_{292}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 14579744602u^{24} + 15331471056u^{23} + \cdots + 3964777743843b - 332846474137, \\
& 362005963341u^{24} - 27656036296u^{23} + \cdots + 1585910975372a - 1558403855541, \\
& u^{25} + 11u^{23} + \cdots + 5u - 4\rangle \\
I_2^u = \langle & 8u^{20}a - 2u^{20} + \cdots - a - 2,\ -2u^{20}a + 3u^{20} + \cdots + a^2 + 10,\ u^{21} + u^{20} + \cdots - u - 1\rangle \\
I_3^u = \langle & b + 1,\ 2u^2 + 2a - 2u + 5,\ u^3 - u^2 + 2u - 1\rangle
\end{aligned}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 70 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. $I_1^u =$
$\langle 1.46\times10^{10}u^{24}+1.53\times10^{10}u^{23}+\cdots+3.96\times10^{11}b-3.33\times10^{11},\ 3.62\times10^{11}u^{24}-2.77\times10^{10}u^{23}+\cdots+1.59\times10^{12}a-1.56\times10^{12},\ u^{25}+11u^{23}+\cdots+5u-4\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_2 = \begin{pmatrix}-0.228264u^{24}+0.0174386u^{23}+\cdots-4.67501u+0.982655\\-0.0367732u^{24}-0.0386692u^{23}+\cdots-1.61229u+0.839509\end{pmatrix}$$
$$a_7 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_5 = \begin{pmatrix}0.244682u^{24}-0.0104806u^{23}+\cdots+4.92670u-0.639254\\0.0214093u^{24}+0.0107022u^{23}+\cdots+2.37619u-0.880534\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-0.454939u^{24}+0.0416564u^{23}+\cdots-8.69816u+2.21103\\-0.0416564u^{24}-0.0575212u^{23}+\cdots-4.48573u+1.81976\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}u\\u^3+u\end{pmatrix}$$
$$a_8 = \begin{pmatrix}u^2+1\\u^4+2u^2\end{pmatrix}$$
$$a_1 = \begin{pmatrix}-0.220134u^{24}+0.0214093u^{23}+\cdots-4.11288u+1.27552\\-0.0104806u^{24}-0.00911491u^{23}+\cdots-1.86266u+0.978727\end{pmatrix}$$
$$a_9 = \begin{pmatrix}u^3+2u\\u^3+u\end{pmatrix}$$
$$a_4 = \begin{pmatrix}0.209877u^{24}-0.0367732u^{23}+\cdots+4.36887u-0.562901\\0.0174386u^{24}+0.0197581u^{23}+\cdots+2.12397u-0.913055\end{pmatrix}$$
$$a_4 = \begin{pmatrix}0.209877u^{24}-0.0367732u^{23}+\cdots+4.36887u-0.562901\\0.0174386u^{24}+0.0197581u^{23}+\cdots+2.12397u-0.913055\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes
$= \frac{318615294651}{396477743843}u^{24}-\frac{34664114752}{396477743843}u^{23}+\cdots+\frac{10688164272079}{1585910975372}u-\frac{7965281676665}{396477743843}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$8(8u^{25} - 4u^{24} + \cdots + 2u + 1)$
c_2, c_3, c_5 c_{11}	$u^{25} + 3u^{24} + \cdots + 3u + 1$
c_6, c_7, c_{10}	$u^{25} + 11u^{23} + \cdots + 5u + 4$
c_8	$u^{25} + 3u^{24} + \cdots + 352u + 128$
c_9	$u^{25} - u^{23} + \cdots + 797u + 292$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$64(64y^{25} + 240y^{24} + \cdots + 16y - 1)$
c_2, c_3, c_5 c_{11}	$y^{25} + 11y^{24} + \cdots + 3y - 1$
c_6, c_7, c_{10}	$y^{25} + 22y^{24} + \cdots + 241y - 16$
c_8	$y^{25} + 7y^{24} + \cdots - 84992y - 16384$
c_9	$y^{25} - 2y^{24} + \cdots + 1188257y - 85264$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.548894+0.797398I$ $a=-0.101206-0.491260I$ $b=-0.474580-1.242550I$	$5.61589-7.41862I$	$-5.99307+4.17618I$
$u=-0.548894-0.797398I$ $a=-0.101206+0.491260I$ $b=-0.474580+1.242550I$	$5.61589+7.41862I$	$-5.99307-4.17618I$
$u=0.706370+0.548812I$ $a=0.798029-0.174639I$ $b=0.263483+0.886965I$	$0.86744-3.46984I$	$-11.3753+9.7737I$
$u=0.706370-0.548812I$ $a=0.798029+0.174639I$ $b=0.263483-0.886965I$	$0.86744+3.46984I$	$-11.3753-9.7737I$
$u=0.858910+0.133092I$ $a=-0.566243-0.452994I$ $b=-0.131692-0.750408I$	$-0.421269-1.124170I$	$-15.1711+4.4746I$
$u=0.858910-0.133092I$ $a=-0.566243+0.452994I$ $b=-0.131692+0.750408I$	$-0.421269+1.124170I$	$-15.1711-4.4746I$
$u=-0.809123+0.315012I$ $a=-1.88500+0.57325I$ $b=-0.546754+1.295430I$	$4.07653+12.13020I$	$-8.33349-8.34430I$
$u=-0.809123-0.315012I$ $a=-1.88500-0.57325I$ $b=-0.546754-1.295430I$	$4.07653-12.13020I$	$-8.33349+8.34430I$
$u=-0.156187+1.202150I$ $a=1.122910+0.745988I$ $b=0.946754-0.548140I$	$0.27538+2.19318I$	$-11.91071+0.36993I$
$u=-0.156187-1.202150I$ $a=1.122910-0.745988I$ $b=0.946754+0.548140I$	$0.27538-2.19318I$	$-11.91071-0.36993I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.223868 + 1.253510I$ $a = -0.470162 + 0.030904I$ $b = -0.238848 + 0.287288I$	$2.68775 - 2.30692I$	$-5.11682 + 1.56003I$
$u = 0.223868 - 1.253510I$ $a = -0.470162 - 0.030904I$ $b = -0.238848 - 0.287288I$	$2.68775 + 2.30692I$	$-5.11682 - 1.56003I$
$u = 0.471042 + 1.205750I$ $a = -0.864543 + 0.069126I$ $b = -0.306312 - 0.956199I$	$3.65181 - 5.92897I$	$-7.49144 + 10.01248I$
$u = 0.471042 - 1.205750I$ $a = -0.864543 - 0.069126I$ $b = -0.306312 + 0.956199I$	$3.65181 + 5.92897I$	$-7.49144 - 10.01248I$
$u = -0.223600 + 1.354960I$ $a = 0.469907 + 0.958847I$ $b = 1.330580 + 0.239812I$	$1.78338 + 3.43475I$	$-2.55385 - 7.61768I$
$u = -0.223600 - 1.354960I$ $a = 0.469907 - 0.958847I$ $b = 1.330580 - 0.239812I$	$1.78338 - 3.43475I$	$-2.55385 + 7.61768I$
$u = -0.583764 + 0.120670I$ $a = 2.27131 + 0.85488I$ $b = 1.134100 + 0.298870I$	$-2.92328 + 0.50544I$	$-12.3574 - 10.8616I$
$u = -0.583764 - 0.120670I$ $a = 2.27131 - 0.85488I$ $b = 1.134100 - 0.298870I$	$-2.92328 - 0.50544I$	$-12.3574 + 10.8616I$
$u = -0.32151 + 1.44044I$ $a = -1.66224 - 0.76899I$ $b = -0.57182 + 1.34966I$	$9.6840 + 16.2255I$	$-4.63027 - 8.78327I$
$u = -0.32151 - 1.44044I$ $a = -1.66224 + 0.76899I$ $b = -0.57182 - 1.34966I$	$9.6840 - 16.2255I$	$-4.63027 + 8.78327I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.29535 + 1.50905I$ $a = 0.856616 - 0.740944I$ $b = 0.284532 + 1.100380I$	$7.47014 - 7.28043I$	$-3.70614 + 9.00978I$
$u = 0.29535 - 1.50905I$ $a = 0.856616 + 0.740944I$ $b = 0.284532 - 1.100380I$	$7.47014 + 7.28043I$	$-3.70614 - 9.00978I$
$u = -0.05465 + 1.54501I$ $a = 0.003062 + 0.744056I$ $b = -0.323896 - 1.309710I$	$13.5945 - 5.6631I$	$-1.19159 + 4.67130I$
$u = -0.05465 - 1.54501I$ $a = 0.003062 - 0.744056I$ $b = -0.323896 + 1.309710I$	$13.5945 + 5.6631I$	$-1.19159 - 4.67130I$
$u = 0.284375$ $a = -0.694884$ $b = 0.268925$	-0.608310	-16.5880

II. $\boldsymbol{I_2^u =}$
$\boldsymbol{\langle 8u^{20}a-2u^{20}+\cdots-a-2,\ -2u^{20}a+3u^{20}+\cdots+a^2+10,\ u^{21}+u^{20}+\cdots-u-1\rangle}$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} a \\ -\frac{8}{9}u^{20}a + \frac{2}{9}u^{20} + \cdots + \frac{1}{9}a + \frac{2}{9} \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} \frac{2}{9}u^{20}a - \frac{14}{9}u^{20} + \cdots + \frac{2}{9}a - \frac{5}{9} \\ -\frac{4}{9}u^{20}a - \frac{8}{9}u^{20} + \cdots + \frac{5}{9}a + \frac{10}{9} \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u^{20} - 9u^{18} + \cdots - u^2 + 1 \\ -u^{20} - u^{19} + \cdots - u^2 + 1 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$
$$a_8 = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -\frac{5}{9}u^{20}a + \frac{8}{9}u^{20} + \cdots + \frac{4}{9}a - \frac{1}{9} \\ -\frac{11}{9}u^{20}a + \frac{5}{9}u^{20} + \cdots - \frac{2}{9}a - \frac{4}{9} \end{pmatrix}$$
$$a_9 = \begin{pmatrix} u^3 + 2u \\ u^3 + u \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -\frac{1}{9}u^{20}a - \frac{2}{9}u^{20} + \cdots + \frac{8}{9}a + \frac{7}{9} \\ 2u^{20} + 2u^{19} + \cdots + 2u + 2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -\frac{1}{9}u^{20}a - \frac{2}{9}u^{20} + \cdots + \frac{8}{9}a + \frac{7}{9} \\ 2u^{20} + 2u^{19} + \cdots + 2u + 2 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -4u^{19} - 4u^{18} - 36u^{17} - 32u^{16} - 132u^{15} - 100u^{14} - 244u^{13} - 140u^{12} - 216u^{11} - 52u^{10} - 40u^9 + 68u^8 + 56u^7 + 52u^6 - 12u^4 - 36u^3 - 12u^2 - 8u - 6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{42} - u^{41} + \cdots + 2496u + 1081$
c_2, c_3, c_5 c_{11}	$u^{42} - 7u^{41} + \cdots - 2u + 1$
c_6, c_7, c_{10}	$(u^{21} - u^{20} + \cdots - u + 1)^2$
c_8	$(u^{21} - u^{20} + \cdots + u - 1)^2$
c_9	$(u^{21} + u^{20} + \cdots - 3u + 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{42} + 19y^{41} + \cdots + 26506988y + 1168561$
c_2, c_3, c_5 c_{11}	$y^{42} + 27y^{41} + \cdots + 26y^2 + 1$
c_6, c_7, c_{10}	$(y^{21} + 19y^{20} + \cdots + 3y - 1)^2$
c_8	$(y^{21} + 7y^{20} + \cdots + 3y - 1)^2$
c_9	$(y^{21} - y^{20} + \cdots + 3y - 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.199184 + 0.953331I$ $a = -0.631854 - 0.459630I$ $b = -0.518967 + 0.275770I$	$1.91999 - 2.68588I$	$-9.85070 + 3.67518I$
$u = 0.199184 + 0.953331I$ $a = 0.378897 + 0.152272I$ $b = 0.359361 + 0.936794I$	$1.91999 - 2.68588I$	$-9.85070 + 3.67518I$
$u = 0.199184 - 0.953331I$ $a = -0.631854 + 0.459630I$ $b = -0.518967 - 0.275770I$	$1.91999 + 2.68588I$	$-9.85070 - 3.67518I$
$u = 0.199184 - 0.953331I$ $a = 0.378897 - 0.152272I$ $b = 0.359361 - 0.936794I$	$1.91999 + 2.68588I$	$-9.85070 - 3.67518I$
$u = -0.268883 + 0.739769I$ $a = -0.921198 - 0.860900I$ $b = -0.764352 + 0.086691I$	$2.12997 - 2.73152I$	$-8.80842 + 2.00184I$
$u = -0.268883 + 0.739769I$ $a = -0.108391 + 0.403964I$ $b = 0.423673 + 1.154260I$	$2.12997 - 2.73152I$	$-8.80842 + 2.00184I$
$u = -0.268883 - 0.739769I$ $a = -0.921198 + 0.860900I$ $b = -0.764352 - 0.086691I$	$2.12997 + 2.73152I$	$-8.80842 - 2.00184I$
$u = -0.268883 - 0.739769I$ $a = -0.108391 - 0.403964I$ $b = 0.423673 - 1.154260I$	$2.12997 + 2.73152I$	$-8.80842 - 2.00184I$
$u = -0.721828 + 0.253446I$ $a = -1.72355 - 0.58410I$ $b = -1.029770 - 0.113619I$	$0.38553 + 6.51836I$	$-11.49661 - 6.69162I$
$u = -0.721828 + 0.253446I$ $a = 2.02082 - 0.78488I$ $b = 0.580475 - 1.281080I$	$0.38553 + 6.51836I$	$-11.49661 - 6.69162I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.721828 - 0.253446I$ $a = -1.72355 + 0.58410I$ $b = -1.029770 + 0.113619I$	$0.38553 - 6.51836I$	$-11.49661 + 6.69162I$
$u = -0.721828 - 0.253446I$ $a = 2.02082 + 0.78488I$ $b = 0.580475 + 1.281080I$	$0.38553 - 6.51836I$	$-11.49661 + 6.69162I$
$u = 0.708881 + 0.196468I$ $a = -1.228480 - 0.496280I$ $b = -0.135993 - 0.853092I$	$-0.369814 - 0.901098I$	$-13.44354 + 1.25880I$
$u = 0.708881 + 0.196468I$ $a = 0.072151 + 0.168216I$ $b = 0.193105 - 0.268938I$	$-0.369814 - 0.901098I$	$-13.44354 + 1.25880I$
$u = 0.708881 - 0.196468I$ $a = -1.228480 + 0.496280I$ $b = -0.135993 + 0.853092I$	$-0.369814 + 0.901098I$	$-13.44354 - 1.25880I$
$u = 0.708881 - 0.196468I$ $a = 0.072151 - 0.168216I$ $b = 0.193105 + 0.268938I$	$-0.369814 + 0.901098I$	$-13.44354 - 1.25880I$
$u = 0.161237 + 1.327480I$ $a = 2.14675 - 0.60357I$ $b = 0.215364 - 0.842067I$	$6.68759 - 2.26276I$	$-8.12423 + 3.11409I$
$u = 0.161237 + 1.327480I$ $a = 0.45038 - 2.86282I$ $b = 0.077855 + 1.154110I$	$6.68759 - 2.26276I$	$-8.12423 + 3.11409I$
$u = 0.161237 - 1.327480I$ $a = 2.14675 + 0.60357I$ $b = 0.215364 + 0.842067I$	$6.68759 + 2.26276I$	$-8.12423 - 3.11409I$
$u = 0.161237 - 1.327480I$ $a = 0.45038 + 2.86282I$ $b = 0.077855 - 1.154110I$	$6.68759 + 2.26276I$	$-8.12423 - 3.11409I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.520195 + 0.340511I$ $a = -0.049542 - 1.209510I$ $b = -0.354858 - 1.344690I$	$5.31141 + 1.59690I$	$-4.86726 - 4.73829I$
$u = -0.520195 + 0.340511I$ $a = -2.65329 + 0.61691I$ $b = -0.538046 + 1.172550I$	$5.31141 + 1.59690I$	$-4.86726 - 4.73829I$
$u = -0.520195 - 0.340511I$ $a = -0.049542 + 1.209510I$ $b = -0.354858 + 1.344690I$	$5.31141 - 1.59690I$	$-4.86726 + 4.73829I$
$u = -0.520195 - 0.340511I$ $a = -2.65329 - 0.61691I$ $b = -0.538046 - 1.172550I$	$5.31141 - 1.59690I$	$-4.86726 + 4.73829I$
$u = 0.280467 + 1.374360I$ $a = 0.312181 + 0.269648I$ $b = 0.406166 - 0.029756I$	$4.61079 - 4.48385I$	$-8.56586 + 2.47352I$
$u = 0.280467 + 1.374360I$ $a = -1.52575 + 0.72271I$ $b = -0.211636 - 1.044900I$	$4.61079 - 4.48385I$	$-8.56586 + 2.47352I$
$u = 0.280467 - 1.374360I$ $a = 0.312181 - 0.269648I$ $b = 0.406166 + 0.029756I$	$4.61079 + 4.48385I$	$-8.56586 - 2.47352I$
$u = 0.280467 - 1.374360I$ $a = -1.52575 - 0.72271I$ $b = -0.211636 + 1.044900I$	$4.61079 + 4.48385I$	$-8.56586 - 2.47352I$
$u = -0.085311 + 1.403890I$ $a = -0.476783 - 0.880832I$ $b = 0.23480 + 1.42238I$	$8.43398 - 1.80763I$	$-3.74093 + 2.73625I$
$u = -0.085311 + 1.403890I$ $a = -0.310639 - 0.651382I$ $b = -0.881295 - 0.383290I$	$8.43398 - 1.80763I$	$-3.74093 + 2.73625I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.085311-1.403890I$ $a=-0.476783+0.880832I$ $b=\ \ 0.23480-1.42238I$	$8.43398+1.80763I$	$-3.74093-2.73625I$
$u=-0.085311-1.403890I$ $a=-0.310639+0.651382I$ $b=-0.881295+0.383290I$	$8.43398+1.80763I$	$-3.74093-2.73625I$
$u=-0.20569+1.41170I$ $a=\ \ 0.479429+0.350972I$ $b=-0.41262-1.50197I$	$10.87740+4.29720I$	$-1.24857-3.93304I$
$u=-0.20569+1.41170I$ $a=-1.63387-0.79459I$ $b=-0.70246+1.26246I$	$10.87740+4.29720I$	$-1.24857-3.93304I$
$u=-0.20569-1.41170I$ $a=\ \ 0.479429-0.350972I$ $b=-0.41262+1.50197I$	$10.87740-4.29720I$	$-1.24857+3.93304I$
$u=-0.20569-1.41170I$ $a=-1.63387+0.79459I$ $b=-0.70246-1.26246I$	$10.87740-4.29720I$	$-1.24857+3.93304I$
$u=-0.28719+1.40273I$ $a=-0.607054-0.791979I$ $b=-1.149010-0.072988I$	$5.66073+10.18330I$	$-6.74618-7.21296I$
$u=-0.28719+1.40273I$ $a=\ \ 1.67005+0.78565I$ $b=\ \ 0.61911-1.37353I$	$5.66073+10.18330I$	$-6.74618-7.21296I$
$u=-0.28719-1.40273I$ $a=-0.607054+0.791979I$ $b=-1.149010+0.072988I$	$5.66073-10.18330I$	$-6.74618+7.21296I$
$u=-0.28719-1.40273I$ $a=\ \ 1.67005-0.78565I$ $b=\ \ 0.61911+1.37353I$	$5.66073-10.18330I$	$-6.74618+7.21296I$

	Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=$	0.478663		
$a=$	$5.33975+3.09458I$	2.46606	-16.2150
$b=$	$0.089091-1.011840I$		
$u=$	0.478663		
$a=$	$5.33975-3.09458I$	2.46606	-16.2150
$b=$	$0.089091+1.011840I$		

III. $\boldsymbol{I_3^u = \langle b+1,\ 2u^2+2a-2u+5,\ u^3-u^2+2u-1\rangle}$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -u^2+u-\frac{5}{2} \\ -1 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -u^2+u-\frac{3}{2} \\ -1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -2u^2+2u-4 \\ -2 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} u \\ u^2-u+1 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} u^2+1 \\ u^2-u+1 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -u^2+u-2 \\ \frac{1}{2}u-1 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} u^2+1 \\ u^2-u+1 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -u^2+u-2 \\ -\frac{1}{2}u-1 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -u^2+u-2 \\ -\frac{1}{2}u-1 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{1}{4}u - 10$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$8(8u^3 - 4u^2 + 1)$
c_2, c_{11}	$(u - 1)^3$
c_3, c_5	$(u + 1)^3$
c_4	$8(8u^3 + 4u^2 - 1)$
c_6, c_7	$u^3 - u^2 + 2u - 1$
c_8	u^3
c_9	$u^3 - u^2 + 1$
c_{10}	$u^3 + u^2 + 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$64(64y^3 - 16y^2 + 8y - 1)$
c_2, c_3, c_5 c_{11}	$(y-1)^3$
c_6, c_7, c_{10}	$y^3 + 3y^2 + 2y - 1$
c_8	y^3
c_9	$y^3 - y^2 + 2y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.215080 + 1.307140I$ $a = -0.622561 + 0.744862I$ $b = -1.00000$	$1.37919 - 2.82812I$	$-9.94623 + 0.32679I$
$u = 0.215080 - 1.307140I$ $a = -0.622561 - 0.744862I$ $b = -1.00000$	$1.37919 + 2.82812I$	$-9.94623 - 0.32679I$
$u = 0.569840$ $a = -2.25488$ $b = -1.00000$	-2.75839	-9.85750

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$64(8u^3-4u^2+1)(8u^{25}-4u^{24}+\cdots+2u+1)$ $\cdot\,(u^{42}-u^{41}+\cdots+2496u+1081)$
c_2, c_{11}	$((u-1)^3)(u^{25}+3u^{24}+\cdots+3u+1)(u^{42}-7u^{41}+\cdots-2u+1)$
c_3, c_5	$((u+1)^3)(u^{25}+3u^{24}+\cdots+3u+1)(u^{42}-7u^{41}+\cdots-2u+1)$
c_4	$64(8u^3+4u^2-1)(8u^{25}-4u^{24}+\cdots+2u+1)$ $\cdot\,(u^{42}-u^{41}+\cdots+2496u+1081)$
c_6, c_7	$(u^3-u^2+2u-1)(u^{21}-u^{20}+\cdots-u+1)^2(u^{25}+11u^{23}+\cdots+5u+4)$
c_8	$u^3(u^{21}-u^{20}+\cdots+u-1)^2(u^{25}+3u^{24}+\cdots+352u+128)$
c_9	$(u^3-u^2+1)(u^{21}+u^{20}+\cdots-3u+1)^2(u^{25}-u^{23}+\cdots+797u+292)$
c_{10}	$(u^3+u^2+2u+1)(u^{21}-u^{20}+\cdots-u+1)^2(u^{25}+11u^{23}+\cdots+5u+4)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$4096(64y^3 - 16y^2 + 8y - 1)(64y^{25} + 240y^{24} + \cdots + 16y - 1)$ $\cdot (y^{42} + 19y^{41} + \cdots + 26506988y + 1168561)$
c_2, c_3, c_5 c_{11}	$((y-1)^3)(y^{25} + 11y^{24} + \cdots + 3y - 1)(y^{42} + 27y^{41} + \cdots + 26y^2 + 1)$
c_6, c_7, c_{10}	$(y^3 + 3y^2 + 2y - 1)(y^{21} + 19y^{20} + \cdots + 3y - 1)^2$ $\cdot (y^{25} + 22y^{24} + \cdots + 241y - 16)$
c_8	$y^3(y^{21} + 7y^{20} + \cdots + 3y - 1)^2(y^{25} + 7y^{24} + \cdots - 84992y - 16384)$
c_9	$(y^3 - y^2 + 2y - 1)(y^{21} - y^{20} + \cdots + 3y - 1)^2$ $\cdot (y^{25} - 2y^{24} + \cdots + 1188257y - 85264)$