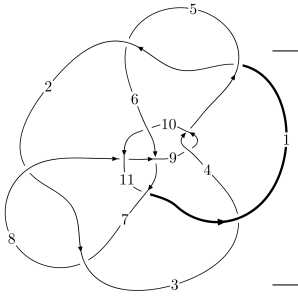
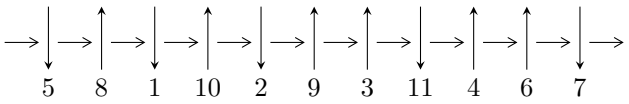
$11a_{274}$ $(K11a_{274})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & 3.70774 \times 10^{408} u^{106} + 8.16968 \times 10^{408} u^{105} + \cdots + 1.93043 \times 10^{406} b - 5.29637 \times 10^{411}, \\ & - 1.82573 \times 10^{412} u^{106} - 4.01506 \times 10^{412} u^{105} + \cdots + 4.39752 \times 10^{409} a + 2.56897 \times 10^{415}, \\ & u^{107} + 3u^{106} + \cdots - 10305u - 1139 \rangle \\ I_2^u = \langle & 244966793u^{24} - 694692620u^{23} + \cdots + 130021567b - 164391945, \\ & - 9288763323u^{24} + 21892602582u^{23} + \cdots + 130021567a + 11899834301, \\ & u^{25} - 2u^{24} + \cdots + 2u - 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 132 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. $\boldsymbol{I_1^u = \langle 3.71 \times 10^{408} u^{106} + 8.17 \times 10^{408} u^{105} + \cdots + 1.93 \times 10^{406} b - 5.30 \times 10^{411},\ -1.83 \times 10^{412} u^{106} - 4.02 \times 10^{412} u^{105} + \cdots + 4.40 \times 10^{409} a + 2.57 \times 10^{415},\ u^{107} + 3u^{106} + \cdots - 10305u - 1139 \rangle}$

(i) Arc colorings

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

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

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

$$a_{10} = \begin{pmatrix} 415.172u^{106} + 913.027u^{105} + \cdots - 4.57425 \times 10^6 u - 584186. \\ -192.068u^{106} - 423.205u^{105} + \cdots + 2.13856 \times 10^6 u + 274362. \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -41.0477u^{106} - 94.0550u^{105} + \cdots + 517727.u + 68881.1 \\ -477.753u^{106} - 1055.09u^{105} + \cdots + 5.34498 \times 10^6 u + 686198. \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -427.110u^{106} - 949.021u^{105} + \cdots + 4.83420 \times 10^6 u + 621333. \\ 453.142u^{106} + 1002.58u^{105} + \cdots - 5.09478 \times 10^6 u - 654884. \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 110.931u^{106} + 246.015u^{105} + \cdots - 1.26496 \times 10^6 u - 163618. \\ 991.184u^{106} + 2197.61u^{105} + \cdots - 1.11939 \times 10^7 u - 1.43983 \times 10^6 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 95.8929u^{106} + 194.195u^{105} + \cdots - 843416.u - 101512. \\ 572.889u^{106} + 1274.47u^{105} + \cdots - 6.52524 \times 10^6 u - 840913. \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -90.0069u^{106} - 202.051u^{105} + \cdots + 1.05741 \times 10^6 u + 137578. \\ -743.527u^{106} - 1660.72u^{105} + \cdots + 8.55566 \times 10^6 u + 1.10499 \times 10^6 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 568.863u^{106} + 1271.75u^{105} + \cdots - 6.57032 \times 10^6 u - 849767. \\ 1649.37u^{106} + 3705.88u^{105} + \cdots - 1.92517 \times 10^7 u - 2.49360 \times 10^6 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 568.863u^{106} + 1271.75u^{105} + \cdots - 6.57032 \times 10^6 u - 849767. \\ 1649.37u^{106} + 3705.88u^{105} + \cdots - 1.92517 \times 10^7 u - 2.49360 \times 10^6 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes

$= -912.136u^{106} - 2056.39u^{105} + \cdots + 1.07260 \times 10^7 u + 1.39093 \times 10^6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{107} + 3u^{106} + \cdots - 10305u - 1139$
c_2, c_7	$u^{107} + u^{106} + \cdots - 73u + 151$
c_3	$u^{107} - 6u^{106} + \cdots - 6634767u + 1340716$
c_4, c_9	$u^{107} + 2u^{106} + \cdots + 282u + 193$
c_6	$u^{107} + 16u^{106} + \cdots - 24u - 4$
c_8	$u^{107} - 8u^{106} + \cdots + 29u - 2$
c_{10}	$u^{107} - 2u^{106} + \cdots - 10504u + 844$
c_{11}	$u^{107} + 2u^{106} + \cdots - 26229u - 6833$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{107} - 55y^{106} + \cdots + 22754441y - 1297321$
c_2, c_7	$y^{107} + 75y^{106} + \cdots - 624341y - 22801$
c_3	$y^{107} - 24y^{106} + \cdots + 2724074633153y - 1797519392656$
c_4, c_9	$y^{107} - 58y^{106} + \cdots + 979290y - 37249$
c_6	$y^{107} - 6y^{106} + \cdots + 664y - 16$
c_8	$y^{107} - 16y^{106} + \cdots - 35y - 4$
c_{10}	$y^{107} - 4y^{106} + \cdots + 49093376y - 712336$
c_{11}	$y^{107} - 16y^{106} + \cdots + 957467627y - 46689889$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.986400 + 0.232370I$ $a = 0.94892 + 1.81516I$ $b = 0.26348 + 1.64192I$	$-7.68063 - 0.83209I$	0
$u = 0.986400 - 0.232370I$ $a = 0.94892 - 1.81516I$ $b = 0.26348 - 1.64192I$	$-7.68063 + 0.83209I$	0
$u = 0.942762 + 0.377969I$ $a = 0.75110 + 1.67803I$ $b = -0.961631 + 0.436996I$	$-1.71347 - 4.27371I$	0
$u = 0.942762 - 0.377969I$ $a = 0.75110 - 1.67803I$ $b = -0.961631 - 0.436996I$	$-1.71347 + 4.27371I$	0
$u = -0.958354 + 0.075778I$ $a = -0.10373 - 1.63196I$ $b = 1.149760 - 0.565303I$	$-3.40971 + 0.41855I$	0
$u = -0.958354 - 0.075778I$ $a = -0.10373 + 1.63196I$ $b = 1.149760 + 0.565303I$	$-3.40971 - 0.41855I$	0
$u = -0.779316 + 0.696451I$ $a = -0.504398 + 0.453268I$ $b = -0.971305 + 0.384066I$	$0.10272 + 2.36255I$	0
$u = -0.779316 - 0.696451I$ $a = -0.504398 - 0.453268I$ $b = -0.971305 - 0.384066I$	$0.10272 - 2.36255I$	0
$u = 0.177444 + 1.042760I$ $a = 0.1006440 - 0.0606927I$ $b = -1.185950 - 0.430093I$	$3.78600 + 6.43458I$	0
$u = 0.177444 - 1.042760I$ $a = 0.1006440 + 0.0606927I$ $b = -1.185950 + 0.430093I$	$3.78600 - 6.43458I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.895161+0.290884I$ $a=\ \ 0.505776+0.140299I$ $b=\ \ 1.68447-0.12670I$	$0.58435+6.31456I$	0
$u=-0.895161-0.290884I$ $a=\ \ 0.505776-0.140299I$ $b=\ \ 1.68447+0.12670I$	$0.58435-6.31456I$	0
$u=-1.015630+0.422544I$ $a=-0.608996+1.091860I$ $b=-0.298045+0.748953I$	$-1.73579+1.74529I$	0
$u=-1.015630-0.422544I$ $a=-0.608996-1.091860I$ $b=-0.298045-0.748953I$	$-1.73579-1.74529I$	0
$u=\ \ 0.504244+0.740958I$ $a=-0.0333710+0.0042260I$ $b=\ \ 1.121870+0.369553I$	$2.26806+1.29518I$	0
$u=\ \ 0.504244-0.740958I$ $a=-0.0333710-0.0042260I$ $b=\ \ 1.121870-0.369553I$	$2.26806-1.29518I$	0
$u=\ \ 1.026430+0.445067I$ $a=\ \ 0.50031-1.38036I$ $b=\ \ 1.221760-0.462110I$	$3.45857-2.35544I$	0
$u=\ \ 1.026430-0.445067I$ $a=\ \ 0.50031+1.38036I$ $b=\ \ 1.221760+0.462110I$	$3.45857+2.35544I$	0
$u=-0.013670+0.872769I$ $a=-1.057650-0.304944I$ $b=\ \ 0.199244-0.708064I$	$-2.93156+7.07012I$	0
$u=-0.013670-0.872769I$ $a=-1.057650+0.304944I$ $b=\ \ 0.199244+0.708064I$	$-2.93156-7.07012I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.038590 + 0.476453I$ $a = -0.22479 + 2.27046I$ $b = -1.228310 + 0.377670I$	$0.79397 - 8.09835I$	0
$u = 1.038590 - 0.476453I$ $a = -0.22479 - 2.27046I$ $b = -1.228310 - 0.377670I$	$0.79397 + 8.09835I$	0
$u = 0.992427 + 0.582979I$ $a = 0.28613 + 1.52727I$ $b = -0.804721 + 0.144032I$	$-0.60216 - 4.42014I$	0
$u = 0.992427 - 0.582979I$ $a = 0.28613 - 1.52727I$ $b = -0.804721 - 0.144032I$	$-0.60216 + 4.42014I$	0
$u = -0.528391 + 0.662505I$ $a = -0.525822 + 0.658236I$ $b = -0.258034 + 0.406970I$	$-0.57780 + 2.21426I$	0
$u = -0.528391 - 0.662505I$ $a = -0.525822 - 0.658236I$ $b = -0.258034 - 0.406970I$	$-0.57780 - 2.21426I$	0
$u = -0.758270 + 0.377359I$ $a = -0.97768 - 1.94616I$ $b = -1.200130 - 0.362063I$	$0.87955 - 3.38375I$	0
$u = -0.758270 - 0.377359I$ $a = -0.97768 + 1.94616I$ $b = -1.200130 + 0.362063I$	$0.87955 + 3.38375I$	0
$u = 0.317941 + 0.777701I$ $a = 0.113685 + 0.456499I$ $b = -1.271250 - 0.022410I$	$5.70627 - 2.04309I$	0
$u = 0.317941 - 0.777701I$ $a = 0.113685 - 0.456499I$ $b = -1.271250 + 0.022410I$	$5.70627 + 2.04309I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.141690+0.244876I$ $a=\ \ 1.11712+1.68774I$ $b=\ \ 1.074340+0.337271I$	$1.05453+4.32890I$	0
$u=-1.141690-0.244876I$ $a=\ \ 1.11712-1.68774I$ $b=\ \ 1.074340-0.337271I$	$1.05453-4.32890I$	0
$u=\ \ 1.172160+0.081485I$ $a=-0.09877-1.50658I$ $b=-0.366081-1.317570I$	$-8.46915+0.58647I$	0
$u=\ \ 1.172160-0.081485I$ $a=-0.09877+1.50658I$ $b=-0.366081+1.317570I$	$-8.46915-0.58647I$	0
$u=-1.125510+0.369873I$ $a=\ \ 0.49032-1.38272I$ $b=\ \ 0.390445-1.233280I$	$-2.50091+5.55154I$	0
$u=-1.125510-0.369873I$ $a=\ \ 0.49032+1.38272I$ $b=\ \ 0.390445+1.233280I$	$-2.50091-5.55154I$	0
$u=\ \ 0.967874+0.696932I$ $a=\ \ 0.13939+1.74328I$ $b=-1.066700+0.627717I$	$0.84643-6.63458I$	0
$u=\ \ 0.967874-0.696932I$ $a=\ \ 0.13939-1.74328I$ $b=-1.066700-0.627717I$	$0.84643+6.63458I$	0
$u=\ \ 0.583611+0.547652I$ $a=-0.811130+0.011218I$ $b=\ \ 1.388120+0.262275I$	$2.21393+3.95320I$	0
$u=\ \ 0.583611-0.547652I$ $a=-0.811130-0.011218I$ $b=\ \ 1.388120-0.262275I$	$2.21393-3.95320I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.795751+0.026610I$ $a=-1.46071+0.31634I$ $b=-0.570264+0.577089I$	$-3.11864-0.19481I$	0
$u=-0.795751-0.026610I$ $a=-1.46071-0.31634I$ $b=-0.570264-0.577089I$	$-3.11864+0.19481I$	0
$u=0.777664+0.122407I$ $a=-0.65432-2.51164I$ $b=0.648800-0.175263I$	$-0.59738+1.82584I$	0
$u=0.777664-0.122407I$ $a=-0.65432+2.51164I$ $b=0.648800+0.175263I$	$-0.59738-1.82584I$	0
$u=-1.215000+0.037952I$ $a=-0.818057+0.597206I$ $b=-0.458096+0.474076I$	$-3.11142+0.38976I$	0
$u=-1.215000-0.037952I$ $a=-0.818057-0.597206I$ $b=-0.458096-0.474076I$	$-3.11142-0.38976I$	0
$u=-1.001390+0.697728I$ $a=-0.743289+1.106810I$ $b=0.700521+0.787341I$	$-4.48306+5.28560I$	0
$u=-1.001390-0.697728I$ $a=-0.743289-1.106810I$ $b=0.700521-0.787341I$	$-4.48306-5.28560I$	0
$u=-0.541425+0.553774I$ $a=-0.384506-0.148529I$ $b=-0.356617+0.793713I$	$-3.48677-0.29528I$	0
$u=-0.541425-0.553774I$ $a=-0.384506+0.148529I$ $b=-0.356617-0.793713I$	$-3.48677+0.29528I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.760332+0.012943I$ $a=\ \ 0.855839-0.321413I$ $b=-1.396060+0.132482I$	$3.02312-3.08803I$	0
$u=-0.760332-0.012943I$ $a=\ \ 0.855839+0.321413I$ $b=-1.396060-0.132482I$	$3.02312+3.08803I$	0
$u=\ \ 0.670518+0.345863I$ $a=\ \ 1.23360+1.94436I$ $b=-0.972382+0.540863I$	$-1.90792-4.34721I$	0
$u=\ \ 0.670518-0.345863I$ $a=\ \ 1.23360-1.94436I$ $b=-0.972382-0.540863I$	$-1.90792+4.34721I$	0
$u=-1.138980+0.512959I$ $a=-0.05806+1.65313I$ $b=\ \ 1.41965+0.74374I$	$-3.66538+8.73172I$	0
$u=-1.138980-0.512959I$ $a=-0.05806-1.65313I$ $b=\ \ 1.41965-0.74374I$	$-3.66538-8.73172I$	0
$u=\ \ 0.491471+1.150150I$ $a=-0.312123+0.353998I$ $b=\ \ 1.075750+0.300107I$	$2.80517+0.25289I$	0
$u=\ \ 0.491471-1.150150I$ $a=-0.312123-0.353998I$ $b=\ \ 1.075750-0.300107I$	$2.80517-0.25289I$	0
$u=\ \ 1.180050+0.415213I$ $a=\ \ 0.506233+0.429519I$ $b=\ \ 0.749302+0.843791I$	$-4.38972+0.65205I$	0
$u=\ \ 1.180050-0.415213I$ $a=\ \ 0.506233-0.429519I$ $b=\ \ 0.749302-0.843791I$	$-4.38972-0.65205I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.216470+0.294723I$ $a=-0.71129+1.56282I$ $b=\ \ 1.095460+0.361300I$	$-5.13584+7.74504I$	0
$u=-1.216470-0.294723I$ $a=-0.71129-1.56282I$ $b=\ \ 1.095460-0.361300I$	$-5.13584-7.74504I$	0
$u=-0.597176+0.450609I$ $a=-0.18481+1.97419I$ $b=\ \ 0.719013+0.729095I$	$0.69488+2.31741I$	0
$u=-0.597176-0.450609I$ $a=-0.18481-1.97419I$ $b=\ \ 0.719013-0.729095I$	$0.69488-2.31741I$	0
$u=\ \ 0.747034$ $a=-0.985560$ $b=-1.81420$	6.04974	0
$u=\ \ 0.783338+1.031040I$ $a=-0.476712-0.175098I$ $b=\ \ 1.054390-0.258775I$	$0.222061-0.979752I$	0
$u=\ \ 0.783338-1.031040I$ $a=-0.476712+0.175098I$ $b=\ \ 1.054390+0.258775I$	$0.222061+0.979752I$	0
$u=\ \ 1.129370+0.667915I$ $a=\ \ 0.04446+1.66659I$ $b=-1.138630+0.569880I$	$0.71143-6.72557I$	0
$u=\ \ 1.129370-0.667915I$ $a=\ \ 0.04446-1.66659I$ $b=-1.138630-0.569880I$	$0.71143+6.72557I$	0
$u=-0.306453+1.281190I$ $a=-0.179496-0.169731I$ $b=\ \ 1.160100-0.518560I$	$-0.15826-11.75880I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.306453-1.281190I$ $a=-0.179496+0.169731I$ $b=\ \ 1.160100+0.518560I$	$-0.15826+11.75880I$	0
$u=-0.256265+0.616203I$ $a=\ \ 0.659506-0.891867I$ $b=-1.174010+0.469012I$	$-1.10598-4.23301I$	0
$u=-0.256265-0.616203I$ $a=\ \ 0.659506+0.891867I$ $b=-1.174010-0.469012I$	$-1.10598+4.23301I$	0
$u=\ \ 1.249560+0.496859I$ $a=-0.470769-1.167780I$ $b=-0.303354-1.221520I$	$-6.63108-11.96940I$	0
$u=\ \ 1.249560-0.496859I$ $a=-0.470769+1.167780I$ $b=-0.303354+1.221520I$	$-6.63108+11.96940I$	0
$u=\ \ 1.309780+0.330332I$ $a=\ \ 0.274873-0.790752I$ $b=\ \ 0.089576-0.732286I$	$-6.27513-5.21106I$	0
$u=\ \ 1.309780-0.330332I$ $a=\ \ 0.274873+0.790752I$ $b=\ \ 0.089576+0.732286I$	$-6.27513+5.21106I$	0
$u=\ \ 1.339110+0.384317I$ $a=\ \ 0.218932+1.021670I$ $b=\ \ 0.428507+0.715696I$	$-3.42958-4.03082I$	0
$u=\ \ 1.339110-0.384317I$ $a=\ \ 0.218932-1.021670I$ $b=\ \ 0.428507-0.715696I$	$-3.42958+4.03082I$	0
$u=-0.596030+0.015402I$ $a=-1.40783+4.40453I$ $b=-0.624969-0.029942I$	$-2.33761+6.09907I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.596030-0.015402I$ $a=-1.40783-4.40453I$ $b=-0.624969+0.029942I$	$-2.33761-6.09907I$	0
$u=1.278180+0.597403I$ $a=0.16469-1.50384I$ $b=1.27288-0.69832I$	$0.38916-12.29960I$	0
$u=1.278180-0.597403I$ $a=0.16469+1.50384I$ $b=1.27288+0.69832I$	$0.38916+12.29960I$	0
$u=-1.34893+0.42751I$ $a=-0.341692-1.233990I$ $b=-1.26189-0.70892I$	$-5.54355+6.30492I$	0
$u=-1.34893-0.42751I$ $a=-0.341692+1.233990I$ $b=-1.26189+0.70892I$	$-5.54355-6.30492I$	0
$u=-1.36142+0.44294I$ $a=0.344902-0.967409I$ $b=-0.886579-0.536312I$	$-6.97914-1.89469I$	0
$u=-1.36142-0.44294I$ $a=0.344902+0.967409I$ $b=-0.886579+0.536312I$	$-6.97914+1.89469I$	0
$u=1.46671+0.18400I$ $a=0.997962+0.379768I$ $b=0.537001+0.211295I$	$-7.13217-4.86452I$	0
$u=1.46671-0.18400I$ $a=0.997962-0.379768I$ $b=0.537001-0.211295I$	$-7.13217+4.86452I$	0
$u=-0.25299+1.45770I$ $a=0.371342+0.340879I$ $b=-0.889840+0.339869I$	$2.73935-1.44205I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.25299-1.45770I$ $a=\ \ 0.371342-0.340879I$ $b=-0.889840-0.339869I$	$2.73935+1.44205I$	0
$u=-1.32821+0.69461I$ $a=\ \ 0.01175-1.46223I$ $b=-1.29936-0.68644I$	$-3.4594+18.6505I$	0
$u=-1.32821-0.69461I$ $a=\ \ 0.01175+1.46223I$ $b=-1.29936+0.68644I$	$-3.4594-18.6505I$	0
$u=-1.30416+0.74302I$ $a=\ \ 0.222241+0.523886I$ $b=\ \ 0.781123-0.138371I$	$-0.983804-0.893136I$	0
$u=-1.30416-0.74302I$ $a=\ \ 0.222241-0.523886I$ $b=\ \ 0.781123+0.138371I$	$-0.983804+0.893136I$	0
$u=\ \ 0.065712+0.481544I$ $a=-0.052612+0.945417I$ $b=\ \ 0.334016+0.340844I$	$0.707089+1.076880I$	$4.73200-5.26476I$
$u=\ \ 0.065712-0.481544I$ $a=-0.052612-0.945417I$ $b=\ \ 0.334016-0.340844I$	$0.707089-1.076880I$	$4.73200+5.26476I$
$u=-1.31792+0.78965I$ $a=\ \ 0.106183-0.905562I$ $b=-1.221770-0.464344I$	$-2.61168+9.55584I$	0
$u=-1.31792-0.78965I$ $a=\ \ 0.106183+0.905562I$ $b=-1.221770+0.464344I$	$-2.61168-9.55584I$	0
$u=-1.45253+0.66887I$ $a=\ \ 0.044860+1.310230I$ $b=\ \ 1.088320+0.554757I$	$-1.44975+8.88875I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.45253-0.66887I$ $a=\ 0.044860-1.310230I$ $b=\ 1.088320-0.554757I$	$-1.44975-8.88875I$	0
$u=-0.146393+0.303286I$ $a=\ 2.33022-1.64478I$ $b=\ 0.121707-0.702495I$	$0.20217-2.39762I$	$2.80067+2.93719I$
$u=-0.146393-0.303286I$ $a=\ 2.33022+1.64478I$ $b=\ 0.121707+0.702495I$	$0.20217+2.39762I$	$2.80067-2.93719I$
$u=\ 1.67278+0.07424I$ $a=-0.302795-0.461913I$ $b=-0.675695-0.428254I$	$-7.67236+5.96387I$	0
$u=\ 1.67278-0.07424I$ $a=-0.302795+0.461913I$ $b=-0.675695+0.428254I$	$-7.67236-5.96387I$	0
$u=\ 0.15618+1.97729I$ $a=-0.202346+0.018617I$ $b=\ 0.979165-0.204325I$	$0.116311-0.699806I$	0
$u=\ 0.15618-1.97729I$ $a=-0.202346-0.018617I$ $b=\ 0.979165+0.204325I$	$0.116311+0.699806I$	0

II.

$\boldsymbol{I_2^u = \langle 2.45\times 10^8 u^{24} - 6.95\times 10^8 u^{23} + \cdots + 1.30\times 10^8 b - 1.64\times 10^8,\ -9.29\times 10^9 u^{24} + 2.19\times 10^{10} u^{23} + \cdots + 1.30\times 10^8 a + 1.19\times 10^{10},\ u^{25} - 2u^{24} + \cdots + 2u - 1\rangle}$

(i) Arc colorings

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

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

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

$$a_{10} = \begin{pmatrix} 71.4402u^{24} - 168.377u^{23} + \cdots + 422.826u - 91.5220 \\ -1.88405u^{24} + 5.34290u^{23} + \cdots - 3.00018u + 1.26434 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 50.4042u^{24} - 117.902u^{23} + \cdots + 297.393u - 64.7613 \\ -6.41737u^{24} + 16.7357u^{23} + \cdots - 40.8416u + 9.66707 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -68.2812u^{24} + 196.749u^{23} + \cdots - 644.811u + 193.281 \\ 5.42990u^{24} - 8.79498u^{23} + \cdots + 6.33272u + 1.18076 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -46.8507u^{24} + 136.870u^{23} + \cdots - 454.856u + 135.159 \\ 26.8603u^{24} - 68.6734u^{23} + \cdots + 196.287u - 56.9409 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -87.1836u^{24} + 196.568u^{23} + \cdots - 462.463u + 90.7930 \\ -6.36834u^{24} + 4.10518u^{23} + \cdots + 20.5737u - 14.0614 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -29.2290u^{24} + 42.9489u^{23} + \cdots + 14.6771u - 43.1831 \\ -53.9897u^{24} + 114.506u^{23} + \cdots - 233.641u + 43.7286 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 67.2328u^{24} - 185.134u^{23} + \cdots + 569.048u - 172.843 \\ 58.0366u^{24} - 151.454u^{23} + \cdots + 442.251u - 101.964 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 67.2328u^{24} - 185.134u^{23} + \cdots + 569.048u - 172.843 \\ 58.0366u^{24} - 151.454u^{23} + \cdots + 442.251u - 101.964 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes

$$= -\frac{19591815370}{130021567}u^{24} + \frac{57307936648}{130021567}u^{23} + \cdots - \frac{190001294619}{130021567}u + \frac{61319203002}{130021567}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{25}+2u^{24}+\cdots+2u+1$
c_2	$u^{25}+11u^{23}+\cdots-8u^2-1$
c_3	$u^{25}+5u^{24}+\cdots+58u+1$
c_4	$u^{25}-u^{24}+\cdots+u-1$
c_5	$u^{25}-2u^{24}+\cdots+2u-1$
c_6	$u^{25}-3u^{24}+\cdots-5u+1$
c_7	$u^{25}+11u^{23}+\cdots+8u^2+1$
c_8	$u^{25}-3u^{24}+\cdots-11u+1$
c_9	$u^{25}+u^{24}+\cdots+u+1$
c_{10}	$u^{25}+u^{24}+\cdots-32u+4$
c_{11}	$u^{25}-u^{24}+\cdots+4u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{25} - 8y^{24} + \cdots + 26y - 1$
c_2, c_7	$y^{25} + 22y^{24} + \cdots - 16y - 1$
c_3	$y^{25} + 3y^{24} + \cdots + 2786y - 1$
c_4, c_9	$y^{25} - 15y^{24} + \cdots + 15y - 1$
c_6	$y^{25} - 11y^{24} + \cdots + 17y - 1$
c_8	$y^{25} - 13y^{24} + \cdots + 9y - 1$
c_{10}	$y^{25} + 3y^{24} + \cdots + 288y - 16$
c_{11}	$y^{25} + 7y^{24} + \cdots + 12y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.961104 + 0.216757I$ $a = 0.82830 + 1.92200I$ $b = 0.22906 + 1.67734I$	$-7.51458 - 0.88315I$	$16.0452 + 11.7968I$
$u = 0.961104 - 0.216757I$ $a = 0.82830 - 1.92200I$ $b = 0.22906 - 1.67734I$	$-7.51458 + 0.88315I$	$16.0452 - 11.7968I$
$u = -1.027390 + 0.318577I$ $a = -0.54126 + 1.40585I$ $b = -0.482227 + 0.574667I$	$-2.00299 + 2.92583I$	$-3.18488 - 3.98778I$
$u = -1.027390 - 0.318577I$ $a = -0.54126 - 1.40585I$ $b = -0.482227 - 0.574667I$	$-2.00299 - 2.92583I$	$-3.18488 + 3.98778I$
$u = -1.050280 + 0.281886I$ $a = -0.170324 + 0.138425I$ $b = -0.388666 + 0.514577I$	$-1.91337 - 1.24200I$	$-0.78565 + 3.08602I$
$u = -1.050280 - 0.281886I$ $a = -0.170324 - 0.138425I$ $b = -0.388666 - 0.514577I$	$-1.91337 + 1.24200I$	$-0.78565 - 3.08602I$
$u = -0.804206 + 0.207405I$ $a = 0.07088 + 2.53312I$ $b = 0.480000 + 0.331753I$	$-0.82255 + 2.65916I$	$-1.06086 - 5.07656I$
$u = -0.804206 - 0.207405I$ $a = 0.07088 - 2.53312I$ $b = 0.480000 - 0.331753I$	$-0.82255 - 2.65916I$	$-1.06086 + 5.07656I$
$u = 0.224581 + 1.281530I$ $a = -0.380902 + 0.501253I$ $b = 0.958613 + 0.241984I$	$3.26842 + 0.97756I$	$10.95729 - 1.08442I$
$u = 0.224581 - 1.281530I$ $a = -0.380902 - 0.501253I$ $b = 0.958613 - 0.241984I$	$3.26842 - 0.97756I$	$10.95729 + 1.08442I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.606624 + 0.343201I$ $a = 2.31407 + 3.25632I$ $b = -0.752649 + 0.270430I$	$-2.17147 - 6.69375I$	$-0.66320 + 13.27253I$
$u = 0.606624 - 0.343201I$ $a = 2.31407 - 3.25632I$ $b = -0.752649 - 0.270430I$	$-2.17147 + 6.69375I$	$-0.66320 - 13.27253I$
$u = 1.146030 + 0.621494I$ $a = -0.03327 + 1.82480I$ $b = -1.133180 + 0.499131I$	$0.09748 - 7.10521I$	$-4.29341 + 8.11109I$
$u = 1.146030 - 0.621494I$ $a = -0.03327 - 1.82480I$ $b = -1.133180 - 0.499131I$	$0.09748 + 7.10521I$	$-4.29341 - 8.11109I$
$u = 0.662687$ $a = 1.16530$ $b = 1.75227$	6.20286	27.6530
$u = -1.243710 + 0.518011I$ $a = -0.078461 + 1.321280I$ $b = 1.253580 + 0.546810I$	$-3.08291 + 7.79645I$	$-1.39726 - 5.63068I$
$u = -1.243710 - 0.518011I$ $a = -0.078461 - 1.321280I$ $b = 1.253580 - 0.546810I$	$-3.08291 - 7.79645I$	$-1.39726 + 5.63068I$
$u = -0.542151 + 0.004934I$ $a = -1.05258 - 1.72005I$ $b = -1.45499 + 0.00870I$	$0.97373 - 4.98760I$	$0.46119 + 5.79323I$
$u = -0.542151 - 0.004934I$ $a = -1.05258 + 1.72005I$ $b = -1.45499 - 0.00870I$	$0.97373 + 4.98760I$	$0.46119 - 5.79323I$
$u = 0.487288 + 0.127615I$ $a = -1.96339 - 0.21626I$ $b = 1.326810 + 0.164938I$	$3.56108 + 3.01382I$	$10.68140 - 1.21294I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.487288 - 0.127615I$ $a = -1.96339 + 0.21626I$ $b = 1.326810 - 0.164938I$	$3.56108 - 3.01382I$	$10.68140 + 1.21294I$
$u = 1.53369 + 0.11612I$ $a = 0.720611 + 0.425034I$ $b = 0.589988 + 0.052896I$	$-6.81295 - 5.14573I$	$3.72477 + 8.12914I$
$u = 1.53369 - 0.11612I$ $a = 0.720611 - 0.425034I$ $b = 0.589988 - 0.052896I$	$-6.81295 + 5.14573I$	$3.72477 - 8.12914I$
$u = 0.37707 + 1.88086I$ $a = 0.203670 + 0.006984I$ $b = -1.002470 + 0.211304I$	$0.159233 - 0.694810I$	0
$u = 0.37707 - 1.88086I$ $a = 0.203670 - 0.006984I$ $b = -1.002470 - 0.211304I$	$0.159233 + 0.694810I$	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{25}+2u^{24}+\cdots+2u+1)(u^{107}+3u^{106}+\cdots-10305u-1139)$
c_2	$(u^{25}+11u^{23}+\cdots-8u^2-1)(u^{107}+u^{106}+\cdots-73u+151)$
c_3	$(u^{25}+5u^{24}+\cdots+58u+1)$ $\cdot(u^{107}-6u^{106}+\cdots-6634767u+1340716)$
c_4	$(u^{25}-u^{24}+\cdots+u-1)(u^{107}+2u^{106}+\cdots+282u+193)$
c_5	$(u^{25}-2u^{24}+\cdots+2u-1)(u^{107}+3u^{106}+\cdots-10305u-1139)$
c_6	$(u^{25}-3u^{24}+\cdots-5u+1)(u^{107}+16u^{106}+\cdots-24u-4)$
c_7	$(u^{25}+11u^{23}+\cdots+8u^2+1)(u^{107}+u^{106}+\cdots-73u+151)$
c_8	$(u^{25}-3u^{24}+\cdots-11u+1)(u^{107}-8u^{106}+\cdots+29u-2)$
c_9	$(u^{25}+u^{24}+\cdots+u+1)(u^{107}+2u^{106}+\cdots+282u+193)$
c_{10}	$(u^{25}+u^{24}+\cdots-32u+4)(u^{107}-2u^{106}+\cdots-10504u+844)$
c_{11}	$(u^{25}-u^{24}+\cdots+4u-1)(u^{107}+2u^{106}+\cdots-26229u-6833)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{25} - 8y^{24} + \cdots + 26y - 1)$ $\cdot (y^{107} - 55y^{106} + \cdots + 22754441y - 1297321)$
c_2, c_7	$(y^{25} + 22y^{24} + \cdots - 16y - 1)(y^{107} + 75y^{106} + \cdots - 624341y - 22801)$
c_3	$(y^{25} + 3y^{24} + \cdots + 2786y - 1)$ $\cdot (y^{107} - 24y^{106} + \cdots + 2724074633153y - 1797519392656)$
c_4, c_9	$(y^{25} - 15y^{24} + \cdots + 15y - 1)(y^{107} - 58y^{106} + \cdots + 979290y - 37249)$
c_6	$(y^{25} - 11y^{24} + \cdots + 17y - 1)(y^{107} - 6y^{106} + \cdots + 664y - 16)$
c_8	$(y^{25} - 13y^{24} + \cdots + 9y - 1)(y^{107} - 16y^{106} + \cdots - 35y - 4)$
c_{10}	$(y^{25} + 3y^{24} + \cdots + 288y - 16)$ $\cdot (y^{107} - 4y^{106} + \cdots + 49093376y - 712336)$
c_{11}	$(y^{25} + 7y^{24} + \cdots + 12y - 1)$ $\cdot (y^{107} - 16y^{106} + \cdots + 957467627y - 46689889)$