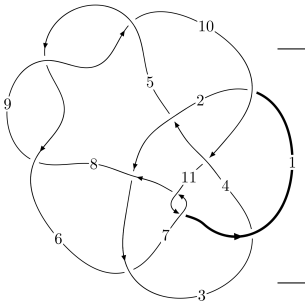
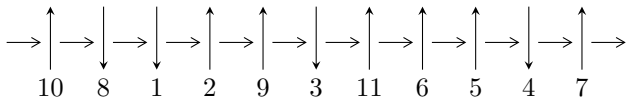
$11a_{256}$ $(K11a_{256})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle -8.45189 \times 10^{122} u^{81} + 2.24341 \times 10^{123} u^{80} + \cdots + 2.70538 \times 10^{122} b + 1.42226 \times 10^{122},$$
$$8.78383 \times 10^{122} u^{81} - 2.33856 \times 10^{123} u^{80} + \cdots + 2.70538 \times 10^{122} a + 1.70512 \times 10^{123},\ u^{82} - 3u^{81} + \cdots - 15u$$
$$I_2^u = \langle -u^{14} - 2u^{13} - 10u^{12} - 17u^{11} - 40u^{10} - 55u^9 - 79u^8 - 82u^7 - 76u^6 - 51u^5 - 27u^4 - 4u^3 + 2u^2 + b + 4u,$$
$$u^{15} + u^{14} + 8u^{13} + 8u^{12} + 24u^{11} + 22u^{10} + 31u^9 + 21u^8 + 11u^7 - 4u^6 - 7u^5 - 11u^4 + 2u^2 + a + 3u + 1,$$
$$u^{16} + 2u^{15} + \cdots - 4u^2 + 1\rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 98 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. $\boldsymbol{I_1^u = \langle -8.45 \times 10^{122} u^{81} + 2.24 \times 10^{123} u^{80} + \cdots + 2.71 \times 10^{122} b + 1.42 \times 10^{122},\ 8.78 \times 10^{122} u^{81} - 2.34 \times 10^{123} u^{80} + \cdots + 2.71 \times 10^{122} a + 1.71 \times 10^{123},\ u^{82} - 3u^{81} + \cdots - 15u + 1 \rangle}$

(i) Arc colorings

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

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

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

$$a_2 = \begin{pmatrix} -3.24680u^{81} + 8.64413u^{80} + \cdots + 21.7051u - 6.30272 \\ 3.12411u^{81} - 8.29242u^{80} + \cdots + 33.1864u - 0.525715 \end{pmatrix}$$

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

$$a_1 = \begin{pmatrix} -3.22493u^{81} + 8.55324u^{80} + \cdots - 4.56661u - 4.12654 \\ 3.14598u^{81} - 8.38332u^{80} + \cdots + 6.91462u + 1.65046 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.33864u^{81} - 5.77320u^{80} + \cdots + 70.5182u - 3.70405 \\ 2.19651u^{81} - 7.34656u^{80} + \cdots + 138.368u - 9.13067 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 2.25185u^{81} - 4.76796u^{80} + \cdots - 96.2134u + 13.7071 \\ 0.445401u^{81} - 1.81537u^{80} + \cdots + 70.4997u - 5.88345 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -3.17256u^{81} + 8.52796u^{80} + \cdots + 25.0463u - 6.52919 \\ 2.66750u^{81} - 7.37850u^{80} + \cdots + 28.3211u - 0.192700 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.358941u^{81} - 1.54211u^{80} + \cdots + 57.8850u - 6.06076 \\ -0.465964u^{81} + 0.770839u^{80} + \cdots + 50.0079u - 3.41294 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.358941u^{81} - 1.54211u^{80} + \cdots + 57.8850u - 6.06076 \\ -0.465964u^{81} + 0.770839u^{80} + \cdots + 50.0079u - 3.41294 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 2.26125u^{81} - 15.9680u^{80} + \cdots + 511.715u - 28.2831$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{82}+8u^{81}+\cdots+3960u+472$
c_2	$u^{82}-u^{81}+\cdots-4352u+512$
c_3	$u^{82}+6u^{81}+\cdots+1547u+543$
c_4	$u^{82}+9u^{80}+\cdots+1938u+279$
c_5, c_8, c_9	$u^{82}+3u^{81}+\cdots+15u+1$
c_6	$u^{82}+u^{81}+\cdots-14536u+9797$
c_7, c_{11}	$u^{82}+24u^{80}+\cdots-37u+43$
c_{10}	$u^{82}+4u^{80}+\cdots-30u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{82} + 26y^{81} + \cdots + 4280224y + 222784$
c_2	$y^{82} - 25y^{81} + \cdots - 18808832y + 262144$
c_3	$y^{82} - 24y^{81} + \cdots - 2823265y + 294849$
c_4	$y^{82} + 18y^{81} + \cdots + 1070856y + 77841$
c_5, c_8, c_9	$y^{82} + 87y^{81} + \cdots + 17y + 1$
c_6	$y^{82} - 35y^{81} + \cdots - 3758984936y + 95981209$
c_7, c_{11}	$y^{82} + 48y^{81} + \cdots + 40857y + 1849$
c_{10}	$y^{82} + 8y^{81} + \cdots - 26y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.848421 + 0.520032I$ $a = -0.279218 + 0.153559I$ $b = 0.021124 + 0.940599I$	$-5.23833 + 3.58110I$	0
$u = 0.848421 - 0.520032I$ $a = -0.279218 - 0.153559I$ $b = 0.021124 - 0.940599I$	$-5.23833 - 3.58110I$	0
$u = 0.230054 + 0.982996I$ $a = 1.35831 + 0.40646I$ $b = 0.713068 - 0.162440I$	$-1.89873 + 0.22579I$	0
$u = 0.230054 - 0.982996I$ $a = 1.35831 - 0.40646I$ $b = 0.713068 + 0.162440I$	$-1.89873 - 0.22579I$	0
$u = 0.795746 + 0.648558I$ $a = 0.378936 - 0.665797I$ $b = -0.952509 - 0.992848I$	$-3.52948 + 12.80360I$	0
$u = 0.795746 - 0.648558I$ $a = 0.378936 + 0.665797I$ $b = -0.952509 + 0.992848I$	$-3.52948 - 12.80360I$	0
$u = 0.754635 + 0.607172I$ $a = 0.713871 - 0.481869I$ $b = -0.481239 - 0.864034I$	$-5.61608 + 1.76260I$	0
$u = 0.754635 - 0.607172I$ $a = 0.713871 + 0.481869I$ $b = -0.481239 + 0.864034I$	$-5.61608 - 1.76260I$	0
$u = -0.807999 + 0.646747I$ $a = 0.421301 + 0.522180I$ $b = -0.853184 + 0.818654I$	$0.03640 - 6.74939I$	0
$u = -0.807999 - 0.646747I$ $a = 0.421301 - 0.522180I$ $b = -0.853184 - 0.818654I$	$0.03640 + 6.74939I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.946706 + 0.464469I$ $a = -0.359761 - 0.292329I$ $b = -0.551014 + 0.678230I$	$-2.89935 - 7.15022I$	0
$u = 0.946706 - 0.464469I$ $a = -0.359761 + 0.292329I$ $b = -0.551014 - 0.678230I$	$-2.89935 + 7.15022I$	0
$u = -0.397863 + 0.833537I$ $a = 1.41819 + 0.02085I$ $b = 0.558559 + 0.571616I$	$-2.38163 + 0.76876I$	0
$u = -0.397863 - 0.833537I$ $a = 1.41819 - 0.02085I$ $b = 0.558559 - 0.571616I$	$-2.38163 - 0.76876I$	0
$u = -1.057730 + 0.537571I$ $a = -0.133063 + 0.144826I$ $b = -0.298352 - 0.505129I$	$0.627372 + 0.834212I$	0
$u = -1.057730 - 0.537571I$ $a = -0.133063 - 0.144826I$ $b = -0.298352 + 0.505129I$	$0.627372 - 0.834212I$	0
$u = -0.258041 + 1.236650I$ $a = 0.647994 + 0.587108I$ $b = -0.727125 + 0.295134I$	$-2.10746 - 3.48943I$	0
$u = -0.258041 - 1.236650I$ $a = 0.647994 - 0.587108I$ $b = -0.727125 - 0.295134I$	$-2.10746 + 3.48943I$	0
$u = -0.520829 + 0.502496I$ $a = 0.008481 - 0.838189I$ $b = 0.897801 - 0.647875I$	$0.82893 - 1.90450I$	$4.86742 + 1.67415I$
$u = -0.520829 - 0.502496I$ $a = 0.008481 + 0.838189I$ $b = 0.897801 + 0.647875I$	$0.82893 + 1.90450I$	$4.86742 - 1.67415I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.304388 + 0.650719I$ $a = 0.344531 + 0.177159I$ $b = -1.102020 + 0.249997I$	$-3.24142 - 2.49646I$	$-3.48952 + 0.93958I$
$u = 0.304388 - 0.650719I$ $a = 0.344531 - 0.177159I$ $b = -1.102020 - 0.249997I$	$-3.24142 + 2.49646I$	$-3.48952 - 0.93958I$
$u = -0.653697 + 0.269632I$ $a = -0.292759 - 0.182981I$ $b = 0.844074 - 1.113800I$	$-0.62966 - 4.63978I$	$1.72550 + 8.55711I$
$u = -0.653697 - 0.269632I$ $a = -0.292759 + 0.182981I$ $b = 0.844074 + 1.113800I$	$-0.62966 + 4.63978I$	$1.72550 - 8.55711I$
$u = 0.435259 + 0.520271I$ $a = -0.51925 + 1.44214I$ $b = 0.964368 + 1.021760I$	$0.01973 + 4.53345I$	$1.62927 - 10.52525I$
$u = 0.435259 - 0.520271I$ $a = -0.51925 - 1.44214I$ $b = 0.964368 - 1.021760I$	$0.01973 - 4.53345I$	$1.62927 + 10.52525I$
$u = -0.416371 + 0.520352I$ $a = 0.571637 - 0.611403I$ $b = 0.797691 - 0.137985I$	$0.79688 - 1.51228I$	$5.59497 + 5.28418I$
$u = -0.416371 - 0.520352I$ $a = 0.571637 + 0.611403I$ $b = 0.797691 + 0.137985I$	$0.79688 + 1.51228I$	$5.59497 - 5.28418I$
$u = -0.650179 + 0.021954I$ $a = 1.044090 + 0.474203I$ $b = -0.457863 - 0.103655I$	$1.67625 + 0.10307I$	$10.54193 + 3.13566I$
$u = -0.650179 - 0.021954I$ $a = 1.044090 - 0.474203I$ $b = -0.457863 + 0.103655I$	$1.67625 - 0.10307I$	$10.54193 - 3.13566I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.128547+1.365150I$ $a=\ \ 0.289436+1.362680I$ $b=-0.094192+0.392027I$	$-2.64053-2.49367I$	0
$u=-0.128547-1.365150I$ $a=\ \ 0.289436-1.362680I$ $b=-0.094192-0.392027I$	$-2.64053+2.49367I$	0
$u=\ \ 0.001717+1.377580I$ $a=\ \ 0.60777-1.42357I$ $b=\ \ 0.136132-0.849643I$	$-4.87547-2.11824I$	0
$u=\ \ 0.001717-1.377580I$ $a=\ \ 0.60777+1.42357I$ $b=\ \ 0.136132+0.849643I$	$-4.87547+2.11824I$	0
$u=\ \ 0.507423+0.282090I$ $a=\ \ 0.85273-2.27652I$ $b=-0.631159-0.157718I$	$-1.99505+5.47458I$	$4.98884-10.22721I$
$u=\ \ 0.507423-0.282090I$ $a=\ \ 0.85273+2.27652I$ $b=-0.631159+0.157718I$	$-1.99505-5.47458I$	$4.98884+10.22721I$
$u=-0.18012+1.42912I$ $a=\ \ 0.24496-2.12810I$ $b=\ \ 1.00818-1.76354I$	$-6.08165-7.53590I$	0
$u=-0.18012-1.42912I$ $a=\ \ 0.24496+2.12810I$ $b=\ \ 1.00818+1.76354I$	$-6.08165+7.53590I$	0
$u=\ \ 0.02220+1.44292I$ $a=\ \ 0.196096+0.753555I$ $b=\ \ 1.37471+0.48801I$	$-4.92663+2.65020I$	0
$u=\ \ 0.02220-1.44292I$ $a=\ \ 0.196096-0.753555I$ $b=\ \ 1.37471-0.48801I$	$-4.92663-2.65020I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.10846 + 1.44200I$ $a = 0.43873 + 1.89782I$ $b = 1.25310 + 1.46090I$	$-4.82607 + 4.19978I$	0
$u = 0.10846 - 1.44200I$ $a = 0.43873 - 1.89782I$ $b = 1.25310 - 1.46090I$	$-4.82607 - 4.19978I$	0
$u = 0.13089 + 1.44676I$ $a = -0.30134 - 1.87375I$ $b = -0.195164 - 0.403584I$	$-7.61606 + 7.63883I$	0
$u = 0.13089 - 1.44676I$ $a = -0.30134 + 1.87375I$ $b = -0.195164 + 0.403584I$	$-7.61606 - 7.63883I$	0
$u = 0.05018 + 1.50060I$ $a = -1.04358 + 2.00260I$ $b = -1.47718 + 1.91057I$	$-10.50140 + 6.17930I$	0
$u = 0.05018 - 1.50060I$ $a = -1.04358 - 2.00260I$ $b = -1.47718 - 1.91057I$	$-10.50140 - 6.17930I$	0
$u = -0.02775 + 1.50247I$ $a = -0.48028 - 1.52733I$ $b = -0.99957 - 1.36175I$	$-7.57075 - 1.91522I$	0
$u = -0.02775 - 1.50247I$ $a = -0.48028 + 1.52733I$ $b = -0.99957 + 1.36175I$	$-7.57075 + 1.91522I$	0
$u = -0.059419 + 0.483891I$ $a = 1.085630 - 0.472882I$ $b = -0.266045 - 0.814352I$	$-0.99676 - 1.52566I$	$-2.22095 + 4.83726I$
$u = -0.059419 - 0.483891I$ $a = 1.085630 + 0.472882I$ $b = -0.266045 + 0.814352I$	$-0.99676 + 1.52566I$	$-2.22095 - 4.83726I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.02962+1.51246I$ $a=-0.39952-1.90255I$ $b=\ 0.629294-1.019480I$	$-10.94790-5.28525I$	0
$u=-0.02962-1.51246I$ $a=-0.39952+1.90255I$ $b=\ 0.629294+1.019480I$	$-10.94790+5.28525I$	0
$u=\ 0.430412+0.182241I$ $a=-1.009350-0.375067I$ $b=\ 0.925819+0.818610I$	$0.58505+2.42533I$	$4.66741+0.55099I$
$u=\ 0.430412-0.182241I$ $a=-1.009350+0.375067I$ $b=\ 0.925819-0.818610I$	$0.58505-2.42533I$	$4.66741-0.55099I$
$u=-0.15326+1.53297I$ $a=\ 0.57245-1.84376I$ $b=\ 1.00812-1.41371I$	$-5.96597-4.32362I$	0
$u=-0.15326-1.53297I$ $a=\ 0.57245+1.84376I$ $b=\ 1.00812+1.41371I$	$-5.96597+4.32362I$	0
$u=\ 0.12868+1.53593I$ $a=\ 0.41675+2.20491I$ $b=\ 0.94615+1.52086I$	$-6.86700+6.57360I$	0
$u=\ 0.12868-1.53593I$ $a=\ 0.41675-2.20491I$ $b=\ 0.94615-1.52086I$	$-6.86700-6.57360I$	0
$u=-0.042565+0.452034I$ $a=-2.24799-3.08194I$ $b=\ 0.193511-0.934402I$	$-4.32269-4.92458I$	$-8.27138+6.34141I$
$u=-0.042565-0.452034I$ $a=-2.24799+3.08194I$ $b=\ 0.193511+0.934402I$	$-4.32269+4.92458I$	$-8.27138-6.34141I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.04315 + 1.55403I$ $a = -1.094390 + 0.581684I$ $b = -1.70027 + 0.57610I$	$-10.64210 - 1.47490I$	0
$u = 0.04315 - 1.55403I$ $a = -1.094390 - 0.581684I$ $b = -1.70027 - 0.57610I$	$-10.64210 + 1.47490I$	0
$u = 0.159107 + 0.397170I$ $a = 0.795971 + 1.104450I$ $b = -0.77358 + 1.39138I$	$-4.10333 + 5.41336I$	$-8.23702 - 9.54805I$
$u = 0.159107 - 0.397170I$ $a = 0.795971 - 1.104450I$ $b = -0.77358 - 1.39138I$	$-4.10333 - 5.41336I$	$-8.23702 + 9.54805I$
$u = -0.03478 + 1.57499I$ $a = 0.556673 + 0.515788I$ $b = -0.333490 + 0.387147I$	$-10.49290 - 0.25231I$	0
$u = -0.03478 - 1.57499I$ $a = 0.556673 - 0.515788I$ $b = -0.333490 - 0.387147I$	$-10.49290 + 0.25231I$	0
$u = 0.25279 + 1.55852I$ $a = 0.16688 - 1.45380I$ $b = -0.838801 - 1.072450I$	$-12.71050 + 5.46717I$	0
$u = 0.25279 - 1.55852I$ $a = 0.16688 + 1.45380I$ $b = -0.838801 + 1.072450I$	$-12.71050 - 5.46717I$	0
$u = 0.29458 + 1.55732I$ $a = -0.341317 + 1.352360I$ $b = 0.309405 + 1.319020I$	$-12.0528 + 7.7881I$	0
$u = 0.29458 - 1.55732I$ $a = -0.341317 - 1.352360I$ $b = 0.309405 - 1.319020I$	$-12.0528 - 7.7881I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.26917+1.57829I$ $a=-0.16937+1.54689I$ $b=-1.12498+1.16651I$	$-7.24965-10.72690I$	0
$u=-0.26917-1.57829I$ $a=-0.16937-1.54689I$ $b=-1.12498-1.16651I$	$-7.24965+10.72690I$	0
$u=0.26626+1.58328I$ $a=-0.21215-1.75650I$ $b=-1.15684-1.34314I$	$-10.8601+16.7429I$	0
$u=0.26626-1.58328I$ $a=-0.21215+1.75650I$ $b=-1.15684+1.34314I$	$-10.8601-16.7429I$	0
$u=0.183942+0.338117I$ $a=1.65770+0.71465I$ $b=0.829211-0.571125I$	$0.45443-1.92720I$	$4.74257+2.64364I$
$u=0.183942-0.338117I$ $a=1.65770-0.71465I$ $b=0.829211+0.571125I$	$0.45443+1.92720I$	$4.74257-2.64364I$
$u=-0.23386+1.62107I$ $a=0.137921-1.034210I$ $b=0.599466-0.974710I$	$-7.32228-3.91026I$	0
$u=-0.23386-1.62107I$ $a=0.137921+1.034210I$ $b=0.599466+0.974710I$	$-7.32228+3.91026I$	0
$u=0.35096+1.68569I$ $a=-0.212323+0.518642I$ $b=0.204650+0.653748I$	$-9.84458-1.89156I$	0
$u=0.35096-1.68569I$ $a=-0.212323-0.518642I$ $b=0.204650-0.653748I$	$-9.84458+1.89156I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.175841 + 0.112202I$		
$a = -3.83138 - 2.52525I$	$0.40683 + 2.17965I$	$5.55317 - 5.50998I$
$b = 0.800141 + 0.471355I$		
$u = 0.175841 - 0.112202I$		
$a = -3.83138 + 2.52525I$	$0.40683 - 2.17965I$	$5.55317 + 5.50998I$
$b = 0.800141 - 0.471355I$		

II.

$\boldsymbol{I_2^u = \langle -u^{14}-2u^{13}+\cdots+b+4u,\ u^{15}+u^{14}+\cdots+a+1,\ u^{16}+2u^{15}+\cdots-4u^2+1\rangle}$

(i) Arc colorings

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

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

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

$$a_2 = \begin{pmatrix} -u^{15} - u^{14} + \cdots - 3u - 1 \\ u^{14} + 2u^{13} + \cdots - 2u^2 - 4u \end{pmatrix}$$

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

$$a_1 = \begin{pmatrix} -u^5 - u^4 - 3u^3 - 3u^2 - 2u - 1 \\ u^{15} + 2u^{14} + \cdots - 3u^2 - 3u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -2u^{15} - 4u^{14} + \cdots + 5u + 2 \\ -u^{15} - u^{14} + \cdots + 3u^2 - 2u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{14} - 6u^{12} + \cdots - 5u - 4 \\ -u^{15} - 2u^{14} + \cdots - u + 1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^{15} - 2u^{14} + \cdots - 3u - 1 \\ u^{12} + 2u^{11} + \cdots - 4u - 1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u^{15} + u^{14} + \cdots + 7u + 2 \\ -u^{14} - 3u^{13} + \cdots + 7u^2 + 4u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u^{15} + u^{14} + \cdots + 7u + 2 \\ -u^{14} - 3u^{13} + \cdots + 7u^2 + 4u \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 4u^{15} - 5u^{14} + 15u^{13} - 56u^{12} - 48u^{11} - 251u^{10} - 328u^9 - 544u^8 - 576u^7 - 549u^6 - 338u^5 - 185u^4 + 6u^3 + 13u^2 + 21u + 1$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - u^{15} + \cdots - u + 1$
c_2	$u^{16} - 3u^{14} + \cdots - 3u + 1$
c_3	$u^{16} + 9u^{15} + \cdots + 8u + 1$
c_4	$u^{16} - 7u^{15} + \cdots - 5u + 1$
c_5	$u^{16} + 2u^{15} + \cdots - 4u^2 + 1$
c_6	$u^{16} - 2u^{14} + \cdots - u + 1$
c_7	$u^{16} - u^{15} + \cdots + 6u^2 + 1$
c_8, c_9	$u^{16} - 2u^{15} + \cdots - 4u^2 + 1$
c_{10}	$u^{16} - u^{15} + \cdots - u + 1$
c_{11}	$u^{16} + u^{15} + \cdots + 6u^2 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{16}+5y^{15}+\cdots+7y+1$
c_2	$y^{16}-6y^{15}+\cdots+y+1$
c_3	$y^{16}+3y^{15}+\cdots+14y+1$
c_4	$y^{16}+5y^{15}+\cdots-y+1$
c_5, c_8, c_9	$y^{16}+18y^{15}+\cdots-8y+1$
c_6	$y^{16}-4y^{15}+\cdots-13y+1$
c_7, c_{11}	$y^{16}+7y^{15}+\cdots+12y+1$
c_{10}	$y^{16}+7y^{15}+\cdots+5y+1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.125215+1.052150I$ $a=\ 1.52779+0.31343I$ $b=\ 0.997454+0.473846I$	$-1.44116+1.20136I$	$3.05969-5.58313I$
$u=-0.125215-1.052150I$ $a=\ 1.52779-0.31343I$ $b=\ 0.997454-0.473846I$	$-1.44116-1.20136I$	$3.05969+5.58313I$
$u=-0.794716+0.429068I$ $a=-0.020840-0.565606I$ $b=\ 0.269183+0.344796I$	$0.845853+0.501839I$	$4.49186+3.61839I$
$u=-0.794716-0.429068I$ $a=-0.020840+0.565606I$ $b=\ 0.269183-0.344796I$	$0.845853-0.501839I$	$4.49186-3.61839I$
$u=-0.192301+1.231470I$ $a=-0.777776-0.687447I$ $b=\ 0.784660-0.317944I$	$-1.88854-3.66694I$	$12.3158+12.6160I$
$u=-0.192301-1.231470I$ $a=-0.777776+0.687447I$ $b=\ 0.784660+0.317944I$	$-1.88854+3.66694I$	$12.3158-12.6160I$
$u=-0.409152+0.389086I$ $a=-0.598837-0.699315I$ $b=\ 0.99426-1.00837I$	$0.28915-3.18191I$	$1.33628+8.27653I$
$u=-0.409152-0.389086I$ $a=-0.598837+0.699315I$ $b=\ 0.99426+1.00837I$	$0.28915+3.18191I$	$1.33628-8.27653I$
$u=\ 0.11544+1.46961I$ $a=-0.29937+2.22090I$ $b=\ 0.10144+1.44141I$	$-8.75819+6.76339I$	$-4.52294-6.18611I$
$u=\ 0.11544-1.46961I$ $a=-0.29937-2.22090I$ $b=\ 0.10144-1.44141I$	$-8.75819-6.76339I$	$-4.52294+6.18611I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.12811+1.51638I$ $a=\ \ 0.58938-2.08769I$ $b=\ \ 1.16770-1.64492I$	$-6.15992-5.12499I$	$-2.54608+6.52368I$
$u=-0.12811-1.51638I$ $a=\ \ 0.58938+2.08769I$ $b=\ \ 1.16770+1.64492I$	$-6.15992+5.12499I$	$-2.54608-6.52368I$
$u=\ \ 0.403245+0.047429I$ $a=-2.21447-0.06862I$ $b=-0.151854+0.863960I$	$-3.33071+5.01746I$	$1.44271-5.49455I$
$u=\ \ 0.403245-0.047429I$ $a=-2.21447+0.06862I$ $b=-0.151854-0.863960I$	$-3.33071-5.01746I$	$1.44271+5.49455I$
$u=\ \ 0.13081+1.62501I$ $a=-0.205878+0.077876I$ $b=-0.662841-0.129176I$	$-9.16530-2.37958I$	$-1.57735+5.43766I$
$u=\ \ 0.13081-1.62501I$ $a=-0.205878-0.077876I$ $b=-0.662841+0.129176I$	$-9.16530+2.37958I$	$-1.57735-5.43766I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{16}-u^{15}+\cdots-u+1)(u^{82}+8u^{81}+\cdots+3960u+472)$
c_2	$(u^{16}-3u^{14}+\cdots-3u+1)(u^{82}-u^{81}+\cdots-4352u+512)$
c_3	$(u^{16}+9u^{15}+\cdots+8u+1)(u^{82}+6u^{81}+\cdots+1547u+543)$
c_4	$(u^{16}-7u^{15}+\cdots-5u+1)(u^{82}+9u^{80}+\cdots+1938u+279)$
c_5	$(u^{16}+2u^{15}+\cdots-4u^2+1)(u^{82}+3u^{81}+\cdots+15u+1)$
c_6	$(u^{16}-2u^{14}+\cdots-u+1)(u^{82}+u^{81}+\cdots-14536u+9797)$
c_7	$(u^{16}-u^{15}+\cdots+6u^2+1)(u^{82}+24u^{80}+\cdots-37u+43)$
c_8, c_9	$(u^{16}-2u^{15}+\cdots-4u^2+1)(u^{82}+3u^{81}+\cdots+15u+1)$
c_{10}	$(u^{16}-u^{15}+\cdots-u+1)(u^{82}+4u^{80}+\cdots-30u+1)$
c_{11}	$(u^{16}+u^{15}+\cdots+6u^2+1)(u^{82}+24u^{80}+\cdots-37u+43)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{16}+5y^{15}+\cdots+7y+1)(y^{82}+26y^{81}+\cdots+4280224y+222784)$
c_2	$(y^{16}-6y^{15}+\cdots+y+1)(y^{82}-25y^{81}+\cdots-1.88088\times10^{7}y+262144)$
c_3	$(y^{16}+3y^{15}+\cdots+14y+1)(y^{82}-24y^{81}+\cdots-2823265y+294849)$
c_4	$(y^{16}+5y^{15}+\cdots-y+1)(y^{82}+18y^{81}+\cdots+1070856y+77841)$
c_5, c_8, c_9	$(y^{16}+18y^{15}+\cdots-8y+1)(y^{82}+87y^{81}+\cdots+17y+1)$
c_6	$(y^{16}-4y^{15}+\cdots-13y+1)$ $\cdot(y^{82}-35y^{81}+\cdots-3758984936y+95981209)$
c_7, c_{11}	$(y^{16}+7y^{15}+\cdots+12y+1)(y^{82}+48y^{81}+\cdots+40857y+1849)$
c_{10}	$(y^{16}+7y^{15}+\cdots+5y+1)(y^{82}+8y^{81}+\cdots-26y+1)$