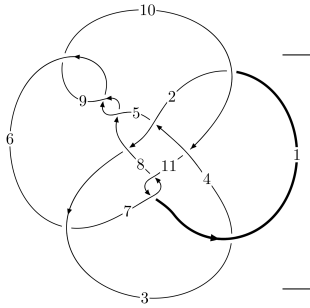
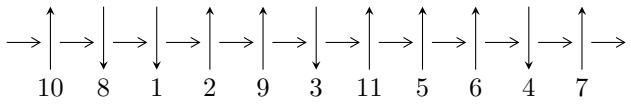
$11a_{255}$ $(K11a_{255})$



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 $X_{\mathbf{par}}$

$$I_1^u = \langle 1.80659 \times 10^{126} u^{87} + 6.62202 \times 10^{126} u^{86} + \cdots + 8.45954 \times 10^{125} b - 6.83566 \times 10^{124},$$
$$6.92943 \times 10^{125} u^{87} + 2.71684 \times 10^{125} u^{86} + \cdots + 8.45954 \times 10^{125} a + 3.63682 \times 10^{126},\ u^{88} + 3u^{87} + \cdots + 12u$$
$$I_2^u = \langle 6u^{16} - 5u^{15} + \cdots + b + 9,\ -4u^{16} + 3u^{15} + \cdots + a - 3,\ u^{17} - 2u^{16} + \cdots + 2u - 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 105 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. $\boldsymbol{I_1^u = \langle 1.81 \times 10^{126} u^{87} + 6.62 \times 10^{126} u^{86} + \cdots + 8.46 \times 10^{125} b - 6.84 \times 10^{124},\ 6.93 \times 10^{125} u^{87} + 2.72 \times 10^{125} u^{86} + \cdots + 8.46 \times 10^{125} a + 3.64 \times 10^{126},\ u^{88} + 3u^{87} + \cdots + 12u - 1 \rangle}$

(i) Arc colorings

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

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

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

$$a_2 = \begin{pmatrix} -0.819125u^{87} - 0.321157u^{86} + \cdots + 16.0138u - 4.29907 \\ -2.13556u^{87} - 7.82787u^{86} + \cdots + 22.9711u + 0.0808042 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u \\ -u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.129180u^{87} + 0.672098u^{86} + \cdots + 3.50283u - 3.01968 \\ -2.64974u^{87} - 8.65151u^{86} + \cdots - 3.14880u + 2.43678 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -2.08531u^{87} - 5.49795u^{86} + \cdots + 25.3255u - 0.354318 \\ -1.84736u^{87} - 5.50308u^{86} + \cdots + 87.1798u - 7.04699 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -1.83766u^{87} - 6.94809u^{86} + \cdots - 62.8333u + 11.5382 \\ -0.322083u^{87} - 1.44486u^{86} + \cdots + 69.6894u - 6.79609 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -0.332721u^{87} - 0.302475u^{86} + \cdots + 27.5489u - 5.01410 \\ -2.62197u^{87} - 7.84655u^{86} + \cdots + 11.4361u + 0.795836 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.00418543u^{87} - 0.339575u^{86} + \cdots + 87.8936u - 8.51572 \\ -0.524156u^{87} + 1.20963u^{86} + \cdots + 25.6387u - 2.61072 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.00418543u^{87} - 0.339575u^{86} + \cdots + 87.8936u - 8.51572 \\ -0.524156u^{87} + 1.20963u^{86} + \cdots + 25.6387u - 2.61072 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -1.27706u^{87} - 1.69690u^{86} + \cdots + 382.685u - 26.5055$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{88}+9u^{87}+\cdots-24u-1$
c_2	$u^{88}-u^{87}+\cdots+1530u-73$
c_3	$u^{88}+2u^{87}+\cdots+1392u+133$
c_4	$u^{88}-3u^{87}+\cdots+6998u+2363$
c_5, c_8, c_9	$u^{88}-3u^{87}+\cdots-12u-1$
c_6	$u^{88}-u^{87}+\cdots+9888u-1216$
c_7, c_{11}	$u^{88}+26u^{86}+\cdots+35u-19$
c_{10}	$u^{88}+5u^{87}+\cdots+32u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{88} - 15y^{87} + \cdots + 48y + 1$
c_2	$y^{88} + 17y^{87} + \cdots + 439816y + 5329$
c_3	$y^{88} - 16y^{87} + \cdots - 1724598y + 17689$
c_4	$y^{88} - 23y^{87} + \cdots - 69312708y + 5583769$
c_5, c_8, c_9	$y^{88} - 87y^{87} + \cdots + 6y + 1$
c_6	$y^{88} - 7y^{87} + \cdots - 41894912y + 1478656$
c_7, c_{11}	$y^{88} + 52y^{87} + \cdots + 8009y + 361$
c_{10}	$y^{88} - 9y^{87} + \cdots - 42y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.461471+0.841006I$ $a=\ \ 0.528338+0.458503I$ $b=-1.067760+0.659062I$	$0.94916-7.07982I$	0
$u=-0.461471-0.841006I$ $a=\ \ 0.528338-0.458503I$ $b=-1.067760-0.659062I$	$0.94916+7.07982I$	0
$u=\ \ 0.461917+0.839983I$ $a=\ \ 0.521449-0.561797I$ $b=-1.15881-0.86775I$	$-2.63728+13.13360I$	0
$u=\ \ 0.461917-0.839983I$ $a=\ \ 0.521449+0.561797I$ $b=-1.15881+0.86775I$	$-2.63728-13.13360I$	0
$u=\ \ 0.716320+0.759777I$ $a=-0.096496-0.698922I$ $b=-0.910905+0.530988I$	$-1.90928-7.75289I$	0
$u=\ \ 0.716320-0.759777I$ $a=-0.096496+0.698922I$ $b=-0.910905-0.530988I$	$-1.90928+7.75289I$	0
$u=-0.747640+0.738917I$ $a=\ \ 0.185794+0.644451I$ $b=-0.800040-0.321449I$	$1.75411+1.70043I$	0
$u=-0.747640-0.738917I$ $a=\ \ 0.185794-0.644451I$ $b=-0.800040+0.321449I$	$1.75411-1.70043I$	0
$u=\ \ 0.462797+0.784939I$ $a=\ \ 0.713999-0.375007I$ $b=-0.575391-0.639112I$	$-4.87171+1.98745I$	0
$u=\ \ 0.462797-0.784939I$ $a=\ \ 0.713999+0.375007I$ $b=-0.575391+0.639112I$	$-4.87171-1.98745I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.661971 + 0.926980I$ $a = -0.0387633 + 0.1080350I$ $b = 0.248682 + 0.443728I$	$-4.12384 + 3.33457I$	0
$u = 0.661971 - 0.926980I$ $a = -0.0387633 - 0.1080350I$ $b = 0.248682 - 0.443728I$	$-4.12384 - 3.33457I$	0
$u = -0.708244 + 0.478843I$ $a = -0.296258 - 0.177834I$ $b = 0.853123 - 0.895770I$	$-0.49529 - 4.30405I$	0
$u = -0.708244 - 0.478843I$ $a = -0.296258 + 0.177834I$ $b = 0.853123 + 0.895770I$	$-0.49529 + 4.30405I$	0
$u = 0.830448 + 0.798387I$ $a = 0.0650164 - 0.0284208I$ $b = -0.131884 + 0.335388I$	$-4.10019 + 3.25868I$	0
$u = 0.830448 - 0.798387I$ $a = 0.0650164 + 0.0284208I$ $b = -0.131884 - 0.335388I$	$-4.10019 - 3.25868I$	0
$u = 1.210430 + 0.168812I$ $a = 0.657008 - 0.139362I$ $b = 0.238030 + 0.541756I$	$1.12675 + 3.01989I$	0
$u = 1.210430 - 0.168812I$ $a = 0.657008 + 0.139362I$ $b = 0.238030 - 0.541756I$	$1.12675 - 3.01989I$	0
$u = -1.242660 + 0.064543I$ $a = 0.356767 + 0.064742I$ $b = 0.259039 + 1.176710I$	$-0.78403 + 3.10651I$	0
$u = -1.242660 - 0.064543I$ $a = 0.356767 - 0.064742I$ $b = 0.259039 - 1.176710I$	$-0.78403 - 3.10651I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.752023+0.025277I$ $a=\ \ 1.248130-0.539713I$ $b=-0.373499+0.173438I$	$1.43199-0.10841I$	$9.03393-1.67726I$
$u=-0.752023-0.025277I$ $a=\ \ 1.248130+0.539713I$ $b=-0.373499-0.173438I$	$1.43199+0.10841I$	$9.03393+1.67726I$
$u=\ \ 1.265790+0.009736I$ $a=\ \ 2.61060+0.86684I$ $b=-1.59560-0.66566I$	$-0.88817-4.15422I$	0
$u=\ \ 1.265790-0.009736I$ $a=\ \ 2.61060-0.86684I$ $b=-1.59560+0.66566I$	$-0.88817+4.15422I$	0
$u=-0.083085+0.724734I$ $a=\ \ 1.158860+0.095466I$ $b=\ \ 0.431630+0.250640I$	$-2.63186+0.30603I$	$-4.47610+0.84684I$
$u=-0.083085-0.724734I$ $a=\ \ 1.158860-0.095466I$ $b=\ \ 0.431630-0.250640I$	$-2.63186-0.30603I$	$-4.47610-0.84684I$
$u=-0.406517+0.596845I$ $a=-0.134387-0.848786I$ $b=\ \ 1.080960-0.597180I$	$1.08733-1.99106I$	$6.09235+1.36477I$
$u=-0.406517-0.596845I$ $a=-0.134387+0.848786I$ $b=\ \ 1.080960+0.597180I$	$1.08733+1.99106I$	$6.09235-1.36477I$
$u=-1.28104$ $a=\ \ 1.92302$ $b=-1.09485$	2.27296	0
$u=-1.279570+0.203713I$ $a=\ \ 1.06056+0.94410I$ $b=-0.895929-0.812012I$	$1.161850-0.746665I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.279570-0.203713I$ $a=\ \ 1.06056-0.94410I$ $b=-0.895929+0.812012I$	$1.161850+0.746665I$	0
$u=-0.322097+0.620023I$ $a=\ \ 0.315508-0.621708I$ $b=\ \ 0.946527-0.186707I$	$0.94922-1.67367I$	$6.07995+4.98191I$
$u=-0.322097-0.620023I$ $a=\ \ 0.315508+0.621708I$ $b=\ \ 0.946527+0.186707I$	$0.94922+1.67367I$	$6.07995-4.98191I$
$u=\ \ 0.332971+0.562296I$ $a=-0.68132+1.26827I$ $b=\ \ 1.05330+1.02301I$	$0.17356+4.65502I$	$2.68890-10.30148I$
$u=\ \ 0.332971-0.562296I$ $a=-0.68132-1.26827I$ $b=\ \ 1.05330-1.02301I$	$0.17356-4.65502I$	$2.68890+10.30148I$
$u=\ \ 1.349230+0.081552I$ $a=-0.072511-1.110690I$ $b=-0.00272+1.71935I$	$3.28529+3.22075I$	0
$u=\ \ 1.349230-0.081552I$ $a=-0.072511+1.110690I$ $b=-0.00272-1.71935I$	$3.28529-3.22075I$	0
$u=\ \ 1.352360+0.095803I$ $a=-2.37770-0.49924I$ $b=\ \ 0.479377+0.433404I$	$0.04809+6.65339I$	0
$u=\ \ 1.352360-0.095803I$ $a=-2.37770+0.49924I$ $b=\ \ 0.479377-0.433404I$	$0.04809-6.65339I$	0
$u=\ \ 0.511484+0.381620I$ $a=\ \ 1.12929-2.15831I$ $b=-0.702835-0.184361I$	$-1.90539+5.37165I$	$4.99409-10.30612I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.511484 - 0.381620I$ $a = 1.12929 + 2.15831I$ $b = -0.702835 + 0.184361I$	$-1.90539 - 5.37165I$	$4.99409 + 10.30612I$
$u = 0.164196 + 0.612873I$ $a = 0.375315 + 0.193004I$ $b = -1.129360 + 0.356278I$	$-3.27941 - 2.28675I$	$-3.82551 + 1.37856I$
$u = 0.164196 - 0.612873I$ $a = 0.375315 - 0.193004I$ $b = -1.129360 - 0.356278I$	$-3.27941 + 2.28675I$	$-3.82551 - 1.37856I$
$u = -1.382080 + 0.113573I$ $a = 0.23821 + 1.80685I$ $b = -0.56801 - 2.23826I$	$0.79244 - 7.21107I$	0
$u = -1.382080 - 0.113573I$ $a = 0.23821 - 1.80685I$ $b = -0.56801 + 2.23826I$	$0.79244 + 7.21107I$	0
$u = 1.391480 + 0.005846I$ $a = -1.256520 + 0.038074I$ $b = 0.961160 - 1.030150I$	$4.81925 - 2.14563I$	0
$u = 1.391480 - 0.005846I$ $a = -1.256520 - 0.038074I$ $b = 0.961160 + 1.030150I$	$4.81925 + 2.14563I$	0
$u = -1.367910 + 0.282397I$ $a = -0.943677 - 0.996974I$ $b = 1.134880 + 0.127270I$	$5.06894 - 1.03566I$	0
$u = -1.367910 - 0.282397I$ $a = -0.943677 + 0.996974I$ $b = 1.134880 - 0.127270I$	$5.06894 + 1.03566I$	0
$u = -1.411040 + 0.057384I$ $a = -1.90492 + 0.51638I$ $b = 1.046140 + 0.137041I$	$5.63533 - 2.97696I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.411040-0.057384I$ $a=-1.90492-0.51638I$ $b=\ 1.046140-0.137041I$	$5.63533+2.97696I$	0
$u=-1.43441+0.20928I$ $a=-2.21776+0.04987I$ $b=\ 1.41019-1.20573I$	$5.87411-7.49299I$	0
$u=-1.43441-0.20928I$ $a=-2.21776-0.04987I$ $b=\ 1.41019+1.20573I$	$5.87411+7.49299I$	0
$u=\ 1.45850+0.22546I$ $a=-1.93667+0.23400I$ $b=\ 1.62738+0.88334I$	$7.10229+5.03178I$	0
$u=\ 1.45850-0.22546I$ $a=-1.93667-0.23400I$ $b=\ 1.62738-0.88334I$	$7.10229-5.03178I$	0
$u=\ 1.46091+0.26784I$ $a=-1.41901+0.35326I$ $b=\ 1.32346+0.58187I$	$6.71196+5.09265I$	0
$u=\ 1.46091-0.26784I$ $a=-1.41901-0.35326I$ $b=\ 1.32346-0.58187I$	$6.71196-5.09265I$	0
$u=\ 0.463199+0.202675I$ $a=-0.925640-0.568827I$ $b=\ 0.895298+0.761077I$	$0.58871+2.37016I$	$4.17793+0.20978I$
$u=\ 0.463199-0.202675I$ $a=-0.925640+0.568827I$ $b=\ 0.895298-0.761077I$	$0.58871-2.37016I$	$4.17793-0.20978I$
$u=-1.49052+0.12670I$ $a=-2.00668+0.39222I$ $b=\ 1.61947-0.73656I$	$7.08647-3.90826I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.49052-0.12670I$ $a=-2.00668-0.39222I$ $b=\ \ 1.61947+0.73656I$	$7.08647+3.90826I$	0
$u=-1.49094+0.14407I$ $a=\ \ 1.31374+0.79966I$ $b=-0.672972+0.541325I$	$4.61143-7.37584I$	0
$u=-1.49094-0.14407I$ $a=\ \ 1.31374-0.79966I$ $b=-0.672972-0.541325I$	$4.61143+7.37584I$	0
$u=-1.51168+0.27680I$ $a=\ \ 1.57883+0.09561I$ $b=-0.966303+0.625481I$	$1.55133-5.83848I$	0
$u=-1.51168-0.27680I$ $a=\ \ 1.57883-0.09561I$ $b=-0.966303-0.625481I$	$1.55133+5.83848I$	0
$u=-1.51194+0.30714I$ $a=\ \ 1.90269+0.09005I$ $b=-1.45359+1.01576I$	$3.7463-17.3074I$	0
$u=-1.51194-0.30714I$ $a=\ \ 1.90269-0.09005I$ $b=-1.45359-1.01576I$	$3.7463+17.3074I$	0
$u=\ \ 1.51283+0.30406I$ $a=\ \ 1.80560-0.17118I$ $b=-1.39154-0.78176I$	$7.34238+11.23930I$	0
$u=\ \ 1.51283-0.30406I$ $a=\ \ 1.80560+0.17118I$ $b=-1.39154+0.78176I$	$7.34238-11.23930I$	0
$u=\ \ 1.53850+0.17987I$ $a=-1.73418-0.42086I$ $b=\ \ 1.54927+1.11382I$	$6.81415+6.82656I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.53850 - 0.17987I$ $a = -1.73418 + 0.42086I$ $b = 1.54927 - 1.11382I$	$6.81415 - 6.82656I$	0
$u = -0.050133 + 0.441148I$ $a = 0.993692 - 0.507935I$ $b = -0.303771 - 0.868150I$	$-1.03837 - 1.54696I$	$-1.67898 + 4.77723I$
$u = -0.050133 - 0.441148I$ $a = 0.993692 + 0.507935I$ $b = -0.303771 + 0.868150I$	$-1.03837 + 1.54696I$	$-1.67898 - 4.77723I$
$u = 1.55518 + 0.14824I$ $a = 1.208090 - 0.434884I$ $b = -0.896135 - 0.279463I$	$9.64122 + 1.15165I$	0
$u = 1.55518 - 0.14824I$ $a = 1.208090 + 0.434884I$ $b = -0.896135 + 0.279463I$	$9.64122 - 1.15165I$	0
$u = -0.040036 + 0.423083I$ $a = -2.16221 - 2.72595I$ $b = 0.223065 - 0.923326I$	$-4.35734 - 4.93840I$	$-7.58655 + 6.46522I$
$u = -0.040036 - 0.423083I$ $a = -2.16221 + 2.72595I$ $b = 0.223065 + 0.923326I$	$-4.35734 + 4.93840I$	$-7.58655 - 6.46522I$
$u = -1.55024 + 0.32691I$ $a = -0.964062 + 0.135780I$ $b = 0.779113 - 0.898123I$	$2.86988 - 7.90451I$	0
$u = -1.55024 - 0.32691I$ $a = -0.964062 - 0.135780I$ $b = 0.779113 + 0.898123I$	$2.86988 + 7.90451I$	0
$u = 0.138202 + 0.386589I$ $a = 0.686542 + 1.075090I$ $b = -0.77356 + 1.44194I$	$-4.10700 + 5.44401I$	$-7.49868 - 9.59248I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.138202 - 0.386589I$ $a = 0.686542 - 1.075090I$ $b = -0.77356 - 1.44194I$	$-4.10700 - 5.44401I$	$-7.49868 + 9.59248I$
$u = -1.59892 + 0.13692I$ $a = 1.000610 + 0.377588I$ $b = -0.984883 + 0.138127I$	$6.15553 + 4.54274I$	0
$u = -1.59892 - 0.13692I$ $a = 1.000610 - 0.377588I$ $b = -0.984883 - 0.138127I$	$6.15553 - 4.54274I$	0
$u = 0.142949 + 0.365957I$ $a = 1.46432 + 0.58792I$ $b = 0.834993 - 0.548206I$	$0.45850 - 1.90438I$	$4.87683 + 2.73751I$
$u = 0.142949 - 0.365957I$ $a = 1.46432 - 0.58792I$ $b = 0.834993 + 0.548206I$	$0.45850 + 1.90438I$	$4.87683 - 2.73751I$
$u = 1.64753$ $a = 1.65458$ $b = -0.774179$	10.0236	0
$u = 0.178255 + 0.115095I$ $a = -3.73900 - 2.62365I$ $b = 0.794927 + 0.470433I$	$0.40811 + 2.17817I$	$5.56775 - 5.52206I$
$u = 0.178255 - 0.115095I$ $a = -3.73900 + 2.62365I$ $b = 0.794927 - 0.470433I$	$0.40811 - 2.17817I$	$5.56775 + 5.52206I$

II.

$\boldsymbol{I_2^u = \langle 6u^{16}-5u^{15}+\cdots+b+9,\ -4u^{16}+3u^{15}+\cdots+a-3,\ u^{17}-2u^{16}+\cdots+2u-1\rangle}$

(i) Arc colorings

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

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

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

$$a_2 = \begin{pmatrix} 4u^{16} - 3u^{15} + \cdots - 6u + 3 \\ -6u^{16} + 5u^{15} + \cdots + 2u - 9 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u \\ -u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 9u^{16} - 6u^{15} + \cdots - 11u + 8 \\ -9u^{16} + 6u^{15} + \cdots + 6u - 11 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -7u^{16} + 57u^{14} + \cdots + 20u + 5 \\ 8u^{16} - 7u^{15} + \cdots - 5u + 6 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -3u^{16} + 10u^{15} + \cdots - 14u - 14 \\ -2u^{15} + 3u^{14} + \cdots + 8u^2 + 4u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 6u^{16} - 4u^{15} + \cdots - 8u + 5 \\ -8u^{16} + 6u^{15} + \cdots + 4u - 11 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 9u^{16} - 9u^{15} + \cdots + 2u + 15 \\ -3u^{15} + u^{14} + \cdots + 8u + 5 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 9u^{16} - 9u^{15} + \cdots + 2u + 15 \\ -3u^{15} + u^{14} + \cdots + 8u + 5 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 34u^{16} - 33u^{15} - 269u^{14} + 269u^{13} + 827u^{12} - 928u^{11} - 1263u^{10} + 1777u^9 + 1168u^8 - 2053u^7 - 1041u^6 + 1333u^5 + 877u^4 - 331u^3 - 342u^2 - 15u + 54$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 2u^{16} + \cdots - 4u - 1$
c_2	$u^{17} - 3u^{15} + \cdots + 2u + 1$
c_3	$u^{17} + 9u^{16} + \cdots + 12u + 1$
c_4	$u^{17} - 8u^{16} + \cdots + 10u - 1$
c_5	$u^{17} - 2u^{16} + \cdots + 2u - 1$
c_6	$u^{17} - 2u^{16} + \cdots + 2u - 1$
c_7	$u^{17} - u^{16} + \cdots + u - 1$
c_8, c_9	$u^{17} + 2u^{16} + \cdots + 2u + 1$
c_{10}	$u^{17} + 4u^{16} + \cdots + 2u - 1$
c_{11}	$u^{17} + u^{16} + \cdots + u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} - 14y^{16} + \cdots + 12y - 1$
c_2	$y^{17} - 6y^{16} + \cdots - 8y^2 - 1$
c_3	$y^{17} + y^{16} + \cdots + 18y - 1$
c_4	$y^{17} + 2y^{16} + \cdots + 4y - 1$
c_5, c_8, c_9	$y^{17} - 18y^{16} + \cdots + 18y - 1$
c_6	$y^{17} + 6y^{16} + \cdots + 12y - 1$
c_7, c_{11}	$y^{17} + 9y^{16} + \cdots - 13y - 1$
c_{10}	$y^{17} - 12y^{16} + \cdots + 14y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.196410+0.042923I$ $a=\ \ 0.307258+0.955570I$ $b=\ \ 0.193767-1.133430I$	$2.31141-2.16263I$	$6.33291+1.14130I$
$u=-1.196410-0.042923I$ $a=\ \ 0.307258-0.955570I$ $b=\ \ 0.193767+1.133430I$	$2.31141+2.16263I$	$6.33291-1.14130I$
$u=-0.699765+0.361992I$ $a=-0.694115-1.124900I$ $b=\ \ 0.506823+0.381587I$	$1.024420+0.934539I$	$3.42338-2.45300I$
$u=-0.699765-0.361992I$ $a=-0.694115+1.124900I$ $b=\ \ 0.506823-0.381587I$	$1.024420-0.934539I$	$3.42338+2.45300I$
$u=\ \ 0.788709+0.955075I$ $a=-0.141999+0.205787I$ $b=\ \ 0.356005+0.214476I$	$-3.91587+3.42072I$	$20.1307-16.0266I$
$u=\ \ 0.788709-0.955075I$ $a=-0.141999-0.205787I$ $b=\ \ 0.356005-0.214476I$	$-3.91587-3.42072I$	$20.1307+16.0266I$
$u=\ \ 1.296440+0.017393I$ $a=\ \ 1.87829-0.94667I$ $b=-0.641473+1.171170I$	$-0.09550+5.07949I$	$3.41161-6.03160I$
$u=\ \ 1.296440-0.017393I$ $a=\ \ 1.87829+0.94667I$ $b=-0.641473-1.171170I$	$-0.09550-5.07949I$	$3.41161+6.03160I$
$u=-0.380635+0.432969I$ $a=-0.626410-0.579486I$ $b=\ \ 1.05773-0.95107I$	$0.39343-3.18951I$	$2.48922+8.07163I$
$u=-0.380635-0.432969I$ $a=-0.626410+0.579486I$ $b=\ \ 1.05773+0.95107I$	$0.39343+3.18951I$	$2.48922-8.07163I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.46863 + 0.19401I$ $a = -2.06395 - 0.17330I$ $b = 1.66804 + 1.07306I$	$6.49554 + 5.64721I$	$4.24800 - 5.28734I$
$u = 1.46863 - 0.19401I$ $a = -2.06395 + 0.17330I$ $b = 1.66804 - 1.07306I$	$6.49554 - 5.64721I$	$4.24800 + 5.28734I$
$u = -1.50073 + 0.18378I$ $a = -1.184810 + 0.076406I$ $b = 0.662272 - 0.912764I$	$3.66769 - 6.66143I$	$4.22453 + 5.17747I$
$u = -1.50073 - 0.18378I$ $a = -1.184810 - 0.076406I$ $b = 0.662272 + 0.912764I$	$3.66769 + 6.66143I$	$4.22453 - 5.17747I$
$u = 0.395860 + 0.034188I$ $a = -2.66560 - 0.32394I$ $b = -0.183573 + 0.870910I$	$-3.35478 + 5.00709I$	$1.93752 - 5.36803I$
$u = 0.395860 - 0.034188I$ $a = -2.66560 + 0.32394I$ $b = -0.183573 - 0.870910I$	$-3.35478 - 5.00709I$	$1.93752 + 5.36803I$
$u = 1.65580$ $a = -1.61733$ $b = 0.760820$	9.97638	-80.3960

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17}-2u^{16}+\cdots-4u-1)(u^{88}+9u^{87}+\cdots-24u-1)$
c_2	$(u^{17}-3u^{15}+\cdots+2u+1)(u^{88}-u^{87}+\cdots+1530u-73)$
c_3	$(u^{17}+9u^{16}+\cdots+12u+1)(u^{88}+2u^{87}+\cdots+1392u+133)$
c_4	$(u^{17}-8u^{16}+\cdots+10u-1)(u^{88}-3u^{87}+\cdots+6998u+2363)$
c_5	$(u^{17}-2u^{16}+\cdots+2u-1)(u^{88}-3u^{87}+\cdots-12u-1)$
c_6	$(u^{17}-2u^{16}+\cdots+2u-1)(u^{88}-u^{87}+\cdots+9888u-1216)$
c_7	$(u^{17}-u^{16}+\cdots+u-1)(u^{88}+26u^{86}+\cdots+35u-19)$
c_8, c_9	$(u^{17}+2u^{16}+\cdots+2u+1)(u^{88}-3u^{87}+\cdots-12u-1)$
c_{10}	$(u^{17}+4u^{16}+\cdots+2u-1)(u^{88}+5u^{87}+\cdots+32u-1)$
c_{11}	$(u^{17}+u^{16}+\cdots+u+1)(u^{88}+26u^{86}+\cdots+35u-19)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17}-14y^{16}+\cdots+12y-1)(y^{88}-15y^{87}+\cdots+48y+1)$
c_2	$(y^{17}-6y^{16}+\cdots-8y^2-1)(y^{88}+17y^{87}+\cdots+439816y+5329)$
c_3	$(y^{17}+y^{16}+\cdots+18y-1)(y^{88}-16y^{87}+\cdots-1724598y+17689)$
c_4	$(y^{17}+2y^{16}+\cdots+4y-1)$ $\cdot(y^{88}-23y^{87}+\cdots-69312708y+5583769)$
c_5, c_8, c_9	$(y^{17}-18y^{16}+\cdots+18y-1)(y^{88}-87y^{87}+\cdots+6y+1)$
c_6	$(y^{17}+6y^{16}+\cdots+12y-1)$ $\cdot(y^{88}-7y^{87}+\cdots-41894912y+1478656)$
c_7, c_{11}	$(y^{17}+9y^{16}+\cdots-13y-1)(y^{88}+52y^{87}+\cdots+8009y+361)$
c_{10}	$(y^{17}-12y^{16}+\cdots+14y-1)(y^{88}-9y^{87}+\cdots-42y+1)$