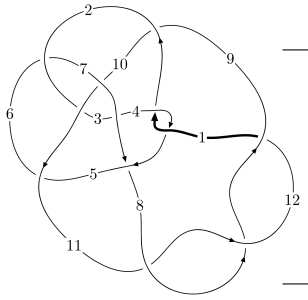
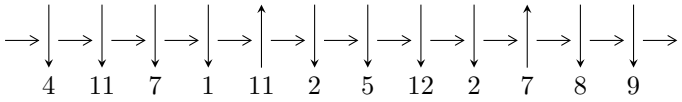
$12n_{0734}$ $(K12n_{0734})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$\underset{c_2}{2,11} \to \underset{c_3}{3,7} \to \underset{c_1}{4} \longrightarrow \underset{c_6}{1} \longrightarrow \underset{c_5}{6} \longrightarrow \underset{c_7}{5} \longrightarrow \underset{c_{10}}{8} \to \underset{c_9}{10} \to \underset{c_{12}}{9} \to 12 \twoheadrightarrow c_4, c_8, c_{11}$$

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

$$\begin{aligned} I_1^u = \langle & 5.93981 \times 10^{179} u^{58} + 4.60320 \times 10^{178} u^{57} + \cdots + 2.85555 \times 10^{182} b + 1.72195 \times 10^{182}, \\ & 8.20063 \times 10^{181} u^{58} + 3.02434 \times 10^{181} u^{57} + \cdots + 1.74189 \times 10^{184} a - 1.14409 \times 10^{185}, \\ & u^{59} + u^{58} + \cdots + 386u + 244 \rangle \\ I_2^u = \langle & -659021u^{16} - 928037u^{15} + \cdots + 963035b - 442908, \\ & - 299324u^{16} - 63918u^{15} + \cdots + 963035a - 1083657,\ u^{17} + 4u^{15} + \cdots + 2u - 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 76 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. $\boldsymbol{I_1^u = \langle 5.94 \times 10^{179} u^{58} + 4.60 \times 10^{178} u^{57} + \cdots + 2.86 \times 10^{182} b + 1.72 \times 10^{182},\ 8.20 \times 10^{181} u^{58} + 3.02 \times 10^{181} u^{57} + \cdots + 1.74 \times 10^{184} a - 1.14 \times 10^{185},\ u^{59} + u^{58} + \cdots + 386u + 244 \rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.00470791u^{58} - 0.00173624u^{57} + \cdots + 17.8688u + 6.56814 \\ -0.00208009u^{58} - 0.000161202u^{57} + \cdots + 5.50343u - 0.603017 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.00503808u^{58} + 0.00882567u^{57} + \cdots + 27.3491u + 5.92936 \\ 0.00537009u^{58} + 0.00348580u^{57} + \cdots + 2.87966u + 2.25203 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.00261013u^{58} - 0.00116710u^{57} + \cdots + 12.3671u + 6.44607 \\ 0.000615613u^{58} + 0.00164482u^{57} + \cdots + 1.81783u + 0.0786874 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -0.00678800u^{58} - 0.00189745u^{57} + \cdots + 23.3723u + 5.96512 \\ -0.00208009u^{58} - 0.000161202u^{57} + \cdots + 5.50343u - 0.603017 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.00678800u^{58} - 0.00189745u^{57} + \cdots + 23.3723u + 5.96512 \\ -0.00278773u^{58} - 0.000245605u^{57} + \cdots + 5.27195u - 1.79631 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.00902786u^{58} - 0.0115764u^{57} + \cdots - 31.0968u - 6.01473 \\ -0.00179571u^{58} - 0.00195730u^{57} + \cdots + 3.71563u + 2.05425 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.00972417u^{58} - 0.0103974u^{57} + \cdots - 24.0644u - 0.306697 \\ -0.00277555u^{58} - 0.00259612u^{57} + \cdots + 0.647903u + 1.39356 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.0124997u^{58} - 0.0129935u^{57} + \cdots - 23.4165u + 1.08686 \\ -0.00277555u^{58} - 0.00259612u^{57} + \cdots + 0.647903u + 1.39356 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.0159522u^{58} + 0.0183199u^{57} + \cdots + 42.8385u + 5.19776 \\ 0.00330850u^{58} + 0.00353952u^{57} + \cdots - 2.63085u - 2.59425 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.0183261u^{58} + 0.0259595u^{57} + \cdots + 60.0353u + 1.14679$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{59} - 6u^{58} + \cdots - 493u + 47$
c_2	$u^{59} + u^{58} + \cdots + 386u + 244$
c_3	$u^{59} - 2u^{58} + \cdots + 1473477u + 77047$
c_5	$u^{59} - 7u^{57} + \cdots - 2336u + 439$
c_6	$u^{59} - 2u^{58} + \cdots - 4481u + 1539$
c_7	$u^{59} - 15u^{58} + \cdots + 72u - 4$
c_8, c_{11}, c_{12}	$u^{59} + 6u^{58} + \cdots + 2u + 1$
c_9	$u^{59} - 2u^{58} + \cdots + 2746719u + 257651$
c_{10}	$u^{59} + 2u^{58} + \cdots - 394u + 149$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{59} + 40y^{58} + \cdots - 8213y - 2209$
c_2	$y^{59} + 73y^{58} + \cdots - 1655140y - 59536$
c_3	$y^{59} + 38y^{58} + \cdots + 2137083856067y - 5936240209$
c_5	$y^{59} - 14y^{58} + \cdots + 6258510y - 192721$
c_6	$y^{59} + 76y^{58} + \cdots + 38959813y - 2368521$
c_7	$y^{59} - y^{58} + \cdots + 1240y - 16$
c_8, c_{11}, c_{12}	$y^{59} - 58y^{58} + \cdots - 112y - 1$
c_9	$y^{59} + 44y^{58} + \cdots - 140722482637y - 66384037801$
c_{10}	$y^{59} - 82y^{58} + \cdots + 910368y - 22201$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.688572 + 0.799657I$ $a = 0.403897 - 0.429993I$ $b = 1.319730 + 0.029746I$	$-5.51450 + 1.11046I$	$-8.00000 + 0.I$
$u = 0.688572 - 0.799657I$ $a = 0.403897 + 0.429993I$ $b = 1.319730 - 0.029746I$	$-5.51450 - 1.11046I$	$-8.00000 + 0.I$
$u = -0.458695 + 0.730749I$ $a = 0.541463 + 0.804889I$ $b = -0.180739 + 0.082078I$	$-1.92960 - 1.37995I$	$-8.00000 + 0.I$
$u = -0.458695 - 0.730749I$ $a = 0.541463 - 0.804889I$ $b = -0.180739 - 0.082078I$	$-1.92960 + 1.37995I$	$-8.00000 + 0.I$
$u = -0.263108 + 0.751221I$ $a = 0.543851 - 0.807976I$ $b = -1.51685 - 0.53259I$	$-2.99977 - 6.73475I$	$-8.47764 + 5.04092I$
$u = -0.263108 - 0.751221I$ $a = 0.543851 + 0.807976I$ $b = -1.51685 + 0.53259I$	$-2.99977 + 6.73475I$	$-8.47764 - 5.04092I$
$u = 1.248950 + 0.106397I$ $a = 0.205733 - 0.100828I$ $b = 0.629743 - 0.803792I$	$-6.50171 - 1.29569I$	0
$u = 1.248950 - 0.106397I$ $a = 0.205733 + 0.100828I$ $b = 0.629743 + 0.803792I$	$-6.50171 + 1.29569I$	0
$u = -0.739660$ $a = 0.474782$ $b = 0.311743$	-0.974720	-8.42250
$u = 0.839226 + 1.015310I$ $a = 0.149446 + 1.228250I$ $b = 0.449432 - 0.919016I$	$-0.28824 + 3.32242I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.839226 - 1.015310I$ $a = 0.149446 - 1.228250I$ $b = 0.449432 + 0.919016I$	$-0.28824 - 3.32242I$	0
$u = -0.621367 + 0.148005I$ $a = -1.42430 + 1.76510I$ $b = 0.411559 - 0.511446I$	$1.67239 - 2.74169I$	$-5.07241 + 2.45099I$
$u = -0.621367 - 0.148005I$ $a = -1.42430 - 1.76510I$ $b = 0.411559 + 0.511446I$	$1.67239 + 2.74169I$	$-5.07241 - 2.45099I$
$u = 0.087984 + 1.365300I$ $a = -0.68821 + 1.42066I$ $b = 0.72763 - 1.73513I$	$4.68182 + 3.93350I$	0
$u = 0.087984 - 1.365300I$ $a = -0.68821 - 1.42066I$ $b = 0.72763 + 1.73513I$	$4.68182 - 3.93350I$	0
$u = -0.581835 + 0.198470I$ $a = 0.560192 + 0.121209I$ $b = 0.808875 + 0.059387I$	$-1.109630 - 0.030440I$	$-3.69972 - 2.46994I$
$u = -0.581835 - 0.198470I$ $a = 0.560192 - 0.121209I$ $b = 0.808875 - 0.059387I$	$-1.109630 + 0.030440I$	$-3.69972 + 2.46994I$
$u = 1.233130 + 0.644677I$ $a = -0.214064 - 0.343399I$ $b = -0.159650 + 0.596710I$	$2.01774 - 3.63891I$	0
$u = 1.233130 - 0.644677I$ $a = -0.214064 + 0.343399I$ $b = -0.159650 - 0.596710I$	$2.01774 + 3.63891I$	0
$u = 0.347764 + 0.493636I$ $a = 0.498777 - 0.775233I$ $b = -0.612320 - 0.444426I$	$3.01321 - 1.32546I$	$-3.35867 + 3.08161I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.347764 - 0.493636I$ $a = 0.498777 + 0.775233I$ $b = -0.612320 + 0.444426I$	$3.01321 + 1.32546I$	$-3.35867 - 3.08161I$
$u = 0.162857 + 0.510371I$ $a = 0.524139 + 0.787944I$ $b = -1.157400 + 0.627551I$	$2.64810 + 4.11685I$	$-1.10051 - 4.77583I$
$u = 0.162857 - 0.510371I$ $a = 0.524139 - 0.787944I$ $b = -1.157400 - 0.627551I$	$2.64810 - 4.11685I$	$-1.10051 + 4.77583I$
$u = -0.508925 + 0.043509I$ $a = 0.515449 - 0.759347I$ $b = -0.785003 - 0.994869I$	$0.49587 - 2.96712I$	$-13.62136 + 1.03116I$
$u = -0.508925 - 0.043509I$ $a = 0.515449 + 0.759347I$ $b = -0.785003 + 0.994869I$	$0.49587 + 2.96712I$	$-13.62136 - 1.03116I$
$u = -0.07223 + 1.50932I$ $a = -0.418282 - 1.323470I$ $b = 0.35654 + 2.00494I$	$9.26707 - 1.87361I$	0
$u = -0.07223 - 1.50932I$ $a = -0.418282 + 1.323470I$ $b = 0.35654 - 2.00494I$	$9.26707 + 1.87361I$	0
$u = -1.38402 + 0.62460I$ $a = -0.178185 + 0.088283I$ $b = -0.290901 - 0.757014I$	$-3.68149 + 7.78233I$	0
$u = -1.38402 - 0.62460I$ $a = -0.178185 - 0.088283I$ $b = -0.290901 + 0.757014I$	$-3.68149 - 7.78233I$	0
$u = -0.61536 + 1.42764I$ $a = 0.209800 + 0.892422I$ $b = -0.504159 - 0.898602I$	$-1.35128 - 2.05230I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.61536-1.42764I$ $a=\ \ 0.209800-0.892422I$ $b=-0.504159+0.898602I$	$-1.35128+2.05230I$	0
$u=-0.03547+1.56073I$ $a=-0.16653+1.40982I$ $b=\ \ 0.15839-2.37746I$	$5.41563+0.15050I$	0
$u=-0.03547-1.56073I$ $a=-0.16653-1.40982I$ $b=\ \ 0.15839+2.37746I$	$5.41563-0.15050I$	0
$u=\ \ 0.012840+0.401825I$ $a=\ \ 2.04510-0.24675I$ $b=\ \ 0.128940-0.325332I$	$-0.635898+1.219670I$	$-5.93174-6.56340I$
$u=\ \ 0.012840-0.401825I$ $a=\ \ 2.04510+0.24675I$ $b=\ \ 0.128940+0.325332I$	$-0.635898-1.219670I$	$-5.93174+6.56340I$
$u=-0.24053+1.61358I$ $a=\ \ 0.196266+1.036510I$ $b=-0.298352-1.176050I$	$-1.07758-1.94960I$	0
$u=-0.24053-1.61358I$ $a=\ \ 0.196266-1.036510I$ $b=-0.298352+1.176050I$	$-1.07758+1.94960I$	0
$u=\ \ 0.257140+0.250978I$ $a=-4.22445-1.73413I$ $b=\ \ 0.657455+0.553233I$	$-4.50098+6.76243I$	$-7.82043-2.26611I$
$u=\ \ 0.257140-0.250978I$ $a=-4.22445+1.73413I$ $b=\ \ 0.657455-0.553233I$	$-4.50098-6.76243I$	$-7.82043+2.26611I$
$u=\ \ 0.089742+0.315657I$ $a=\ \ 3.52034+1.67931I$ $b=\ \ 0.042107+0.701564I$	$-6.63125-3.43002I$	$-9.55405+4.93953I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.089742 - 0.315657I$ $a = 3.52034 - 1.67931I$ $b = 0.042107 - 0.701564I$	$-6.63125 + 3.43002I$	$-9.55405 - 4.93953I$
$u = 0.27509 + 1.69404I$ $a = 0.131857 - 1.009020I$ $b = -0.04091 + 1.65776I$	$5.77005 - 0.91747I$	0
$u = 0.27509 - 1.69404I$ $a = 0.131857 + 1.009020I$ $b = -0.04091 - 1.65776I$	$5.77005 + 0.91747I$	0
$u = -0.55649 + 1.67541I$ $a = -0.476397 - 0.752620I$ $b = -0.44696 + 1.44326I$	$5.71622 + 1.79000I$	0
$u = -0.55649 - 1.67541I$ $a = -0.476397 + 0.752620I$ $b = -0.44696 - 1.44326I$	$5.71622 - 1.79000I$	0
$u = 0.33397 + 1.77298I$ $a = -0.357603 + 0.882444I$ $b = -0.27226 - 1.80631I$	$10.07080 + 0.99686I$	0
$u = 0.33397 - 1.77298I$ $a = -0.357603 - 0.882444I$ $b = -0.27226 + 1.80631I$	$10.07080 - 0.99686I$	0
$u = -0.35811 + 1.82702I$ $a = 0.104148 + 0.922751I$ $b = 0.29686 - 1.79295I$	$6.29629 + 5.09762I$	0
$u = -0.35811 - 1.82702I$ $a = 0.104148 - 0.922751I$ $b = 0.29686 + 1.79295I$	$6.29629 - 5.09762I$	0
$u = -0.41543 + 1.87910I$ $a = -0.025261 - 1.080380I$ $b = -0.56533 + 1.90237I$	$4.8121 + 14.9606I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.41543-1.87910I$ $a=-0.025261+1.080380I$ $b=-0.56533-1.90237I$	$4.8121-14.9606I$	0
$u=\ \ 0.48235+1.86660I$ $a=\ \ 0.129952-0.874599I$ $b=\ \ 0.56255+1.76211I$	$0.40098-8.52654I$	0
$u=\ \ 0.48235-1.86660I$ $a=\ \ 0.129952+0.874599I$ $b=\ \ 0.56255-1.76211I$	$0.40098+8.52654I$	0
$u=\ \ 0.37322+1.91053I$ $a=-0.000180+1.063390I$ $b=-0.40489-1.80934I$	$10.8864-10.4301I$	0
$u=\ \ 0.37322-1.91053I$ $a=-0.000180-1.063390I$ $b=-0.40489+1.80934I$	$10.8864+10.4301I$	0
$u=-0.14111+1.94684I$ $a=-0.183559-0.886815I$ $b=-0.20310+2.12857I$	$6.56818-3.53126I$	0
$u=-0.14111-1.94684I$ $a=-0.183559+0.886815I$ $b=-0.20310-2.12857I$	$6.56818+3.53126I$	0
$u=-0.31032+1.96443I$ $a=\ \ 0.035948-1.052330I$ $b=-0.26686+1.60207I$	$9.61428+4.66443I$	0
$u=-0.31032-1.96443I$ $a=\ \ 0.035948+1.052330I$ $b=-0.26686-1.60207I$	$9.61428-4.66443I$	0

II.

$\boldsymbol{I_2^u = \langle -6.59\times 10^5 u^{16} - 9.28\times 10^5 u^{15} + \cdots + 9.63\times 10^5 b - 4.43\times 10^5,\ -2.99\times 10^5 u^{16} - 6.39\times 10^4 u^{15} + \cdots + 9.63\times 10^5 a - 1.08\times 10^6,\ u^{17} + 4u^{15} + \cdots + 2u - 1\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.310813u^{16} + 0.0663714u^{15} + \cdots - 1.72241u + 1.12525 \\ 0.684317u^{16} + 0.963659u^{15} + \cdots - 1.05249u + 0.459909 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.310813u^{16} - 0.0663714u^{15} + \cdots + 1.72241u + 0.874748 \\ 0.310813u^{16} + 0.0663714u^{15} + \cdots - 1.72241u + 1.12525 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.354199u^{16} + 0.713554u^{15} + \cdots + 0.491844u - 0.731715 \\ -0.995130u^{16} - 1.03003u^{15} + \cdots + 2.77490u - 0.585160 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.995130u^{16} + 1.03003u^{15} + \cdots - 2.77490u + 1.58516 \\ 0.684317u^{16} + 0.963659u^{15} + \cdots - 1.05249u + 0.459909 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.995130u^{16} + 1.03003u^{15} + \cdots - 2.77490u + 1.58516 \\ 1.48635u^{16} + 1.77288u^{15} + \cdots - 2.11742u + 1.48994 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1.87286u^{16} + 0.769039u^{15} + \cdots - 2.81009u + 2.81349 \\ 2.27571u^{16} + 1.58348u^{15} + \cdots - 2.69896u + 1.66310 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.03003u^{16} - 0.802032u^{15} + \cdots + 1.40510u - 0.995130 \\ -0.742846u^{16} - 0.862875u^{15} + \cdots + 1.07766u - 0.491219 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -1.77288u^{16} - 1.66491u^{15} + \cdots + 2.48276u - 1.48635 \\ -0.742846u^{16} - 0.862875u^{15} + \cdots + 1.07766u - 0.491219 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -1.08780u^{16} - 0.279503u^{15} + \cdots + 3.29700u - 2.89828 \\ -0.917296u^{16} - 0.947080u^{15} + \cdots + 2.92780u - 0.487479 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{48633}{963035}u^{16} - \frac{201324}{963035}u^{15} + \cdots + \frac{2698689}{963035}u - \frac{5677206}{963035}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 5u^{16} + \cdots + 24u - 5$
c_2	$u^{17} + 4u^{15} + \cdots + 2u - 1$
c_3	$u^{17} - 3u^{16} + \cdots + 6u - 1$
c_4	$u^{17} + 5u^{16} + \cdots + 24u + 5$
c_5	$u^{17} - u^{16} + \cdots - u - 1$
c_6	$u^{17} + u^{16} + \cdots - 3u^2 + 1$
c_7	$u^{17} + 2u^{16} + \cdots - 3u - 1$
c_8	$u^{17} + u^{16} + \cdots - u - 1$
c_9	$u^{17} - u^{16} + \cdots + 6u - 1$
c_{10}	$u^{17} + 5u^{16} + \cdots + 23u + 5$
c_{11}, c_{12}	$u^{17} - u^{16} + \cdots - u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{17} + 11y^{16} + \cdots - 144y - 25$
c_2	$y^{17} + 8y^{16} + \cdots + 2y - 1$
c_3	$y^{17} - 3y^{16} + \cdots + 4y - 1$
c_5	$y^{17} - 3y^{16} + \cdots - 17y - 1$
c_6	$y^{17} + 15y^{16} + \cdots + 6y - 1$
c_7	$y^{17} - 6y^{16} + \cdots + 19y - 1$
c_8, c_{11}, c_{12}	$y^{17} - 19y^{16} + \cdots + 17y - 1$
c_9	$y^{17} + 15y^{16} + \cdots + 40y - 1$
c_{10}	$y^{17} - 11y^{16} + \cdots + 29y - 25$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.943516 + 0.217153I$ $a = 0.305598 + 1.090860I$ $b = -0.402187 - 0.424132I$	$1.02446 - 4.01073I$	$-9.58562 + 8.03441I$
$u = 0.943516 - 0.217153I$ $a = 0.305598 - 1.090860I$ $b = -0.402187 + 0.424132I$	$1.02446 + 4.01073I$	$-9.58562 - 8.03441I$
$u = -0.783718 + 0.432402I$ $a = 0.531720 - 1.180930I$ $b = -0.643590 - 0.074918I$	$-5.37250 + 7.81586I$	$-13.0076 - 6.4890I$
$u = -0.783718 - 0.432402I$ $a = 0.531720 + 1.180930I$ $b = -0.643590 + 0.074918I$	$-5.37250 - 7.81586I$	$-13.0076 + 6.4890I$
$u = 0.817030 + 0.365305I$ $a = 0.934805 + 0.650996I$ $b = 0.515260 + 0.566112I$	$-7.37347 + 2.42280I$	$-13.78303 - 1.70443I$
$u = 0.817030 - 0.365305I$ $a = 0.934805 - 0.650996I$ $b = 0.515260 - 0.566112I$	$-7.37347 - 2.42280I$	$-13.78303 + 1.70443I$
$u = 0.780176$ $a = 1.11145$ $b = 1.12388$	-4.50362	-7.25140
$u = -0.628918 + 0.321070I$ $a = 0.752042 - 0.357337I$ $b = 0.685836 - 0.180128I$	$-1.45511 - 0.44387I$	$-13.3170 + 6.4333I$
$u = -0.628918 - 0.321070I$ $a = 0.752042 + 0.357337I$ $b = 0.685836 + 0.180128I$	$-1.45511 + 0.44387I$	$-13.3170 - 6.4333I$
$u = 0.218331 + 0.434310I$ $a = 0.162367 - 1.304580I$ $b = -0.837927 + 0.880938I$	$1.31011 + 3.21669I$	$-4.26897 - 3.76271I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.218331 - 0.434310I$ $a = 0.162367 + 1.304580I$ $b = -0.837927 - 0.880938I$	$1.31011 - 3.21669I$	$-4.26897 + 3.76271I$
$u = -0.16034 + 1.55364I$ $a = -0.412465 - 1.224420I$ $b = 0.08339 + 2.23448I$	$5.22091 - 1.95313I$	$-7.30585 + 2.22273I$
$u = -0.16034 - 1.55364I$ $a = -0.412465 + 1.224420I$ $b = 0.08339 - 2.23448I$	$5.22091 + 1.95313I$	$-7.30585 - 2.22273I$
$u = 0.08691 + 1.63349I$ $a = -0.307317 + 1.147970I$ $b = 0.08394 - 1.85355I$	$8.57737 + 1.44400I$	$-6.54282 + 0.32634I$
$u = 0.08691 - 1.63349I$ $a = -0.307317 - 1.147970I$ $b = 0.08394 + 1.85355I$	$8.57737 - 1.44400I$	$-6.54282 - 0.32634I$
$u = -0.88290 + 1.41099I$ $a = -0.022475 - 0.754741I$ $b = 0.453346 + 0.788668I$	$-1.32490 - 2.54139I$	$-11.5634 + 9.6256I$
$u = -0.88290 - 1.41099I$ $a = -0.022475 + 0.754741I$ $b = 0.453346 - 0.788668I$	$-1.32490 + 2.54139I$	$-11.5634 - 9.6256I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17}-5u^{16}+\cdots+24u-5)(u^{59}-6u^{58}+\cdots-493u+47)$
c_2	$(u^{17}+4u^{15}+\cdots+2u-1)(u^{59}+u^{58}+\cdots+386u+244)$
c_3	$(u^{17}-3u^{16}+\cdots+6u-1)(u^{59}-2u^{58}+\cdots+1473477u+77047)$
c_4	$(u^{17}+5u^{16}+\cdots+24u+5)(u^{59}-6u^{58}+\cdots-493u+47)$
c_5	$(u^{17}-u^{16}+\cdots-u-1)(u^{59}-7u^{57}+\cdots-2336u+439)$
c_6	$(u^{17}+u^{16}+\cdots-3u^2+1)(u^{59}-2u^{58}+\cdots-4481u+1539)$
c_7	$(u^{17}+2u^{16}+\cdots-3u-1)(u^{59}-15u^{58}+\cdots+72u-4)$
c_8	$(u^{17}+u^{16}+\cdots-u-1)(u^{59}+6u^{58}+\cdots+2u+1)$
c_9	$(u^{17}-u^{16}+\cdots+6u-1)(u^{59}-2u^{58}+\cdots+2746719u+257651)$
c_{10}	$(u^{17}+5u^{16}+\cdots+23u+5)(u^{59}+2u^{58}+\cdots-394u+149)$
c_{11}, c_{12}	$(u^{17}-u^{16}+\cdots-u+1)(u^{59}+6u^{58}+\cdots+2u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$(y^{17}+11y^{16}+\cdots-144y-25)(y^{59}+40y^{58}+\cdots-8213y-2209)$
c_2	$(y^{17}+8y^{16}+\cdots+2y-1)(y^{59}+73y^{58}+\cdots-1655140y-59536)$
c_3	$(y^{17}-3y^{16}+\cdots+4y-1)$ $\cdot(y^{59}+38y^{58}+\cdots+2137083856067y-5936240209)$
c_5	$(y^{17}-3y^{16}+\cdots-17y-1)(y^{59}-14y^{58}+\cdots+6258510y-192721)$
c_6	$(y^{17}+15y^{16}+\cdots+6y-1)$ $\cdot(y^{59}+76y^{58}+\cdots+38959813y-2368521)$
c_7	$(y^{17}-6y^{16}+\cdots+19y-1)(y^{59}-y^{58}+\cdots+1240y-16)$
c_8, c_{11}, c_{12}	$(y^{17}-19y^{16}+\cdots+17y-1)(y^{59}-58y^{58}+\cdots-112y-1)$
c_9	$(y^{17}+15y^{16}+\cdots+40y-1)$ $\cdot(y^{59}+44y^{58}+\cdots-140722482637y-66384037801)$
c_{10}	$(y^{17}-11y^{16}+\cdots+29y-25)(y^{59}-82y^{58}+\cdots+910368y-22201)$