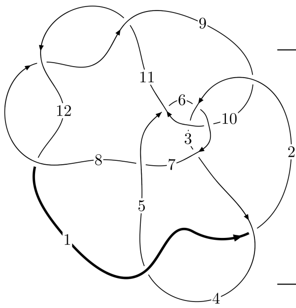
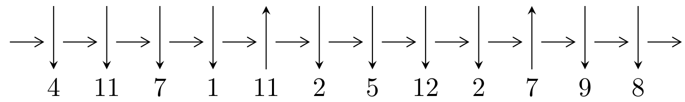
$12n_{0735}$ ($K12n_{0735}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 1.47491 \times 10^{161} u^{52} - 1.00334 \times 10^{161} u^{51} + \cdots + 6.59902 \times 10^{163} b - 4.00631 \times 10^{164}, \\
& 1.55727 \times 10^{164} u^{52} - 4.68658 \times 10^{163} u^{51} + \cdots + 6.14369 \times 10^{166} a - 7.33068 \times 10^{167}, \\
& u^{53} - u^{52} + \cdots + 1260u - 931 \rangle \\
I_2^u = \langle & -1092u^{17} + 1979u^{16} + \cdots + 1579b - 2918,\ -862u^{17} - 922u^{16} + \cdots + 1579a + 3868, \\
& u^{18} + 6u^{16} - u^{15} + 10u^{14} - 4u^{13} + 2u^{12} - 4u^{11} + u^{10} - 4u^9 + 5u^8 - 5u^7 - 4u^6 + 6u^5 + 8u^4 - 3u^3 - 4u^2 + 1
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 71 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. $\boldsymbol{I_1^u = \langle 1.47 \times 10^{161} u^{52} - 1.00 \times 10^{161} u^{51} + \cdots + 6.60 \times 10^{163} b - 4.01 \times 10^{164},\ 1.56 \times 10^{164} u^{52} - 4.69 \times 10^{163} u^{51} + \cdots + 6.14 \times 10^{166} a - 7.33 \times 10^{167},\ u^{53} - u^{52} + \cdots + 1260u - 931 \rangle}$

(i) Arc colorings

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

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

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

$$a_7 = \begin{pmatrix} -0.00253474u^{52} + 0.000762828u^{51} + \cdots - 12.6342u + 11.9320 \\ -0.00223505u^{52} + 0.00152044u^{51} + \cdots - 5.41272u + 6.07107 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.000307309u^{52} - 0.00341411u^{51} + \cdots - 25.6189u + 13.2717 \\ 0.00388609u^{52} - 0.00479985u^{51} + \cdots - 9.07382u - 1.92407 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.000445713u^{52} - 0.00127751u^{51} + \cdots - 7.34876u + 4.21132 \\ 0.000455151u^{52} + 0.00111184u^{51} + \cdots + 16.0717u - 6.35644 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -0.00476979u^{52} + 0.00228326u^{51} + \cdots - 18.0470u + 18.0031 \\ -0.00223505u^{52} + 0.00152044u^{51} + \cdots - 5.41272u + 6.07107 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.00476979u^{52} + 0.00228326u^{51} + \cdots - 18.0470u + 18.0031 \\ -0.000888908u^{52} + 0.000380323u^{51} + \cdots - 6.72037u + 3.75612 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.00734689u^{52} - 0.00837266u^{51} + \cdots - 33.0209u + 0.0462951 \\ 0.00168842u^{52} - 0.00168620u^{51} + \cdots - 2.75207u - 1.24109 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.00903531u^{52} - 0.0100589u^{51} + \cdots - 35.7730u - 1.19480 \\ 0.00168842u^{52} - 0.00168620u^{51} + \cdots - 2.75207u - 1.24109 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.000777537u^{52} - 0.00530471u^{51} + \cdots - 33.5819u + 14.2472 \\ 0.00375707u^{52} - 0.00500103u^{51} + \cdots - 18.9354u + 2.02528 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.00441879u^{52} + 0.00343811u^{51} + \cdots - 10.9752u + 9.12520 \\ 0.00140540u^{52} - 0.00443957u^{51} + \cdots - 26.4019u + 9.54110 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.00251009u^{52} - 0.00470979u^{51} + \cdots + 12.2699u + 11.1088$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{53} - 5u^{52} + \cdots - 82u + 7$
c_2	$u^{53} + u^{52} + \cdots + 1260u + 931$
c_3	$u^{53} + 4u^{52} + \cdots + 208100u + 20921$
c_5	$u^{53} - 24u^{51} + \cdots - 469428u + 50191$
c_6	$u^{53} - u^{52} + \cdots + 1059u + 259$
c_7	$u^{53} - 12u^{52} + \cdots + 2540u - 167$
c_8, c_{11}, c_{12}	$u^{53} - 4u^{52} + \cdots - 2u + 1$
c_9	$u^{53} - 2u^{52} + \cdots + 7670694u + 814939$
c_{10}	$u^{53} - 39u^{51} + \cdots - 634u + 389$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{53} + 45y^{52} + \cdots - 1746y - 49$
c_2	$y^{53} + 71y^{52} + \cdots - 25215890y - 866761$
c_3	$y^{53} + 36y^{52} + \cdots + 38130549598y - 437688241$
c_5	$y^{53} - 48y^{52} + \cdots + 192928447348y - 2519136481$
c_6	$y^{53} + 79y^{52} + \cdots - 2126897y - 67081$
c_7	$y^{53} + 24y^{52} + \cdots + 4177728y - 27889$
c_8, c_{11}, c_{12}	$y^{53} + 60y^{52} + \cdots - 122y - 1$
c_9	$y^{53} + 64y^{52} + \cdots - 1343304277888y - 664125573721$
c_{10}	$y^{53} - 78y^{52} + \cdots + 6363770y - 151321$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.840718 + 0.606406I$ $a = 0.277208 + 0.453633I$ $b = -0.145083 - 0.433241I$	$1.63830 + 2.38162I$	$-1.12828 - 6.54565I$
$u = -0.840718 - 0.606406I$ $a = 0.277208 - 0.453633I$ $b = -0.145083 + 0.433241I$	$1.63830 - 2.38162I$	$-1.12828 + 6.54565I$
$u = 0.736753 + 0.485579I$ $a = -1.38812 - 0.66054I$ $b = 0.292820 + 0.295820I$	$2.58306 + 2.49161I$	$-3.55198 - 2.75069I$
$u = 0.736753 - 0.485579I$ $a = -1.38812 + 0.66054I$ $b = 0.292820 - 0.295820I$	$2.58306 - 2.49161I$	$-3.55198 + 2.75069I$
$u = 0.697923 + 0.459418I$ $a = 0.483665 - 0.766875I$ $b = -0.160668 - 0.729369I$	$10.10000 - 0.16086I$	$-2.21036 + 2.02057I$
$u = 0.697923 - 0.459418I$ $a = 0.483665 + 0.766875I$ $b = -0.160668 + 0.729369I$	$10.10000 + 0.16086I$	$-2.21036 - 2.02057I$
$u = 0.171745 + 0.772459I$ $a = 0.696403 + 1.081210I$ $b = 0.713010 - 0.636217I$	$1.51102 - 0.59997I$	$-4.11605 - 0.89073I$
$u = 0.171745 - 0.772459I$ $a = 0.696403 - 1.081210I$ $b = 0.713010 + 0.636217I$	$1.51102 + 0.59997I$	$-4.11605 + 0.89073I$
$u = -1.101000 + 0.528901I$ $a = 0.282299 + 0.260750I$ $b = 1.182230 + 0.556160I$	$4.84724 + 0.39365I$	0
$u = -1.101000 - 0.528901I$ $a = 0.282299 - 0.260750I$ $b = 1.182230 - 0.556160I$	$4.84724 - 0.39365I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.759075$ $a = 0.460004$ $b = 0.368973$	-0.996264	-8.17350
$u = 0.473961 + 0.564197I$ $a = 0.548650 + 0.774800I$ $b = -1.39479 + 0.96442I$	$9.46781 + 5.75315I$	$-1.15678 - 2.42893I$
$u = 0.473961 - 0.564197I$ $a = 0.548650 - 0.774800I$ $b = -1.39479 - 0.96442I$	$9.46781 - 5.75315I$	$-1.15678 + 2.42893I$
$u = -0.348641 + 0.604316I$ $a = -2.40424 - 0.21358I$ $b = 0.712433 - 0.129566I$	$9.59529 - 6.13893I$	$-0.27184 + 2.46024I$
$u = -0.348641 - 0.604316I$ $a = -2.40424 + 0.21358I$ $b = 0.712433 + 0.129566I$	$9.59529 + 6.13893I$	$-0.27184 - 2.46024I$
$u = -1.118550 + 0.674070I$ $a = -0.593125 + 0.348906I$ $b = -0.110895 - 0.395203I$	$2.85176 + 2.98739I$	0
$u = -1.118550 - 0.674070I$ $a = -0.593125 - 0.348906I$ $b = -0.110895 + 0.395203I$	$2.85176 - 2.98739I$	0
$u = 0.578768 + 0.199265I$ $a = 0.562060 - 0.121794I$ $b = 0.809632 - 0.057928I$	$-1.109960 + 0.030571I$	$-3.57381 + 2.50459I$
$u = 0.578768 - 0.199265I$ $a = 0.562060 + 0.121794I$ $b = 0.809632 + 0.057928I$	$-1.109960 - 0.030571I$	$-3.57381 - 2.50459I$
$u = 0.02618 + 1.45150I$ $a = -0.40637 - 1.57861I$ $b = 0.68373 + 2.29360I$	$16.0150 - 2.2300I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.02618 - 1.45150I$ $a = -0.40637 + 1.57861I$ $b = 0.68373 - 2.29360I$	$16.0150 + 2.2300I$	0
$u = -0.321632 + 0.432414I$ $a = 0.501057 + 0.775061I$ $b = -0.658298 + 0.519110I$	$3.05620 + 1.45730I$	$-2.91763 - 3.84500I$
$u = -0.321632 - 0.432414I$ $a = 0.501057 - 0.775061I$ $b = -0.658298 - 0.519110I$	$3.05620 - 1.45730I$	$-2.91763 + 3.84500I$
$u = -0.101512 + 0.510380I$ $a = 1.63762 - 1.50988I$ $b = -0.286744 - 0.431400I$	$5.59306 + 3.05173I$	$-1.18823 - 4.71810I$
$u = -0.101512 - 0.510380I$ $a = 1.63762 + 1.50988I$ $b = -0.286744 + 0.431400I$	$5.59306 - 3.05173I$	$-1.18823 + 4.71810I$
$u = -0.177953 + 0.456691I$ $a = 0.523935 - 0.783978I$ $b = -1.121220 - 0.676233I$	$2.75416 - 4.05081I$	$0.12936 + 3.76873I$
$u = -0.177953 - 0.456691I$ $a = 0.523935 + 0.783978I$ $b = -1.121220 + 0.676233I$	$2.75416 + 4.05081I$	$0.12936 - 3.76873I$
$u = 0.07515 + 1.51838I$ $a = -0.407891 + 1.308850I$ $b = 0.32917 - 2.00352I$	$9.24345 + 1.84865I$	0
$u = 0.07515 - 1.51838I$ $a = -0.407891 - 1.308850I$ $b = 0.32917 + 2.00352I$	$9.24345 - 1.84865I$	0
$u = 1.30989 + 0.86519I$ $a = -0.404183 - 0.004191I$ $b = -0.506336 + 0.448197I$	$10.48660 - 6.53498I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.30989 - 0.86519I$ $a = -0.404183 + 0.004191I$ $b = -0.506336 - 0.448197I$	$10.48660 + 6.53498I$	0
$u = -0.014279 + 0.410182I$ $a = 1.91548 + 0.36685I$ $b = 0.082052 + 0.291523I$	$-0.542061 - 1.221850I$	$-5.29520 + 6.63859I$
$u = -0.014279 - 0.410182I$ $a = 1.91548 - 0.36685I$ $b = 0.082052 - 0.291523I$	$-0.542061 + 1.221850I$	$-5.29520 - 6.63859I$
$u = 0.16420 + 1.59659I$ $a = 0.184722 - 1.158090I$ $b = -0.54642 + 1.91576I$	$12.44650 + 2.07145I$	0
$u = 0.16420 - 1.59659I$ $a = 0.184722 + 1.158090I$ $b = -0.54642 - 1.91576I$	$12.44650 - 2.07145I$	0
$u = -0.22985 + 1.69814I$ $a = 0.109029 + 1.036300I$ $b = -0.11039 - 1.76694I$	$6.11300 + 0.81340I$	0
$u = -0.22985 - 1.69814I$ $a = 0.109029 - 1.036300I$ $b = -0.11039 + 1.76694I$	$6.11300 - 0.81340I$	0
$u = -0.29679 + 1.75324I$ $a = -0.354309 - 0.914956I$ $b = -0.21228 + 1.82313I$	$9.96547 - 1.07173I$	0
$u = -0.29679 - 1.75324I$ $a = -0.354309 + 0.914956I$ $b = -0.21228 - 1.82313I$	$9.96547 + 1.07173I$	0
$u = 0.30708 + 1.84408I$ $a = 0.079172 - 0.932460I$ $b = 0.22699 + 1.87203I$	$6.64424 - 4.88256I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.30708 - 1.84408I$ $a = 0.079172 + 0.932460I$ $b = 0.22699 - 1.87203I$	$6.64424 + 4.88256I$	0
$u = -0.40674 + 1.90462I$ $a = 0.058906 - 0.983240I$ $b = 0.34210 + 1.69746I$	$17.8761 - 1.8874I$	0
$u = -0.40674 - 1.90462I$ $a = 0.058906 + 0.983240I$ $b = 0.34210 - 1.69746I$	$17.8761 + 1.8874I$	0
$u = -0.38388 + 1.94831I$ $a = -0.000346 - 1.037260I$ $b = -0.24478 + 1.87973I$	$11.9113 + 9.7563I$	0
$u = -0.38388 - 1.94831I$ $a = -0.000346 + 1.037260I$ $b = -0.24478 - 1.87973I$	$11.9113 - 9.7563I$	0
$u = 0.43046 + 1.94155I$ $a = -0.037696 + 1.041050I$ $b = -0.38583 - 2.09483I$	$19.7372 - 13.8895I$	0
$u = 0.43046 - 1.94155I$ $a = -0.037696 - 1.041050I$ $b = -0.38583 + 2.09483I$	$19.7372 + 13.8895I$	0
$u = 0.39019 + 1.98182I$ $a = 0.031498 + 1.016350I$ $b = 0.00248 - 1.72309I$	$11.00050 - 3.60187I$	0
$u = 0.39019 - 1.98182I$ $a = 0.031498 - 1.016350I$ $b = 0.00248 + 1.72309I$	$11.00050 + 3.60187I$	0
$u = 0.46927 + 1.98045I$ $a = -0.291724 + 0.750465I$ $b = -0.63116 - 1.94516I$	$17.5539 + 0.5975I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.46927 - 1.98045I$ $a = -0.291724 - 0.750465I$ $b = -0.63116 + 1.94516I$	$17.5539 - 0.5975I$	0
$u = -0.36958 + 2.00799I$ $a = 0.064796 + 0.857021I$ $b = 0.45375 - 2.09744I$	$13.8228 + 7.5287I$	0
$u = -0.36958 - 2.00799I$ $a = 0.064796 - 0.857021I$ $b = 0.45375 + 2.09744I$	$13.8228 - 7.5287I$	0

II. $I_2^u = \langle -1092u^{17} + 1979u^{16} + \cdots + 1579b - 2918,\ -862u^{17} - 922u^{16} + \cdots + 1579a + 3868,\ u^{18} + 6u^{16} + \cdots - 4u^2 + 1\rangle$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0.545915u^{17} + 0.583914u^{16} + \cdots - 1.47245u - 2.44965 \\ 0.691577u^{17} - 1.25332u^{16} + \cdots - 0.385054u + 1.84801 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -0.545915u^{17} - 0.583914u^{16} + \cdots + 1.47245u + 4.44965 \\ 0.545915u^{17} + 0.583914u^{16} + \cdots - 1.47245u - 2.44965 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -0.611146u^{17} - 1.53072u^{16} + \cdots + 1.63331u + 4.88157 \\ -1.23749u^{17} + 0.669411u^{16} + \cdots + 1.85750u + 1.60165 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 1.23749u^{17} - 0.669411u^{16} + \cdots - 1.85750u - 0.601647 \\ 0.691577u^{17} - 1.25332u^{16} + \cdots - 0.385054u + 1.84801 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 1.23749u^{17} - 0.669411u^{16} + \cdots - 1.85750u - 0.601647 \\ 1.29576u^{17} - 1.80431u^{16} + \cdots - 1.62255u + 2.51742 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0.669411u^{17} - 0.604180u^{16} + \cdots + 1.60165u + 1.23749 \\ 1.13490u^{17} + 0.763775u^{16} + \cdots - 3.11906u + 0.0582647 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 1.80431u^{17} + 0.159595u^{16} + \cdots - 1.51742u + 1.29576 \\ 1.13490u^{17} + 0.763775u^{16} + \cdots - 3.11906u + 0.0582647 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} -0.614946u^{17} - 1.84801u^{16} + \cdots + 5.03103u - 0.908803 \\ 0.665611u^{17} - 1.92147u^{16} + \cdots + 3.99937u + 1.44712 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -1.64345u^{17} + 2.27232u^{16} + \cdots - 0.986067u - 2.83661 \\ -1.11843u^{17} + 0.611146u^{16} + \cdots + 1.72894u - 3.63331 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{993}{1579}u^{17} + \frac{7877}{1579}u^{16} + \cdots + \frac{6036}{1579}u - \frac{48644}{1579}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{18} - 4u^{17} + \cdots - 24u + 5$
c_2	$u^{18} + 6u^{16} + \cdots - 4u^2 + 1$
c_3	$u^{18} + 3u^{17} + \cdots - 4u + 1$
c_4	$u^{18} + 4u^{17} + \cdots + 24u + 5$
c_5	$u^{18} - u^{17} + \cdots + 3u^2 + 1$
c_6	$u^{18} + 8u^{16} + \cdots + 37u + 13$
c_7	$u^{18} - u^{17} + \cdots + 24u + 7$
c_8	$u^{18} - 3u^{17} + \cdots - 2u + 1$
c_9	$u^{18} - u^{17} + \cdots - 16u + 7$
c_{10}	$u^{18} + 3u^{17} + \cdots - 8u + 5$
c_{11}, c_{12}	$u^{18} + 3u^{17} + \cdots + 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{18} + 14y^{17} + \cdots + 184y + 25$
c_2	$y^{18} + 12y^{17} + \cdots - 8y + 1$
c_3	$y^{18} + y^{17} + \cdots - 8y + 1$
c_5	$y^{18} - 7y^{17} + \cdots + 6y + 1$
c_6	$y^{18} + 16y^{17} + \cdots - 1317y + 169$
c_7	$y^{18} + y^{17} + \cdots + 54y + 49$
c_8, c_{11}, c_{12}	$y^{18} + 21y^{17} + \cdots - 8y + 1$
c_9	$y^{18} + 17y^{17} + \cdots - 130y + 49$
c_{10}	$y^{18} - 17y^{17} + \cdots + 156y + 25$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.634936 + 0.809942I$ $a = 0.253920 + 0.526793I$ $b = 0.533045 - 0.259267I$	$0.94314 - 1.81857I$	$-7.95701 + 2.41990I$
$u = 0.634936 - 0.809942I$ $a = 0.253920 - 0.526793I$ $b = 0.533045 + 0.259267I$	$0.94314 + 1.81857I$	$-7.95701 - 2.41990I$
$u = -0.673695 + 0.591200I$ $a = 0.117610 + 1.215620I$ $b = -0.581518 - 0.929685I$	$3.44784 + 0.42863I$	$-0.146598 + 0.096627I$
$u = -0.673695 - 0.591200I$ $a = 0.117610 - 1.215620I$ $b = -0.581518 + 0.929685I$	$3.44784 - 0.42863I$	$-0.146598 - 0.096627I$
$u = 0.825879 + 0.224727I$ $a = 1.108690 + 0.402214I$ $b = 0.958725 + 0.489645I$	$4.65483 + 1.87331I$	$-3.44153 - 2.58014I$
$u = 0.825879 - 0.224727I$ $a = 1.108690 - 0.402214I$ $b = 0.958725 - 0.489645I$	$4.65483 - 1.87331I$	$-3.44153 + 2.58014I$
$u = -0.596151 + 0.449671I$ $a = 0.407937 - 1.348040I$ $b = -1.058740 + 0.248210I$	$8.33778 + 7.24017I$	$-5.00222 - 6.15180I$
$u = -0.596151 - 0.449671I$ $a = 0.407937 + 1.348040I$ $b = -1.058740 - 0.248210I$	$8.33778 - 7.24017I$	$-5.00222 + 6.15180I$
$u = -0.632269 + 0.295497I$ $a = 0.777931 - 0.335785I$ $b = 0.714494 - 0.186650I$	$-1.41596 - 0.45768I$	$-12.3817 + 7.3222I$
$u = -0.632269 - 0.295497I$ $a = 0.777931 + 0.335785I$ $b = 0.714494 + 0.186650I$	$-1.41596 + 0.45768I$	$-12.3817 - 7.3222I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.620783 + 0.124968I$ $a = 0.285723 + 1.231670I$ $b = -0.721103 - 0.527839I$	$1.68541 - 4.18335I$	$-8.24028 + 6.19804I$
$u = 0.620783 - 0.124968I$ $a = 0.285723 - 1.231670I$ $b = -0.721103 + 0.527839I$	$1.68541 + 4.18335I$	$-8.24028 - 6.19804I$
$u = -0.036992 + 1.411160I$ $a = -0.236048 - 1.324720I$ $b = -0.46312 + 1.95012I$	$14.7400 + 0.3318I$	$-0.665045 + 0.274438I$
$u = -0.036992 - 1.411160I$ $a = -0.236048 + 1.324720I$ $b = -0.46312 - 1.95012I$	$14.7400 - 0.3318I$	$-0.665045 - 0.274438I$
$u = 0.07842 + 1.63360I$ $a = -0.300508 + 1.150520I$ $b = 0.06711 - 1.84201I$	$8.57060 + 1.42162I$	$-6.00677 + 0.42779I$
$u = 0.07842 - 1.63360I$ $a = -0.300508 - 1.150520I$ $b = 0.06711 + 1.84201I$	$8.57060 - 1.42162I$	$-6.00677 - 0.42779I$
$u = -0.22091 + 1.64765I$ $a = -0.415251 - 1.018120I$ $b = 0.55111 + 1.86368I$	$13.31920 - 3.48291I$	$0.34112 + 3.44872I$
$u = -0.22091 - 1.64765I$ $a = -0.415251 + 1.018120I$ $b = 0.55111 - 1.86368I$	$13.31920 + 3.48291I$	$0.34112 - 3.44872I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{18} - 4u^{17} + \cdots - 24u + 5)(u^{53} - 5u^{52} + \cdots - 82u + 7)$
c_2	$(u^{18} + 6u^{16} + \cdots - 4u^2 + 1)(u^{53} + u^{52} + \cdots + 1260u + 931)$
c_3	$(u^{18} + 3u^{17} + \cdots - 4u + 1)(u^{53} + 4u^{52} + \cdots + 208100u + 20921)$
c_4	$(u^{18} + 4u^{17} + \cdots + 24u + 5)(u^{53} - 5u^{52} + \cdots - 82u + 7)$
c_5	$(u^{18} - u^{17} + \cdots + 3u^2 + 1)(u^{53} - 24u^{51} + \cdots - 469428u + 50191)$
c_6	$(u^{18} + 8u^{16} + \cdots + 37u + 13)(u^{53} - u^{52} + \cdots + 1059u + 259)$
c_7	$(u^{18} - u^{17} + \cdots + 24u + 7)(u^{53} - 12u^{52} + \cdots + 2540u - 167)$
c_8	$(u^{18} - 3u^{17} + \cdots - 2u + 1)(u^{53} - 4u^{52} + \cdots - 2u + 1)$
c_9	$(u^{18} - u^{17} + \cdots - 16u + 7)(u^{53} - 2u^{52} + \cdots + 7670694u + 814939)$
c_{10}	$(u^{18} + 3u^{17} + \cdots - 8u + 5)(u^{53} - 39u^{51} + \cdots - 634u + 389)$
c_{11}, c_{12}	$(u^{18} + 3u^{17} + \cdots + 2u + 1)(u^{53} - 4u^{52} + \cdots - 2u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$(y^{18}+14y^{17}+\cdots+184y+25)(y^{53}+45y^{52}+\cdots-1746y-49)$
c_2	$(y^{18}+12y^{17}+\cdots-8y+1)$ $\cdot(y^{53}+71y^{52}+\cdots-25215890y-866761)$
c_3	$(y^{18}+y^{17}+\cdots-8y+1)$ $\cdot(y^{53}+36y^{52}+\cdots+38130549598y-437688241)$
c_5	$(y^{18}-7y^{17}+\cdots+6y+1)$ $\cdot(y^{53}-48y^{52}+\cdots+192928447348y-2519136481)$
c_6	$(y^{18}+16y^{17}+\cdots-1317y+169)$ $\cdot(y^{53}+79y^{52}+\cdots-2126897y-67081)$
c_7	$(y^{18}+y^{17}+\cdots+54y+49)(y^{53}+24y^{52}+\cdots+4177728y-27889)$
c_8, c_{11}, c_{12}	$(y^{18}+21y^{17}+\cdots-8y+1)(y^{53}+60y^{52}+\cdots-122y-1)$
c_9	$(y^{18}+17y^{17}+\cdots-130y+49)$ $\cdot(y^{53}+64y^{52}+\cdots-1343304277888y-664125573721)$
c_{10}	$(y^{18}-17y^{17}+\cdots+156y+25)$ $\cdot(y^{53}-78y^{52}+\cdots+6363770y-151321)$