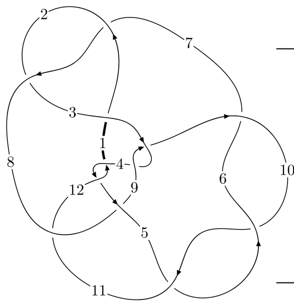
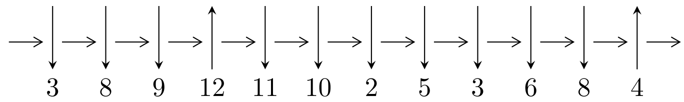
$12n_{0659}$ ($K12n_{0659}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & -3.74446 \times 10^{123} u^{53} - 1.80068 \times 10^{124} u^{52} + \cdots + 2.83000 \times 10^{124} b - 8.02256 \times 10^{125}, \\
& 1.03240 \times 10^{126} u^{53} + 4.93019 \times 10^{126} u^{52} + \cdots + 1.38670 \times 10^{126} a + 2.28691 \times 10^{128}, \\
& u^{54} + 5u^{53} + \cdots + 528u + 49 \rangle \\
I_2^u = \langle & 2u^{17} + 16u^{16} + \cdots + b + 43,\ 11u^{17} - 31u^{16} + \cdots + a - 24,\ u^{18} - 2u^{17} + \cdots - 2u + 1 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 72 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. $\boldsymbol{I^u_1 = \langle -3.74\times 10^{123}u^{53} - 1.80\times 10^{124}u^{52} + \cdots + 2.83\times 10^{124}b - 8.02\times 10^{125},\ 1.03\times 10^{126}u^{53} + 4.93\times 10^{126}u^{52} + \cdots + 1.39\times 10^{126}a + 2.29\times 10^{128},\ u^{54} + 5u^{53} + \cdots + 528u + 49\rangle}$

(i) Arc colorings

$$a_5 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_4 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_1 = \begin{pmatrix}u\\u^3+u\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-0.744500u^{53} - 3.55533u^{52} + \cdots - 1001.93u - 164.918\\0.132313u^{53} + 0.636282u^{52} + \cdots + 178.673u + 28.3483\end{pmatrix}$$
$$a_3 = \begin{pmatrix}0.980752u^{53} + 4.70300u^{52} + \cdots + 1409.41u + 228.585\\-0.0620997u^{53} - 0.294145u^{52} + \cdots - 86.5558u - 14.5888\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-0.612187u^{53} - 2.91905u^{52} + \cdots - 823.256u - 136.569\\0.132313u^{53} + 0.636282u^{52} + \cdots + 178.673u + 28.3483\end{pmatrix}$$
$$a_2 = \begin{pmatrix}2.27754u^{53} + 10.9226u^{52} + \cdots + 3266.86u + 527.076\\-0.155250u^{53} - 0.741079u^{52} + \cdots - 221.237u - 36.9171\end{pmatrix}$$
$$a_7 = \begin{pmatrix}2.69305u^{53} + 12.8497u^{52} + \cdots + 3650.99u + 598.393\\-0.178103u^{53} - 0.850344u^{52} + \cdots - 239.834u - 38.4779\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}-1.22947u^{53} - 5.89896u^{52} + \cdots - 1731.81u - 275.141\\0.129646u^{53} + 0.617545u^{52} + \cdots + 192.287u + 31.3383\end{pmatrix}$$
$$a_6 = \begin{pmatrix}-1.12462u^{53} - 5.37150u^{52} + \cdots - 1476.98u - 234.162\\0.0650075u^{53} + 0.315357u^{52} + \cdots + 100.049u + 15.3130\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}-1.86297u^{53} - 8.89331u^{52} + \cdots - 2509.47u - 410.424\\0.218460u^{53} + 1.04761u^{52} + \cdots + 297.149u + 47.1762\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.164546u^{53} - 0.781563u^{52} + \cdots - 246.802u - 54.5462$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{54} + 57u^{53} + \cdots + 4309293u + 130321$
c_2, c_7	$u^{54} + u^{53} + \cdots + 1811u - 361$
c_3, c_9	$u^{54} - u^{53} + \cdots - 171u - 37$
c_4, c_{12}	$u^{54} + 5u^{53} + \cdots + 528u + 49$
c_5, c_6, c_{10}	$u^{54} + u^{53} + \cdots + 146u - 143$
c_8	$u^{54} + 3u^{53} + \cdots - 53u - 11$
c_{11}	$u^{54} - 6u^{52} + \cdots - 2734u + 439$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{54} - 121y^{53} + \cdots + 1173617520891y + 16983563041$
c_2, c_7	$y^{54} - 57y^{53} + \cdots - 4309293y + 130321$
c_3, c_9	$y^{54} - 3y^{53} + \cdots - 82743y + 1369$
c_4, c_{12}	$y^{54} + 43y^{53} + \cdots - 40056y + 2401$
c_5, c_6, c_{10}	$y^{54} + 43y^{53} + \cdots + 236656y + 20449$
c_8	$y^{54} + 17y^{53} + \cdots + 1393y + 121$
c_{11}	$y^{54} - 12y^{53} + \cdots - 2068032y + 192721$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.234320 + 0.969892I$ $a = -0.148625 + 1.288510I$ $b = 0.475743 - 1.092990I$	$3.14147 + 2.14385I$	$-8.00000 - 2.27953I$
$u = -0.234320 - 0.969892I$ $a = -0.148625 - 1.288510I$ $b = 0.475743 + 1.092990I$	$3.14147 - 2.14385I$	$-8.00000 + 2.27953I$
$u = 0.027994 + 0.970519I$ $a = -0.553301 - 0.417496I$ $b = 0.36927 + 1.64804I$	$3.04092 - 2.63323I$	$-6.79514 + 3.39134I$
$u = 0.027994 - 0.970519I$ $a = -0.553301 + 0.417496I$ $b = 0.36927 - 1.64804I$	$3.04092 + 2.63323I$	$-6.79514 - 3.39134I$
$u = -0.782902 + 0.567024I$ $a = -0.515595 + 1.182860I$ $b = -0.368436 + 0.517578I$	$-2.46486 - 3.78662I$	$-6.40927 + 1.45545I$
$u = -0.782902 - 0.567024I$ $a = -0.515595 - 1.182860I$ $b = -0.368436 - 0.517578I$	$-2.46486 + 3.78662I$	$-6.40927 - 1.45545I$
$u = -0.362509 + 1.006200I$ $a = -1.74365 + 0.26534I$ $b = 1.03182 + 1.06263I$	$2.07901 - 4.91557I$	$-8.00000 + 0.I$
$u = -0.362509 - 1.006200I$ $a = -1.74365 - 0.26534I$ $b = 1.03182 - 1.06263I$	$2.07901 + 4.91557I$	$-8.00000 + 0.I$
$u = 0.562881 + 1.010060I$ $a = 1.70829 + 0.19125I$ $b = -1.08761 + 0.91934I$	$0.36171 + 5.69112I$	0
$u = 0.562881 - 1.010060I$ $a = 1.70829 - 0.19125I$ $b = -1.08761 - 0.91934I$	$0.36171 - 5.69112I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.311601+1.189300I$ $a=\ \ 1.261750-0.239301I$ $b=-0.846614-0.808655I$	$-3.40881-2.20781I$	0
$u=-0.311601-1.189300I$ $a=\ \ 1.261750+0.239301I$ $b=-0.846614+0.808655I$	$-3.40881+2.20781I$	0
$u=\ \ 0.475047+0.535369I$ $a=\ \ 0.075261+0.763788I$ $b=-0.550857-1.221260I$	$2.01849-1.23122I$	$-3.26105-1.16198I$
$u=\ \ 0.475047-0.535369I$ $a=\ \ 0.075261-0.763788I$ $b=-0.550857+1.221260I$	$2.01849+1.23122I$	$-3.26105+1.16198I$
$u=\ \ 0.465598+1.208790I$ $a=-1.173780+0.049718I$ $b=\ \ 0.795766-0.488765I$	$-1.16225+2.99382I$	0
$u=\ \ 0.465598-1.208790I$ $a=-1.173780-0.049718I$ $b=\ \ 0.795766+0.488765I$	$-1.16225-2.99382I$	0
$u=-0.665299+1.133700I$ $a=\ \ 0.975711-0.647626I$ $b=-0.441264-0.844294I$	$-4.11326-2.05845I$	0
$u=-0.665299-1.133700I$ $a=\ \ 0.975711+0.647626I$ $b=-0.441264+0.844294I$	$-4.11326+2.05845I$	0
$u=\ \ 0.039718+1.317490I$ $a=-1.060890-0.018811I$ $b=\ \ 0.932021+0.518191I$	$-2.35880+2.03182I$	0
$u=\ \ 0.039718-1.317490I$ $a=-1.060890+0.018811I$ $b=\ \ 0.932021-0.518191I$	$-2.35880-2.03182I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.352052 + 0.575861I$ $a = 0.49680 - 1.33952I$ $b = 0.143466 - 1.197570I$	$8.88135 + 1.75033I$	$-0.23249 - 5.30216I$
$u = 0.352052 - 0.575861I$ $a = 0.49680 + 1.33952I$ $b = 0.143466 + 1.197570I$	$8.88135 - 1.75033I$	$-0.23249 + 5.30216I$
$u = 0.103091 + 1.329410I$ $a = 1.221790 + 0.330306I$ $b = -0.717176 + 1.156320I$	$-6.43910 + 4.65775I$	0
$u = 0.103091 - 1.329410I$ $a = 1.221790 - 0.330306I$ $b = -0.717176 - 1.156320I$	$-6.43910 - 4.65775I$	0
$u = 0.655732 + 0.001796I$ $a = -0.426767 - 0.217995I$ $b = -0.216342 + 0.945304I$	$2.33536 + 1.33301I$	$-3.31811 - 4.81791I$
$u = 0.655732 - 0.001796I$ $a = -0.426767 + 0.217995I$ $b = -0.216342 - 0.945304I$	$2.33536 - 1.33301I$	$-3.31811 + 4.81791I$
$u = -0.099058 + 1.403950I$ $a = -1.200600 + 0.034439I$ $b = 1.00529 - 0.99657I$	$-11.55370 - 1.21518I$	0
$u = -0.099058 - 1.403950I$ $a = -1.200600 - 0.034439I$ $b = 1.00529 + 0.99657I$	$-11.55370 + 1.21518I$	0
$u = 1.383890 + 0.257220I$ $a = 0.042622 + 0.310020I$ $b = 0.327830 + 0.748998I$	$4.07354 - 1.34058I$	0
$u = 1.383890 - 0.257220I$ $a = 0.042622 - 0.310020I$ $b = 0.327830 - 0.748998I$	$4.07354 + 1.34058I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.304294 + 0.499465I$ $a = 1.02836 + 1.02465I$ $b = 0.511575 - 0.716466I$	$3.32556 + 1.82215I$	$-7.68501 - 4.30894I$
$u = -0.304294 - 0.499465I$ $a = 1.02836 - 1.02465I$ $b = 0.511575 + 0.716466I$	$3.32556 - 1.82215I$	$-7.68501 + 4.30894I$
$u = -0.29988 + 1.38353I$ $a = 1.167220 - 0.318667I$ $b = -1.25222 + 0.74442I$	$-8.06461 - 7.14617I$	0
$u = -0.29988 - 1.38353I$ $a = 1.167220 + 0.318667I$ $b = -1.25222 - 0.74442I$	$-8.06461 + 7.14617I$	0
$u = -1.44175 + 0.12669I$ $a = 0.163034 - 0.101692I$ $b = -0.564264 - 0.875736I$	$-1.51180 - 7.69812I$	0
$u = -1.44175 - 0.12669I$ $a = 0.163034 + 0.101692I$ $b = -0.564264 + 0.875736I$	$-1.51180 + 7.69812I$	0
$u = 0.41538 + 1.39497I$ $a = 0.473978 - 0.650086I$ $b = 0.037314 + 0.438841I$	$5.88808 + 0.92042I$	0
$u = 0.41538 - 1.39497I$ $a = 0.473978 + 0.650086I$ $b = 0.037314 - 0.438841I$	$5.88808 - 0.92042I$	0
$u = 0.25489 + 1.47796I$ $a = 0.911154 - 0.269340I$ $b = -0.801265 + 0.938714I$	$-3.02616 + 3.86573I$	0
$u = 0.25489 - 1.47796I$ $a = 0.911154 + 0.269340I$ $b = -0.801265 - 0.938714I$	$-3.02616 - 3.86573I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ \ 0.56773 + 1.48140I$ $a = -1.040690 + 0.016279I$ $b = \ \ 0.752725 - 1.177120I$	$-0.36984 + 8.31182I$	0
$u = \ \ 0.56773 - 1.48140I$ $a = -1.040690 - 0.016279I$ $b = \ \ 0.752725 + 1.177120I$	$-0.36984 - 8.31182I$	0
$u = -0.63065 + 1.50296I$ $a = \ \ 1.250760 + 0.035031I$ $b = -0.91992 - 1.19790I$	$-6.5506 - 14.8339I$	0
$u = -0.63065 - 1.50296I$ $a = \ \ 1.250760 - 0.035031I$ $b = -0.91992 + 1.19790I$	$-6.5506 + 14.8339I$	0
$u = -0.149852 + 0.300455I$ $a = -1.23317 + 5.69132I$ $b = -0.541979 - 0.188288I$	$-2.60231 - 4.18203I$	$-11.45087 - 0.72915I$
$u = -0.149852 - 0.300455I$ $a = -1.23317 - 5.69132I$ $b = -0.541979 + 0.188288I$	$-2.60231 + 4.18203I$	$-11.45087 + 0.72915I$
$u = -0.51673 + 1.64071I$ $a = -1.063790 - 0.161215I$ $b = \ \ 0.980622 + 0.969393I$	$-11.5956 - 8.4499I$	0
$u = -0.51673 - 1.64071I$ $a = -1.063790 + 0.161215I$ $b = \ \ 0.980622 - 0.969393I$	$-11.5956 + 8.4499I$	0
$u = -1.48162 + 0.91100I$ $a = -0.133736 - 0.101440I$ $b = \ \ 0.190419 + 0.615231I$	$-4.30577 - 1.29948I$	0
$u = -1.48162 - 0.91100I$ $a = -0.133736 + 0.101440I$ $b = \ \ 0.190419 - 0.615231I$	$-4.30577 + 1.29948I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.30454+1.73276I$ $a=\ \ 0.825545+0.324392I$ $b=-0.878673-0.649779I$	$-8.04995-1.38990I$	0
$u=-0.30454-1.73276I$ $a=\ \ 0.825545-0.324392I$ $b=-0.878673+0.649779I$	$-8.04995+1.38990I$	0
$u=-0.221783$ $a=-1.37508$ $b=-0.409309$	-0.627945	-15.7990
$u=-0.216213$ $a=-7.73007$ $b=\ \ 0.674840$	-6.62446	-17.2110

II. $\boldsymbol{I_2^u =}$
$\boldsymbol{\langle 2u^{17}+16u^{16}+\cdots+b+43,\ 11u^{17}-31u^{16}+\cdots+a-24,\ u^{18}-2u^{17}+\cdots-2u+1\rangle}$

(i) Arc colorings

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

$$a_{12} = \begin{pmatrix}0\\u\end{pmatrix}$$

$$a_4 = \begin{pmatrix}1\\u^2\end{pmatrix}$$

$$a_1 = \begin{pmatrix}u\\u^3+u\end{pmatrix}$$

$$a_9 = \begin{pmatrix}-11u^{17}+31u^{16}+\cdots-48u+24\\-2u^{17}-16u^{16}+\cdots+60u-43\end{pmatrix}$$

$$a_3 = \begin{pmatrix}-3u^{17}+10u^{16}+\cdots+32u^2-9u\\u^{16}-2u^{15}+\cdots-2u+2\end{pmatrix}$$

$$a_8 = \begin{pmatrix}-13u^{17}+15u^{16}+\cdots+12u-19\\-2u^{17}-16u^{16}+\cdots+60u-43\end{pmatrix}$$

$$a_2 = \begin{pmatrix}-7u^{17}+19u^{16}+\cdots-34u+6\\u^{17}-u^{16}+\cdots-5u^2+7u\end{pmatrix}$$

$$a_7 = \begin{pmatrix}11u^{17}-8u^{16}+\cdots-10u+19\\-2u^{17}+8u^{16}+\cdots-12u+4\end{pmatrix}$$

$$a_{11} = \begin{pmatrix}-12u^{17}+17u^{16}+\cdots+4u-11\\u^{16}+4u^{14}+\cdots+2u+5\end{pmatrix}$$

$$a_6 = \begin{pmatrix}19u^{17}-56u^{16}+\cdots+94u-30\\19u^{17}-41u^{16}+\cdots+58u-13\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}35u^{17}-51u^{16}+\cdots+16u+31\\9u^{17}-10u^{16}+\cdots-7u+10\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes
$= -116u^{17}+218u^{16}-732u^{15}+1098u^{14}-2099u^{13}+3132u^{12}-4657u^{11}+6171u^{10}-6988u^9+6776u^8-6308u^7+4541u^6-4126u^5+2176u^4-1742u^3+599u^2-297u+39$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{18} - 14u^{17} + \cdots - 11u + 1$
c_2	$u^{18} - 7u^{16} + \cdots + u + 1$
c_3	$u^{18} + 6u^{16} + \cdots - u + 1$
c_4	$u^{18} - 2u^{17} + \cdots - 2u + 1$
c_5, c_6	$u^{18} + 11u^{16} + \cdots - 4u + 1$
c_7	$u^{18} - 7u^{16} + \cdots - u + 1$
c_8	$u^{18} - 2u^{17} + \cdots - 3u + 1$
c_9	$u^{18} + 6u^{16} + \cdots + u + 1$
c_{10}	$u^{18} + 11u^{16} + \cdots + 4u + 1$
c_{11}	$u^{18} - u^{17} + \cdots - 11u^2 + 1$
c_{12}	$u^{18} + 2u^{17} + \cdots + 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{18} - 22y^{17} + \cdots + y + 1$
c_2, c_7	$y^{18} - 14y^{17} + \cdots - 11y + 1$
c_3, c_9	$y^{18} + 12y^{17} + \cdots + 11y + 1$
c_4, c_{12}	$y^{18} + 10y^{17} + \cdots + 14y + 1$
c_5, c_6, c_{10}	$y^{18} + 22y^{17} + \cdots + 14y + 1$
c_8	$y^{18} + 12y^{17} + \cdots + 11y + 1$
c_{11}	$y^{18} - y^{17} + \cdots - 22y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.433983 + 1.043760I$ $a = 1.76917 + 0.06570I$ $b = -1.10704 + 1.10280I$	$2.38044 + 5.58075I$	$-3.29349 - 9.18069I$
$u = 0.433983 - 1.043760I$ $a = 1.76917 - 0.06570I$ $b = -1.10704 - 1.10280I$	$2.38044 - 5.58075I$	$-3.29349 + 9.18069I$
$u = 1.109000 + 0.375523I$ $a = -0.336175 - 0.040796I$ $b = -0.330973 - 0.824788I$	$4.68841 - 1.16029I$	$1.77241 + 1.34126I$
$u = 1.109000 - 0.375523I$ $a = -0.336175 + 0.040796I$ $b = -0.330973 + 0.824788I$	$4.68841 + 1.16029I$	$1.77241 - 1.34126I$
$u = -0.527284 + 0.639053I$ $a = -1.03264 + 2.28395I$ $b = 0.542663 + 0.578885I$	$-2.36972 - 4.87568I$	$-7.53244 + 9.08177I$
$u = -0.527284 - 0.639053I$ $a = -1.03264 - 2.28395I$ $b = 0.542663 - 0.578885I$	$-2.36972 + 4.87568I$	$-7.53244 - 9.08177I$
$u = 0.030219 + 0.770891I$ $a = 0.89608 - 1.10632I$ $b = -0.275066 - 1.229750I$	$8.30714 - 1.03793I$	$-7.10521 - 1.06063I$
$u = 0.030219 - 0.770891I$ $a = 0.89608 + 1.10632I$ $b = -0.275066 + 1.229750I$	$8.30714 + 1.03793I$	$-7.10521 + 1.06063I$
$u = 0.441547 + 1.178770I$ $a = -1.208310 + 0.169945I$ $b = 0.835779 - 0.722556I$	$-1.27644 + 3.83272I$	$-8.04046 - 6.78992I$
$u = 0.441547 - 1.178770I$ $a = -1.208310 - 0.169945I$ $b = 0.835779 + 0.722556I$	$-1.27644 - 3.83272I$	$-8.04046 + 6.78992I$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.090717 + 0.687766I$ $a = -0.811399 - 0.398978I$ $b = 0.37619 + 1.36678I$	$1.34686 - 1.58107I$	$-12.80363 + 3.25466I$
$u = 0.090717 - 0.687766I$ $a = -0.811399 + 0.398978I$ $b = 0.37619 - 1.36678I$	$1.34686 + 1.58107I$	$-12.80363 - 3.25466I$
$u = 0.186640 + 0.604958I$ $a = 0.03137 + 1.98200I$ $b = -0.47824 - 1.53175I$	$4.32414 - 2.28815I$	$0.92523 + 2.22693I$
$u = 0.186640 - 0.604958I$ $a = 0.03137 - 1.98200I$ $b = -0.47824 + 1.53175I$	$4.32414 + 2.28815I$	$0.92523 - 2.22693I$
$u = -0.93428 + 1.11326I$ $a = 0.409560 - 0.526106I$ $b = -0.240017 - 0.368514I$	$-5.08793 - 1.14055I$	$-13.57284 + 0.84904I$
$u = -0.93428 - 1.11326I$ $a = 0.409560 + 0.526106I$ $b = -0.240017 + 0.368514I$	$-5.08793 + 1.14055I$	$-13.57284 - 0.84904I$
$u = 0.16946 + 1.46145I$ $a = 0.282355 - 0.799726I$ $b = -0.323299 + 0.565718I$	$5.78138 + 1.58656I$	$-4.84957 - 7.40440I$
$u = 0.16946 - 1.46145I$ $a = 0.282355 + 0.799726I$ $b = -0.323299 - 0.565718I$	$5.78138 - 1.58656I$	$-4.84957 + 7.40440I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{18} - 14u^{17} + \cdots - 11u + 1)$ $\cdot\,(u^{54} + 57u^{53} + \cdots + 4309293u + 130321)$
c_2	$(u^{18} - 7u^{16} + \cdots + u + 1)(u^{54} + u^{53} + \cdots + 1811u - 361)$
c_3	$(u^{18} + 6u^{16} + \cdots - u + 1)(u^{54} - u^{53} + \cdots - 171u - 37)$
c_4	$(u^{18} - 2u^{17} + \cdots - 2u + 1)(u^{54} + 5u^{53} + \cdots + 528u + 49)$
c_5, c_6	$(u^{18} + 11u^{16} + \cdots - 4u + 1)(u^{54} + u^{53} + \cdots + 146u - 143)$
c_7	$(u^{18} - 7u^{16} + \cdots - u + 1)(u^{54} + u^{53} + \cdots + 1811u - 361)$
c_8	$(u^{18} - 2u^{17} + \cdots - 3u + 1)(u^{54} + 3u^{53} + \cdots - 53u - 11)$
c_9	$(u^{18} + 6u^{16} + \cdots + u + 1)(u^{54} - u^{53} + \cdots - 171u - 37)$
c_{10}	$(u^{18} + 11u^{16} + \cdots + 4u + 1)(u^{54} + u^{53} + \cdots + 146u - 143)$
c_{11}	$(u^{18} - u^{17} + \cdots - 11u^2 + 1)(u^{54} - 6u^{52} + \cdots - 2734u + 439)$
c_{12}	$(u^{18} + 2u^{17} + \cdots + 2u + 1)(u^{54} + 5u^{53} + \cdots + 528u + 49)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{18} - 22y^{17} + \cdots + y + 1)$ $\cdot (y^{54} - 121y^{53} + \cdots + 1173617520891y + 16983563041)$
c_2, c_7	$(y^{18} - 14y^{17} + \cdots - 11y + 1)$ $\cdot (y^{54} - 57y^{53} + \cdots - 4309293y + 130321)$
c_3, c_9	$(y^{18} + 12y^{17} + \cdots + 11y + 1)(y^{54} - 3y^{53} + \cdots - 82743y + 1369)$
c_4, c_{12}	$(y^{18} + 10y^{17} + \cdots + 14y + 1)(y^{54} + 43y^{53} + \cdots - 40056y + 2401)$
c_5, c_6, c_{10}	$(y^{18} + 22y^{17} + \cdots + 14y + 1)(y^{54} + 43y^{53} + \cdots + 236656y + 20449)$
c_8	$(y^{18} + 12y^{17} + \cdots + 11y + 1)(y^{54} + 17y^{53} + \cdots + 1393y + 121)$
c_{11}	$(y^{18} - y^{17} + \cdots - 22y + 1)(y^{54} - 12y^{53} + \cdots - 2068032y + 192721)$