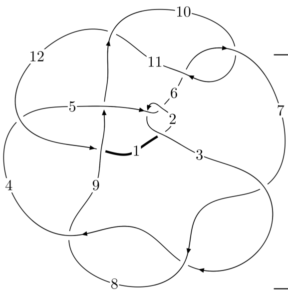
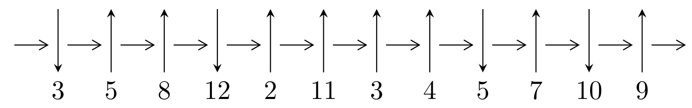
$12n_{0348}$ $(K12n_{0348})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & 2.60524 \times 10^{82} u^{54} + 4.32163 \times 10^{82} u^{53} + \cdots + 2.31107 \times 10^{83} b + 9.23794 \times 10^{83}, \\ & -5.24600 \times 10^{82} u^{54} - 1.43004 \times 10^{83} u^{53} + \cdots + 2.31107 \times 10^{83} a + 3.49791 \times 10^{83}, \\ & u^{55} + 3u^{54} + \cdots - 12u - 11 \rangle \\ I_2^u = \langle & u^{15} - u^{14} + \cdots + b + 5,\ 10u^{15} - 26u^{14} + \cdots + a - 13,\ u^{16} - 2u^{15} + \cdots + 8u^2 + 1 \rangle \end{aligned}$$

* 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. $I^u_1 = \langle 2.61\times10^{82}u^{54}+4.32\times10^{82}u^{53}+\cdots+2.31\times10^{83}b+9.24\times10^{83},\ -5.25\times10^{82}u^{54}-1.43\times10^{83}u^{53}+\cdots+2.31\times10^{83}a+3.50\times10^{83},\ u^{55}+3u^{54}+\cdots-12u-11\rangle$

(i) Arc colorings

$$a_4 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_5 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_8 = \begin{pmatrix}0.226994u^{54}+0.618778u^{53}+\cdots-10.4791u-1.51354\\-0.112728u^{54}-0.186996u^{53}+\cdots-4.08158u-3.99725\end{pmatrix}$$
$$a_9 = \begin{pmatrix}0.114266u^{54}+0.431782u^{53}+\cdots-14.5607u-5.51080\\-0.112728u^{54}-0.186996u^{53}+\cdots-4.08158u-3.99725\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}0.107387u^{54}+0.305810u^{53}+\cdots-8.15437u-0.534709\\-0.0799915u^{54}-0.0948860u^{53}+\cdots-5.42127u-5.15595\end{pmatrix}$$
$$a_1 = \begin{pmatrix}0.908704u^{54}+3.08911u^{53}+\cdots-23.8651u-16.2385\\-0.447095u^{54}-1.15334u^{53}+\cdots+7.94778u-2.70823\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-0.172479u^{54}-1.13662u^{53}+\cdots+24.4494u+14.6350\\-0.0737233u^{54}-0.0490777u^{53}+\cdots+2.74375u-3.73277\end{pmatrix}$$
$$a_2 = \begin{pmatrix}0.0660274u^{54}-0.351978u^{53}+\cdots+12.3782u+11.5567\\-0.207205u^{54}-0.434267u^{53}+\cdots+6.19685u-2.97237\end{pmatrix}$$
$$a_6 = \begin{pmatrix}0.0217548u^{54}-0.00585046u^{53}+\cdots-3.61926u-1.19908\\0.340641u^{54}+0.992765u^{53}+\cdots-11.1110u+1.49013\end{pmatrix}$$
$$a_7 = \begin{pmatrix}0.281862u^{54}+1.12478u^{53}+\cdots-14.1050u-9.98072\\-0.0168458u^{54}-0.208276u^{53}+\cdots+6.42777u+1.43253\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0.520294u^{54}+1.83552u^{53}+\cdots-15.1557u-6.44576\\-0.335273u^{54}-1.03983u^{53}+\cdots+8.71346u-0.0705450\end{pmatrix}$$

(ii) Obstruction class $=-1$

(iii) Cusp Shapes $=-0.313768u^{54}-0.790410u^{53}+\cdots+2.10169u-8.23967$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{55} + 63u^{54} + \cdots - 20918u - 169$
c_2, c_5	$u^{55} + u^{54} + \cdots + 86u - 13$
c_3, c_7, c_8	$u^{55} + u^{54} + \cdots + 22u^2 - 23$
c_4	$u^{55} + 3u^{54} + \cdots - 12u - 11$
c_6, c_{10}	$u^{55} - 3u^{54} + \cdots + 84u - 17$
c_9	$u^{55} - u^{54} + \cdots - 325045u - 237989$
c_{11}	$u^{55} + 37u^{54} + \cdots - 1784u - 289$
c_{12}	$u^{55} + 11u^{54} + \cdots + 89882u + 16337$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{55} - 137y^{54} + \cdots + 108847246y - 28561$
c_2, c_5	$y^{55} + 63y^{54} + \cdots - 20918y - 169$
c_3, c_7, c_8	$y^{55} - 43y^{54} + \cdots + 1012y - 529$
c_4	$y^{55} + 21y^{54} + \cdots - 4740y - 121$
c_6, c_{10}	$y^{55} + 37y^{54} + \cdots - 1784y - 289$
c_9	$y^{55} - 23y^{54} + \cdots - 63034731065y - 56638764121$
c_{11}	$y^{55} - 27y^{54} + \cdots - 78420y - 83521$
c_{12}	$y^{55} - 3y^{54} + \cdots + 4960988170y - 266897569$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.815485 + 0.609992I$ $a = 0.716376 - 0.340161I$ $b = -1.240990 + 0.607346I$	$-3.46247 - 2.90307I$	$4.19084 + 1.32778I$
$u = -0.815485 - 0.609992I$ $a = 0.716376 + 0.340161I$ $b = -1.240990 - 0.607346I$	$-3.46247 + 2.90307I$	$4.19084 - 1.32778I$
$u = -0.766697 + 0.587191I$ $a = 0.121340 - 0.656968I$ $b = -0.288763 - 0.617191I$	$-3.36899 + 1.08421I$	$-1.34816 - 2.39352I$
$u = -0.766697 - 0.587191I$ $a = 0.121340 + 0.656968I$ $b = -0.288763 + 0.617191I$	$-3.36899 - 1.08421I$	$-1.34816 + 2.39352I$
$u = -0.342407 + 0.888408I$ $a = -0.352056 + 0.222676I$ $b = 0.093000 + 0.425608I$	$0.55048 + 1.48371I$	$4.97976 - 5.81830I$
$u = -0.342407 - 0.888408I$ $a = -0.352056 - 0.222676I$ $b = 0.093000 - 0.425608I$	$0.55048 - 1.48371I$	$4.97976 + 5.81830I$
$u = -0.181810 + 1.053110I$ $a = -0.138751 + 0.733731I$ $b = 0.759862 + 0.688944I$	$-3.21509 + 2.62066I$	$1.87813 - 3.80550I$
$u = -0.181810 - 1.053110I$ $a = -0.138751 - 0.733731I$ $b = 0.759862 - 0.688944I$	$-3.21509 - 2.62066I$	$1.87813 + 3.80550I$
$u = -0.722892 + 0.803711I$ $a = 2.14118 - 1.56678I$ $b = -1.38166 - 0.45730I$	$-7.22887 + 2.83374I$	$2.38389 - 3.49922I$
$u = -0.722892 - 0.803711I$ $a = 2.14118 + 1.56678I$ $b = -1.38166 + 0.45730I$	$-7.22887 - 2.83374I$	$2.38389 + 3.49922I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.173002 + 0.887529I$ $a = 2.29349 + 0.99676I$ $b = -1.53634 + 0.17332I$	$7.27746 - 3.45379I$	$10.27416 + 1.32847I$
$u = 0.173002 - 0.887529I$ $a = 2.29349 - 0.99676I$ $b = -1.53634 - 0.17332I$	$7.27746 + 3.45379I$	$10.27416 - 1.32847I$
$u = 0.628360 + 0.597283I$ $a = 1.092470 - 0.206282I$ $b = -0.537582 - 0.337146I$	$-0.59371 - 3.25938I$	$2.97394 - 0.66796I$
$u = 0.628360 - 0.597283I$ $a = 1.092470 + 0.206282I$ $b = -0.537582 + 0.337146I$	$-0.59371 + 3.25938I$	$2.97394 + 0.66796I$
$u = -0.711127 + 0.948848I$ $a = -0.966349 + 0.247086I$ $b = 1.34857 - 0.64792I$	$-6.77729 + 2.66101I$	0
$u = -0.711127 - 0.948848I$ $a = -0.966349 - 0.247086I$ $b = 1.34857 + 0.64792I$	$-6.77729 - 2.66101I$	0
$u = 0.800334 + 0.884723I$ $a = 0.677563 - 0.092095I$ $b = -0.119062 + 1.076690I$	$-6.90102 - 2.99599I$	0
$u = 0.800334 - 0.884723I$ $a = 0.677563 + 0.092095I$ $b = -0.119062 - 1.076690I$	$-6.90102 + 2.99599I$	0
$u = -0.598983 + 1.067040I$ $a = 0.455882 - 0.093492I$ $b = 0.309654 - 0.497235I$	$-1.80177 + 4.16956I$	0
$u = -0.598983 - 1.067040I$ $a = 0.455882 + 0.093492I$ $b = 0.309654 + 0.497235I$	$-1.80177 - 4.16956I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.992759 + 0.740017I$ $a = -0.766608 - 0.114418I$ $b = 0.059829 - 0.980635I$	$-11.75940 + 2.31711I$	0
$u = 0.992759 - 0.740017I$ $a = -0.766608 + 0.114418I$ $b = 0.059829 + 0.980635I$	$-11.75940 - 2.31711I$	0
$u = 0.682830 + 0.316170I$ $a = 0.666716 - 0.682016I$ $b = -0.911518 - 0.401923I$	$-1.67294 + 2.77507I$	$2.05247 - 3.78121I$
$u = 0.682830 - 0.316170I$ $a = 0.666716 + 0.682016I$ $b = -0.911518 + 0.401923I$	$-1.67294 - 2.77507I$	$2.05247 + 3.78121I$
$u = -0.648251 + 1.072510I$ $a = -0.698611 + 0.921968I$ $b = 0.946204 + 0.085319I$	$1.85295 + 1.10015I$	0
$u = -0.648251 - 1.072510I$ $a = -0.698611 - 0.921968I$ $b = 0.946204 - 0.085319I$	$1.85295 - 1.10015I$	0
$u = 0.577460 + 1.116900I$ $a = -1.83686 - 1.43049I$ $b = 1.113190 - 0.366716I$	$0.58204 - 7.69168I$	0
$u = 0.577460 - 1.116900I$ $a = -1.83686 + 1.43049I$ $b = 1.113190 + 0.366716I$	$0.58204 + 7.69168I$	0
$u = 0.461578 + 1.175220I$ $a = 1.85272 + 0.82840I$ $b = -1.234160 + 0.257600I$	$4.47795 - 4.19285I$	0
$u = 0.461578 - 1.175220I$ $a = 1.85272 - 0.82840I$ $b = -1.234160 - 0.257600I$	$4.47795 + 4.19285I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.264238+0.685778I$ $a=\ \ 0.53501-4.66877I$ $b=-0.937038+0.123287I$	$-4.80330-0.56532I$	$4.34221-3.19087I$
$u=-0.264238-0.685778I$ $a=\ \ 0.53501+4.66877I$ $b=-0.937038-0.123287I$	$-4.80330+0.56532I$	$4.34221+3.19087I$
$u=-0.712473+1.066430I$ $a=-1.88688+1.00057I$ $b=\ \ 1.41881+0.51710I$	$-2.09404+8.67779I$	0
$u=-0.712473-1.066430I$ $a=-1.88688-1.00057I$ $b=\ \ 1.41881-0.51710I$	$-2.09404-8.67779I$	0
$u=-0.004077+0.715907I$ $a=-3.38106-1.04947I$ $b=\ \ 1.53871+0.03923I$	$6.53124+2.75926I$	$7.77095-4.45417I$
$u=-0.004077-0.715907I$ $a=-3.38106+1.04947I$ $b=\ \ 1.53871-0.03923I$	$6.53124-2.75926I$	$7.77095+4.45417I$
$u=\ \ 0.119783+0.703838I$ $a=-0.805794+0.305998I$ $b=\ \ 0.362409+0.453693I$	$1.003320+0.902305I$	$8.30926-5.19000I$
$u=\ \ 0.119783-0.703838I$ $a=-0.805794-0.305998I$ $b=\ \ 0.362409-0.453693I$	$1.003320-0.902305I$	$8.30926+5.19000I$
$u=\ \ 0.995644+0.888830I$ $a=-1.031330-0.818819I$ $b=\ \ 1.356040-0.197721I$	$1.77258-3.90284I$	0
$u=\ \ 0.995644-0.888830I$ $a=-1.031330+0.818819I$ $b=\ \ 1.356040+0.197721I$	$1.77258+3.90284I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.126954 + 1.333810I$ $a = -1.95011 + 0.22052I$ $b = 1.128790 - 0.066319I$	$3.06772 - 0.82361I$	0
$u = 0.126954 - 1.333810I$ $a = -1.95011 - 0.22052I$ $b = 1.128790 + 0.066319I$	$3.06772 + 0.82361I$	0
$u = 0.813384 + 1.075410I$ $a = -0.501571 + 0.076047I$ $b = 0.070094 - 1.130120I$	$-10.66830 - 8.91439I$	0
$u = 0.813384 - 1.075410I$ $a = -0.501571 - 0.076047I$ $b = 0.070094 + 1.130120I$	$-10.66830 + 8.91439I$	0
$u = 0.650155$ $a = -0.555963$ $b = 0.901498$	1.30158	8.19850
$u = -1.222360 + 0.639856I$ $a = -0.680782 + 0.122900I$ $b = 1.288840 - 0.499125I$	$-7.94459 - 7.58411I$	0
$u = -1.222360 - 0.639856I$ $a = -0.680782 - 0.122900I$ $b = 1.288840 + 0.499125I$	$-7.94459 + 7.58411I$	0
$u = -1.035520 + 0.922159I$ $a = 0.550770 - 0.481659I$ $b = -0.990991 - 0.201391I$	$0.50650 + 5.61395I$	0
$u = -1.035520 - 0.922159I$ $a = 0.550770 + 0.481659I$ $b = -0.990991 + 0.201391I$	$0.50650 - 5.61395I$	0
$u = -0.82989 + 1.20266I$ $a = 1.60979 - 0.92855I$ $b = -1.40604 - 0.54304I$	$-6.0591 + 14.8324I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.82989 - 1.20266I$ $a = 1.60979 + 0.92855I$ $b = -1.40604 + 0.54304I$	$-6.0591 - 14.8324I$	0
$u = 0.69303 + 1.48402I$ $a = 1.37520 + 0.37724I$ $b = -1.330370 + 0.097750I$	$3.52220 - 3.74412I$	0
$u = 0.69303 - 1.48402I$ $a = 1.37520 - 0.37724I$ $b = -1.330370 - 0.097750I$	$3.52220 + 3.74412I$	0
$u = -0.033996 + 0.282179I$ $a = -0.63193 - 1.74588I$ $b = -0.830222 - 0.601183I$	$-1.96989 + 2.37563I$	$-2.00410 - 0.86695I$
$u = -0.033996 - 0.282179I$ $a = -0.63193 + 1.74588I$ $b = -0.830222 + 0.601183I$	$-1.96989 - 2.37563I$	$-2.00410 + 0.86695I$

II.
$I_2^u = \langle u^{15}-u^{14}+\cdots+b+5,\ 10u^{15}-26u^{14}+\cdots+a-13,\ u^{16}-2u^{15}+\cdots+8u^2+1\rangle$

(i) Arc colorings

$$a_4 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_5 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-10u^{15}+26u^{14}+\cdots-32u+13\\-u^{15}+u^{14}+\cdots-6u-5\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-11u^{15}+27u^{14}+\cdots-38u+8\\-u^{15}+u^{14}+\cdots-6u-5\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}-6u^{15}+16u^{14}+\cdots-21u+8\\-2u^{15}+4u^{14}+\cdots-11u-4\end{pmatrix}$$
$$a_1 = \begin{pmatrix}-26u^{15}+57u^{14}+\cdots-103u+12\\-u^{15}+u^{14}+\cdots-5u-7\end{pmatrix}$$
$$a_3 = \begin{pmatrix}6u^{15}-13u^{14}+\cdots+31u-6\\u^{15}-2u^{14}+\cdots+2u+1\end{pmatrix}$$
$$a_2 = \begin{pmatrix}5u^{15}-11u^{14}+\cdots+23u-6\\u^{15}-2u^{14}+\cdots+3u+1\end{pmatrix}$$
$$a_6 = \begin{pmatrix}6u^{15}-7u^{14}+\cdots+20u+24\\-u^{15}+3u^{14}+\cdots-8u+3\end{pmatrix}$$
$$a_7 = \begin{pmatrix}-2u^{15}-8u^{13}+\cdots-10u-10\\-3u^{15}+6u^{14}+\cdots+2u-1\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}-13u^{15}+30u^{14}+\cdots-46u+14\\-2u^{15}+5u^{14}+\cdots-11u-4\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -13u^{15}+19u^{14}-69u^{13}+42u^{12}-161u^{11}+50u^{10}-278u^9-24u^8-320u^7-121u^6-269u^5-156u^4-127u^3-89u^2-34u-13$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - 16u^{15} + \cdots - 10u + 1$
c_2	$u^{16} + 8u^{14} + \cdots - 2u + 1$
c_3	$u^{16} - 9u^{14} + \cdots - 2u + 1$
c_4	$u^{16} - 2u^{15} + \cdots + 8u^2 + 1$
c_5	$u^{16} + 8u^{14} + \cdots + 2u + 1$
c_6	$u^{16} - 2u^{15} + \cdots + 6u^2 + 1$
c_7, c_8	$u^{16} - 9u^{14} + \cdots + 2u + 1$
c_9	$u^{16} + 5u^{14} + \cdots - u + 1$
c_{10}	$u^{16} + 2u^{15} + \cdots + 6u^2 + 1$
c_{11}	$u^{16} + 10u^{15} + \cdots + 12u + 1$
c_{12}	$u^{16} + 4u^{15} + \cdots - 4u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{16} - 28y^{15} + \cdots + 14y + 1$
c_2, c_5	$y^{16} + 16y^{15} + \cdots + 10y + 1$
c_3, c_7, c_8	$y^{16} - 18y^{15} + \cdots - 8y + 1$
c_4	$y^{16} + 10y^{15} + \cdots + 16y + 1$
c_6, c_{10}	$y^{16} + 10y^{15} + \cdots + 12y + 1$
c_9	$y^{16} + 10y^{15} + \cdots - 3y + 1$
c_{11}	$y^{16} + 2y^{15} + \cdots + 116y^2 + 1$
c_{12}	$y^{16} - 18y^{15} + \cdots - 18y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.350363 + 0.993044I$ $a = 2.25243 + 0.60422I$ $b = -1.57289 + 0.06836I$	$7.04961 - 4.51747I$	$8.24086 + 7.83910I$
$u = 0.350363 - 0.993044I$ $a = 2.25243 - 0.60422I$ $b = -1.57289 - 0.06836I$	$7.04961 + 4.51747I$	$8.24086 - 7.83910I$
$u = -0.456936 + 0.974335I$ $a = 0.404980 - 0.137063I$ $b = -0.206051 + 0.434618I$	$0.278731 + 0.366040I$	$1.63031 + 1.02999I$
$u = -0.456936 - 0.974335I$ $a = 0.404980 + 0.137063I$ $b = -0.206051 - 0.434618I$	$0.278731 - 0.366040I$	$1.63031 - 1.02999I$
$u = -0.662155 + 0.891568I$ $a = -0.504166 - 0.322965I$ $b = 0.445897 - 0.129011I$	$-0.48155 + 4.22871I$	$4.96713 - 5.93885I$
$u = -0.662155 - 0.891568I$ $a = -0.504166 + 0.322965I$ $b = 0.445897 + 0.129011I$	$-0.48155 - 4.22871I$	$4.96713 + 5.93885I$
$u = 0.298303 + 0.834732I$ $a = -2.78859 - 0.76333I$ $b = 1.53191 + 0.14525I$	$6.39960 + 1.79888I$	$5.99730 + 2.83305I$
$u = 0.298303 - 0.834732I$ $a = -2.78859 + 0.76333I$ $b = 1.53191 - 0.14525I$	$6.39960 - 1.79888I$	$5.99730 - 2.83305I$
$u = -0.151801 + 0.742615I$ $a = -0.396145 + 0.508651I$ $b = 0.802627 + 0.720454I$	$-1.41056 + 2.69993I$	$9.52017 - 6.18932I$
$u = -0.151801 - 0.742615I$ $a = -0.396145 - 0.508651I$ $b = 0.802627 - 0.720454I$	$-1.41056 - 2.69993I$	$9.52017 + 6.18932I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.00049 + 1.08266I$ $a = -1.056910 - 0.800884I$ $b = 1.264430 - 0.093351I$	$2.43732 - 5.15744I$	$6.97467 + 7.14862I$
$u = 1.00049 - 1.08266I$ $a = -1.056910 + 0.800884I$ $b = 1.264430 + 0.093351I$	$2.43732 + 5.15744I$	$6.97467 - 7.14862I$
$u = -0.065045 + 0.511799I$ $a = 0.23309 - 5.26621I$ $b = -0.984688 - 0.343350I$	$-4.96869 + 1.33549I$	$1.55153 - 5.45385I$
$u = -0.065045 - 0.511799I$ $a = 0.23309 + 5.26621I$ $b = -0.984688 + 0.343350I$	$-4.96869 - 1.33549I$	$1.55153 + 5.45385I$
$u = 0.68678 + 1.39506I$ $a = 1.35532 + 0.47861I$ $b = -1.281240 + 0.198078I$	$3.85501 - 2.73104I$	$9.11804 - 0.26783I$
$u = 0.68678 - 1.39506I$ $a = 1.35532 - 0.47861I$ $b = -1.281240 - 0.198078I$	$3.85501 + 2.73104I$	$9.11804 + 0.26783I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{16} - 16u^{15} + \cdots - 10u + 1)(u^{55} + 63u^{54} + \cdots - 20918u - 169)$
c_2	$(u^{16} + 8u^{14} + \cdots - 2u + 1)(u^{55} + u^{54} + \cdots + 86u - 13)$
c_3	$(u^{16} - 9u^{14} + \cdots - 2u + 1)(u^{55} + u^{54} + \cdots + 22u^2 - 23)$
c_4	$(u^{16} - 2u^{15} + \cdots + 8u^2 + 1)(u^{55} + 3u^{54} + \cdots - 12u - 11)$
c_5	$(u^{16} + 8u^{14} + \cdots + 2u + 1)(u^{55} + u^{54} + \cdots + 86u - 13)$
c_6	$(u^{16} - 2u^{15} + \cdots + 6u^2 + 1)(u^{55} - 3u^{54} + \cdots + 84u - 17)$
c_7, c_8	$(u^{16} - 9u^{14} + \cdots + 2u + 1)(u^{55} + u^{54} + \cdots + 22u^2 - 23)$
c_9	$(u^{16} + 5u^{14} + \cdots - u + 1)(u^{55} - u^{54} + \cdots - 325045u - 237989)$
c_{10}	$(u^{16} + 2u^{15} + \cdots + 6u^2 + 1)(u^{55} - 3u^{54} + \cdots + 84u - 17)$
c_{11}	$(u^{16} + 10u^{15} + \cdots + 12u + 1)(u^{55} + 37u^{54} + \cdots - 1784u - 289)$
c_{12}	$(u^{16} + 4u^{15} + \cdots - 4u + 1)(u^{55} + 11u^{54} + \cdots + 89882u + 16337)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{16}-28y^{15}+\cdots+14y+1)$ $\cdot(y^{55}-137y^{54}+\cdots+108847246y-28561)$
c_2, c_5	$(y^{16}+16y^{15}+\cdots+10y+1)(y^{55}+63y^{54}+\cdots-20918y-169)$
c_3, c_7, c_8	$(y^{16}-18y^{15}+\cdots-8y+1)(y^{55}-43y^{54}+\cdots+1012y-529)$
c_4	$(y^{16}+10y^{15}+\cdots+16y+1)(y^{55}+21y^{54}+\cdots-4740y-121)$
c_6, c_{10}	$(y^{16}+10y^{15}+\cdots+12y+1)(y^{55}+37y^{54}+\cdots-1784y-289)$
c_9	$(y^{16}+10y^{15}+\cdots-3y+1)$ $\cdot(y^{55}-23y^{54}+\cdots-63034731065y-56638764121)$
c_{11}	$(y^{16}+2y^{15}+\cdots+116y^2+1)(y^{55}-27y^{54}+\cdots-78420y-83521)$
c_{12}	$(y^{16}-18y^{15}+\cdots-18y+1)$ $\cdot(y^{55}-3y^{54}+\cdots+4960988170y-266897569)$