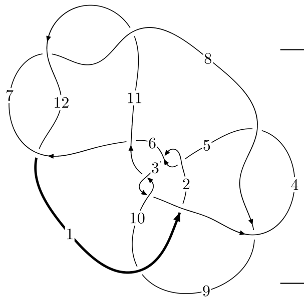
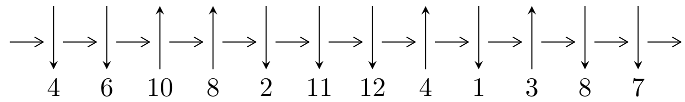
$12n_{0795}$ ($K12n_{0795}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle &-1.02240 \times 10^{36} u^{53} - 1.89768 \times 10^{37} u^{52} + \cdots + 3.08931 \times 10^{37} b + 8.64765 \times 10^{37}, \\
&- 3.79905 \times 10^{37} u^{53} - 2.32864 \times 10^{37} u^{52} + \cdots + 3.39824 \times 10^{38} a + 7.15973 \times 10^{38}, \\
&u^{54} + 2u^{53} + \cdots - 68u - 11 \rangle \\
I_2^u = \langle &-u^{14} - 7u^{12} - 18u^{10} + u^9 - 19u^8 + 5u^7 - 4u^6 + 7u^5 + 3u^4 + u^3 - u^2 + b - 3u, \\
&- u^{14} + 2u^{13} - 9u^{12} + 15u^{11} - 31u^{10} + 43u^9 - 50u^8 + 56u^7 - 35u^6 + 26u^5 - 3u^4 - 6u^3 + 7u^2 + a - 5u + 4, \\
&u^{15} - u^{14} + 9u^{13} - 8u^{12} + 32u^{11} - 25u^{10} + 55u^9 - 37u^8 + 42u^7 - 22u^6 + 4u^5 + 3u^4 - 8u^3 + 7u^2 + 1 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 69 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. $\boldsymbol{I_1^u = \langle -1.02 \times 10^{36} u^{53} - 1.90 \times 10^{37} u^{52} + \cdots + 3.09 \times 10^{37} b + 8.65 \times 10^{37},\ -3.80 \times 10^{37} u^{53} - 2.33 \times 10^{37} u^{52} + \cdots + 3.40 \times 10^{38} a + 7.16 \times 10^{38},\ u^{54} + 2u^{53} + \cdots - 68u - 11 \rangle}$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 0.111794u^{53} + 0.0685248u^{52} + \cdots - 6.32751u - 2.10689 \\ 0.0330947u^{53} + 0.614273u^{52} + \cdots - 14.1115u - 2.79922 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} u^3 + 2u \\ u^3 + u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -0.0462518u^{53} - 0.197231u^{52} + \cdots + 18.3660u + 3.41252 \\ -0.0768640u^{53} + 0.598332u^{52} + \cdots - 7.25300u - 0.884533 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 0.598411u^{53} + 0.724886u^{52} + \cdots - 4.83758u - 2.53344 \\ 0.644293u^{53} + 0.0999628u^{52} + \cdots + 2.37484u - 0.981251 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0.869370u^{53} + 1.10346u^{52} + \cdots - 57.0809u - 12.2337 \\ 0.758825u^{53} + 2.10666u^{52} + \cdots - 76.2371u - 14.3877 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -0.598411u^{53} - 0.724886u^{52} + \cdots + 4.83758u + 2.53344 \\ 0.0503708u^{53} + 0.206592u^{52} + \cdots + 23.1342u + 6.17254 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 1.21296u^{53} + 1.80879u^{52} + \cdots - 76.8483u - 15.7970 \\ 0.882160u^{53} + 2.58325u^{52} + \cdots - 91.2590u - 17.2428 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.660515u^{53} - 1.00096u^{52} + \cdots - 64.0934u - 26.6095$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{54} - u^{53} + \cdots + 161u - 7$
c_2, c_5	$u^{54} + 4u^{53} + \cdots + 100u - 7$
c_3, c_{10}	$u^{54} + u^{53} + \cdots - 24u + 79$
c_4, c_8	$u^{54} - 3u^{53} + \cdots - 1056u + 279$
c_6	$u^{54} - 2u^{53} + \cdots - 9058u - 3839$
c_7, c_{11}, c_{12}	$u^{54} + 2u^{53} + \cdots - 68u - 11$
c_9	$u^{54} + u^{53} + \cdots + 34u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{54} + 53y^{53} + \cdots - 8141y + 49$
c_2, c_5	$y^{54} - 22y^{53} + \cdots - 10854y + 49$
c_3, c_{10}	$y^{54} + 49y^{53} + \cdots - 26804y + 6241$
c_4, c_8	$y^{54} - 59y^{53} + \cdots - 3109428y + 77841$
c_6	$y^{54} + 4y^{53} + \cdots + 184125862y + 14737921$
c_7, c_{11}, c_{12}	$y^{54} + 52y^{53} + \cdots - 1082y + 121$
c_9	$y^{54} + 55y^{53} + \cdots - 1762y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.881137 + 0.332755I$ $a = 0.54399 - 2.13485I$ $b = -0.39987 - 1.44588I$	$-1.46224 + 9.75579I$	$-6.92865 - 6.33368I$
$u = -0.881137 - 0.332755I$ $a = 0.54399 + 2.13485I$ $b = -0.39987 + 1.44588I$	$-1.46224 - 9.75579I$	$-6.92865 + 6.33368I$
$u = -0.661598 + 0.849697I$ $a = 0.701547 - 1.110120I$ $b = 0.308972 - 1.370990I$	$0.12696 - 4.49631I$	$-5.88481 + 2.41612I$
$u = -0.661598 - 0.849697I$ $a = 0.701547 + 1.110120I$ $b = 0.308972 + 1.370990I$	$0.12696 + 4.49631I$	$-5.88481 - 2.41612I$
$u = 0.862493 + 0.086515I$ $a = -0.43056 - 2.27902I$ $b = 0.194758 - 1.252480I$	$-5.81257 - 2.56927I$	$-8.23844 + 3.31387I$
$u = 0.862493 - 0.086515I$ $a = -0.43056 + 2.27902I$ $b = 0.194758 + 1.252480I$	$-5.81257 + 2.56927I$	$-8.23844 - 3.31387I$
$u = 0.034093 + 1.169890I$ $a = 0.694656 + 1.176320I$ $b = -0.07515 + 1.63362I$	$-5.56210 - 0.29699I$	0
$u = 0.034093 - 1.169890I$ $a = 0.694656 - 1.176320I$ $b = -0.07515 - 1.63362I$	$-5.56210 + 0.29699I$	0
$u = -0.061275 + 1.202860I$ $a = -1.171810 - 0.220502I$ $b = 0.682474 + 0.808517I$	$4.62735 + 2.61524I$	0
$u = -0.061275 - 1.202860I$ $a = -1.171810 + 0.220502I$ $b = 0.682474 - 0.808517I$	$4.62735 - 2.61524I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.703654 + 0.331302I$ $a = -0.449981 + 0.493740I$ $b = -0.953667 + 0.272713I$	$3.98978 - 4.89959I$	$-3.74361 + 5.61016I$
$u = 0.703654 - 0.331302I$ $a = -0.449981 - 0.493740I$ $b = -0.953667 - 0.272713I$	$3.98978 + 4.89959I$	$-3.74361 - 5.61016I$
$u = 0.517589 + 0.579128I$ $a = 0.432842 - 1.079910I$ $b = 0.686610 + 0.121861I$	$4.91286 + 0.83348I$	$-0.991616 + 0.466967I$
$u = 0.517589 - 0.579128I$ $a = 0.432842 + 1.079910I$ $b = 0.686610 - 0.121861I$	$4.91286 - 0.83348I$	$-0.991616 - 0.466967I$
$u = -0.660016 + 0.406956I$ $a = -1.06148 + 1.12929I$ $b = 0.127395 + 1.287570I$	$-6.55286 + 2.04235I$	$-7.25331 - 3.50673I$
$u = -0.660016 - 0.406956I$ $a = -1.06148 - 1.12929I$ $b = 0.127395 - 1.287570I$	$-6.55286 - 2.04235I$	$-7.25331 + 3.50673I$
$u = -0.152086 + 1.230400I$ $a = -2.21560 + 0.95171I$ $b = -0.022858 + 1.045750I$	$4.59893 - 0.06572I$	0
$u = -0.152086 - 1.230400I$ $a = -2.21560 - 0.95171I$ $b = -0.022858 - 1.045750I$	$4.59893 + 0.06572I$	0
$u = 0.464769 + 1.178440I$ $a = -0.444192 - 1.161940I$ $b = -0.045829 - 1.278020I$	$-2.46094 - 2.14351I$	0
$u = 0.464769 - 1.178440I$ $a = -0.444192 + 1.161940I$ $b = -0.045829 + 1.278020I$	$-2.46094 + 2.14351I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.718867$ $a=\ \ 0.234022$ $b=\ \ 0.516900$	-2.00172	-2.11670
$u=\ \ 0.618358+0.333206I$ $a=\ \ 1.21587+2.22737I$ $b=-0.07061+1.56445I$	$-7.42325-1.74416I$	$-4.39978+3.82440I$
$u=\ \ 0.618358-0.333206I$ $a=\ \ 1.21587-2.22737I$ $b=-0.07061-1.56445I$	$-7.42325+1.74416I$	$-4.39978-3.82440I$
$u=-0.300837+1.283390I$ $a=\ \ 0.334898-0.433885I$ $b=-0.533318+0.132363I$	$2.00821+3.67955I$	0
$u=-0.300837-1.283390I$ $a=\ \ 0.334898+0.433885I$ $b=-0.533318-0.132363I$	$2.00821-3.67955I$	0
$u=\ \ 0.154982+1.323550I$ $a=\ \ 0.726837-0.314235I$ $b=-0.614893-0.397811I$	$1.72966-2.23286I$	0
$u=\ \ 0.154982-1.323550I$ $a=\ \ 0.726837+0.314235I$ $b=-0.614893+0.397811I$	$1.72966+2.23286I$	0
$u=-0.094235+1.347490I$ $a=-0.883756+0.145148I$ $b=\ \ 0.620923+0.478168I$	$4.77656+2.05407I$	0
$u=-0.094235-1.347490I$ $a=-0.883756-0.145148I$ $b=\ \ 0.620923-0.478168I$	$4.77656-2.05407I$	0
$u=\ \ 0.376292+1.326680I$ $a=\ \ 1.34754+1.24800I$ $b=-0.310469+1.232490I$	$-1.38617-7.00293I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.376292 - 1.326680I$ $a = 1.34754 - 1.24800I$ $b = -0.310469 - 1.232490I$	$-1.38617 + 7.00293I$	0
$u = -0.229873 + 1.369020I$ $a = 1.07939 - 1.70290I$ $b = -0.34520 - 1.44114I$	$6.29624 + 5.50512I$	0
$u = -0.229873 - 1.369020I$ $a = 1.07939 + 1.70290I$ $b = -0.34520 + 1.44114I$	$6.29624 - 5.50512I$	0
$u = -0.201736 + 1.374670I$ $a = -0.069667 - 0.195301I$ $b = 0.77398 - 1.23082I$	$6.68190 + 1.90913I$	0
$u = -0.201736 - 1.374670I$ $a = -0.069667 + 0.195301I$ $b = 0.77398 + 1.23082I$	$6.68190 - 1.90913I$	0
$u = -0.569109 + 0.157556I$ $a = 0.21924 + 4.04070I$ $b = 0.271278 + 1.251950I$	$1.40834 + 2.55636I$	$-7.88899 - 3.76167I$
$u = -0.569109 - 0.157556I$ $a = 0.21924 - 4.04070I$ $b = 0.271278 - 1.251950I$	$1.40834 - 2.55636I$	$-7.88899 + 3.76167I$
$u = 0.26439 + 1.43158I$ $a = -1.176170 - 0.713113I$ $b = 0.20131 - 1.51219I$	$-1.76307 - 5.05086I$	0
$u = 0.26439 - 1.43158I$ $a = -1.176170 + 0.713113I$ $b = 0.20131 + 1.51219I$	$-1.76307 + 5.05086I$	0
$u = 0.27745 + 1.43289I$ $a = -0.482110 - 0.560176I$ $b = 1.128380 - 0.228809I$	$9.62901 - 8.48480I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.27745 - 1.43289I$ $a = -0.482110 + 0.560176I$ $b = 1.128380 + 0.228809I$	$9.62901 + 8.48480I$	0
$u = -0.501917 + 0.181939I$ $a = -0.02666 + 1.76555I$ $b = -0.658368 + 1.057790I$	$1.69160 - 0.71190I$	$-8.63375 - 2.05858I$
$u = -0.501917 - 0.181939I$ $a = -0.02666 - 1.76555I$ $b = -0.658368 - 1.057790I$	$1.69160 + 0.71190I$	$-8.63375 + 2.05858I$
$u = -0.27382 + 1.46493I$ $a = 1.043680 - 0.263678I$ $b = -0.267903 - 1.143590I$	$-0.53926 + 5.52355I$	0
$u = -0.27382 - 1.46493I$ $a = 1.043680 + 0.263678I$ $b = -0.267903 + 1.143590I$	$-0.53926 - 5.52355I$	0
$u = -0.35422 + 1.45911I$ $a = -1.24409 + 1.06931I$ $b = 0.48568 + 1.47325I$	$4.2552 + 14.2219I$	0
$u = -0.35422 - 1.45911I$ $a = -1.24409 - 1.06931I$ $b = 0.48568 - 1.47325I$	$4.2552 - 14.2219I$	0
$u = 0.14172 + 1.50342I$ $a = 0.239640 + 0.749072I$ $b = -0.722793 + 0.242786I$	$11.72290 - 1.51265I$	0
$u = 0.14172 - 1.50342I$ $a = 0.239640 - 0.749072I$ $b = -0.722793 - 0.242786I$	$11.72290 + 1.51265I$	0
$u = 0.475960$ $a = -1.20947$ $b = 0.452125$	-2.46570	2.76380

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.254809+0.273319I$ $a=\ \ 0.778345-0.766727I$ $b=-0.196995-0.477015I$	$-0.216037+0.828510I$	$-5.24914-8.37217I$
$u=-0.254809-0.273319I$ $a=\ \ 0.778345+0.766727I$ $b=-0.196995+0.477015I$	$-0.216037-0.828510I$	$-5.24914+8.37217I$
$u=-0.09766+1.65580I$ $a=-0.169231+0.249301I$ $b=-0.248336+1.196290I$	$8.90251-1.85529I$	0
$u=-0.09766-1.65580I$ $a=-0.169231-0.249301I$ $b=-0.248336-1.196290I$	$8.90251+1.85529I$	0

II.
$$I_2^u = \langle -u^{14}-7u^{12}+\cdots+b-3u,\ -u^{14}+2u^{13}+\cdots+a+4,\ u^{15}-u^{14}+\cdots+7u^2+1\rangle$$

(i) Arc colorings

$$a_8 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_7 = \begin{pmatrix}u\\u^3+u\end{pmatrix}$$
$$a_1 = \begin{pmatrix}u^2+1\\u^4+2u^2\end{pmatrix}$$
$$a_3 = \begin{pmatrix}u^{14}-2u^{13}+\cdots+5u-4\\u^{14}+7u^{12}+18u^{10}-u^9+19u^8-5u^7+4u^6-7u^5-3u^4-u^3+u^2+3u\end{pmatrix}$$
$$a_6 = \begin{pmatrix}u^3+2u\\u^3+u\end{pmatrix}$$
$$a_2 = \begin{pmatrix}-u^{13}+u^{12}+\cdots+4u-4\\u^{14}+7u^{12}+18u^{10}-u^9+19u^8-5u^7+4u^6-7u^5-2u^4-u^3+3u^2+3u\end{pmatrix}$$
$$a_5 = \begin{pmatrix}u^{14}-2u^{13}+\cdots+10u-1\\-2u^{13}+2u^{12}+\cdots+2u-1\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}-2u^{14}+2u^{13}+\cdots-11u+1\\u^{13}-u^{12}+\cdots+6u^2-2u\end{pmatrix}$$
$$a_4 = \begin{pmatrix}u^{14}-2u^{13}+\cdots+10u-1\\-u^{13}+u^{12}+\cdots-5u^2+u\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-2u^{14}+2u^{13}+\cdots-14u+1\\u^{13}-u^{12}+\cdots+6u^2-u\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -3u^{14}+6u^{13}-24u^{12}+42u^{11}-71u^{10}+108u^9-89u^8+115u^7-33u^6+25u^5+9u^4-22u^3-4u^2+2u-3$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{15}+3u^{13}+\cdots-3u-1$
c_2	$u^{15}+3u^{14}+\cdots-3u^2-1$
c_3	$u^{15}+9u^{13}+\cdots-4u^2+1$
c_4	$u^{15}-2u^{14}+\cdots+10u^2-1$
c_5	$u^{15}-3u^{14}+\cdots+3u^2+1$
c_6	$u^{15}-u^{14}+\cdots+2u-1$
c_7	$u^{15}+u^{14}+\cdots-7u^2-1$
c_8	$u^{15}+2u^{14}+\cdots-10u^2+1$
c_9	$u^{15}+6u^{13}+\cdots+3u^2-1$
c_{10}	$u^{15}+9u^{13}+\cdots+4u^2-1$
c_{11}, c_{12}	$u^{15}-u^{14}+\cdots+7u^2+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{15} + 6y^{14} + \cdots + 9y - 1$
c_2, c_5	$y^{15} - 9y^{14} + \cdots - 6y - 1$
c_3, c_{10}	$y^{15} + 18y^{14} + \cdots + 8y - 1$
c_4, c_8	$y^{15} - 6y^{14} + \cdots + 20y - 1$
c_6	$y^{15} + 5y^{14} + \cdots - 18y - 1$
c_7, c_{11}, c_{12}	$y^{15} + 17y^{14} + \cdots - 14y - 1$
c_9	$y^{15} + 12y^{14} + \cdots + 6y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.203897 + 1.182510I$ $a = -0.354319 - 1.221590I$ $b = -0.08173 - 1.61035I$	$-5.71687 - 1.52845I$	$-6.08651 + 4.82612I$
$u = 0.203897 - 1.182510I$ $a = -0.354319 + 1.221590I$ $b = -0.08173 + 1.61035I$	$-5.71687 + 1.52845I$	$-6.08651 - 4.82612I$
$u = -0.033799 + 1.247150I$ $a = -1.91300 + 0.07166I$ $b = 0.496329 + 0.968310I$	$5.47176 + 1.87806I$	$1.95765 - 1.95299I$
$u = -0.033799 - 1.247150I$ $a = -1.91300 - 0.07166I$ $b = 0.496329 - 0.968310I$	$5.47176 - 1.87806I$	$1.95765 + 1.95299I$
$u = 0.695741 + 0.257174I$ $a = -1.14939 - 2.10113I$ $b = 0.10467 - 1.48695I$	$-8.37469 - 1.56439I$	$-13.79063 + 1.52850I$
$u = 0.695741 - 0.257174I$ $a = -1.14939 + 2.10113I$ $b = 0.10467 + 1.48695I$	$-8.37469 + 1.56439I$	$-13.79063 - 1.52850I$
$u = -0.270202 + 1.313250I$ $a = 0.494443 + 0.091423I$ $b = -0.379327 + 0.243587I$	$1.19519 + 3.29133I$	$-5.91213 - 2.50289I$
$u = -0.270202 - 1.313250I$ $a = 0.494443 - 0.091423I$ $b = -0.379327 - 0.243587I$	$1.19519 - 3.29133I$	$-5.91213 + 2.50289I$
$u = -0.641026$ $a = -0.683428$ $b = 0.308804$	-2.98177	-14.5200
$u = 0.33142 + 1.43193I$ $a = 1.189210 + 0.727838I$ $b = -0.179540 + 1.396510I$	$-2.94306 - 5.41071I$	$-8.48695 + 4.16478I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.33142 - 1.43193I$ $a = 1.189210 - 0.727838I$ $b = -0.179540 - 1.396510I$	$-2.94306 + 5.41071I$	$-8.48695 - 4.16478I$
$u = -0.02900 + 1.58206I$ $a = 0.355078 - 0.312207I$ $b = 0.266182 - 0.998489I$	$9.41454 - 1.04650I$	$-0.68107 - 1.40813I$
$u = -0.02900 - 1.58206I$ $a = 0.355078 + 0.312207I$ $b = 0.266182 + 0.998489I$	$9.41454 + 1.04650I$	$-0.68107 + 1.40813I$
$u = -0.077540 + 0.352277I$ $a = -3.28030 + 1.82680I$ $b = -0.380983 + 0.977431I$	$2.44402 - 1.47765I$	$-3.24037 + 1.97101I$
$u = -0.077540 - 0.352277I$ $a = -3.28030 - 1.82680I$ $b = -0.380983 - 0.977431I$	$2.44402 + 1.47765I$	$-3.24037 - 1.97101I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{15}+3u^{13}+\cdots-3u-1)(u^{54}-u^{53}+\cdots+161u-7)$
c_2	$(u^{15}+3u^{14}+\cdots-3u^2-1)(u^{54}+4u^{53}+\cdots+100u-7)$
c_3	$(u^{15}+9u^{13}+\cdots-4u^2+1)(u^{54}+u^{53}+\cdots-24u+79)$
c_4	$(u^{15}-2u^{14}+\cdots+10u^2-1)(u^{54}-3u^{53}+\cdots-1056u+279)$
c_5	$(u^{15}-3u^{14}+\cdots+3u^2+1)(u^{54}+4u^{53}+\cdots+100u-7)$
c_6	$(u^{15}-u^{14}+\cdots+2u-1)(u^{54}-2u^{53}+\cdots-9058u-3839)$
c_7	$(u^{15}+u^{14}+\cdots-7u^2-1)(u^{54}+2u^{53}+\cdots-68u-11)$
c_8	$(u^{15}+2u^{14}+\cdots-10u^2+1)(u^{54}-3u^{53}+\cdots-1056u+279)$
c_9	$(u^{15}+6u^{13}+\cdots+3u^2-1)(u^{54}+u^{53}+\cdots+34u-1)$
c_{10}	$(u^{15}+9u^{13}+\cdots+4u^2-1)(u^{54}+u^{53}+\cdots-24u+79)$
c_{11}, c_{12}	$(u^{15}-u^{14}+\cdots+7u^2+1)(u^{54}+2u^{53}+\cdots-68u-11)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{15}+6y^{14}+\cdots+9y-1)(y^{54}+53y^{53}+\cdots-8141y+49)$
c_2, c_5	$(y^{15}-9y^{14}+\cdots-6y-1)(y^{54}-22y^{53}+\cdots-10854y+49)$
c_3, c_{10}	$(y^{15}+18y^{14}+\cdots+8y-1)(y^{54}+49y^{53}+\cdots-26804y+6241)$
c_4, c_8	$(y^{15}-6y^{14}+\cdots+20y-1)(y^{54}-59y^{53}+\cdots-3109428y+77841)$
c_6	$(y^{15}+5y^{14}+\cdots-18y-1)$ $\cdot(y^{54}+4y^{53}+\cdots+184125862y+14737921)$
c_7, c_{11}, c_{12}	$(y^{15}+17y^{14}+\cdots-14y-1)(y^{54}+52y^{53}+\cdots-1082y+121)$
c_9	$(y^{15}+12y^{14}+\cdots+6y-1)(y^{54}+55y^{53}+\cdots-1762y+1)$