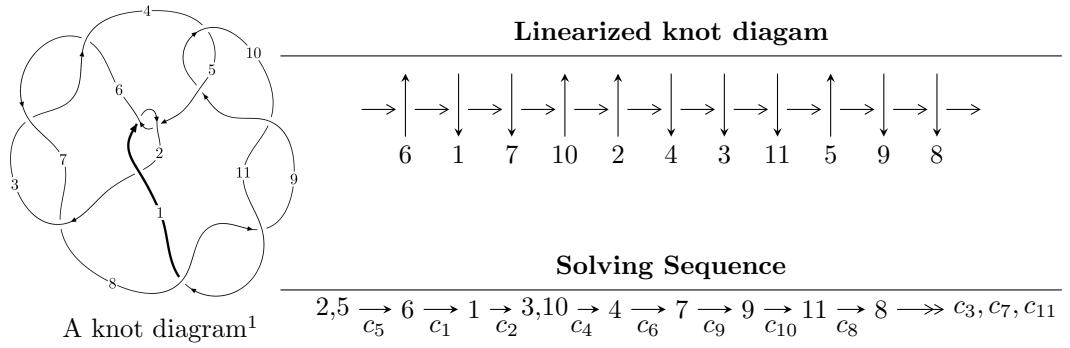


$11a_{103}$ ($K11a_{103}$)



Ideals for irreducible components² of X_{par}

$$\begin{aligned}
 I_1^u &= \langle 3278045625361u^{33} - 962912057641220u^{32} + \dots + 5173973686763240b - 10139327463448051, \\
 &\quad 165318083439065u^{33} - 292527248838037u^{32} + \dots + 517397368676324a - 3832627237028687, \\
 &\quad u^{34} - u^{33} + \dots - 8u + 1 \rangle \\
 I_2^u &= \langle u^9 + 3u^7 + u^6 + 3u^5 + 2u^4 + 3u^3 + u^2 + b + 2u + 1, \\
 &\quad u^{10} + u^9 + 3u^8 + 3u^7 + 3u^6 + 3u^5 + 3u^4 + 3u^3 + 2u^2 + a + 2u, \\
 &\quad u^{12} + 4u^{10} + u^9 + 6u^8 + 3u^7 + 7u^6 + 3u^5 + 7u^4 + 3u^3 + 3u^2 + 2u + 1 \rangle \\
 I_3^u &= \langle 3a^2u - 5a^2 - au + 17b - 4a - 14u - 22, a^3 - a^2u + 5au + 3a - u + 6, u^2 + 1 \rangle
 \end{aligned}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 52 representations.

¹The image of knot diagram is generated by the software “**Draw programme**” developed by Andrew Bartholomew(<http://www.layer8.co.uk/math/draw/index.htm#Running-draw>), where we modified some parts for our purpose(<https://github.com/CATsTAILs/LinksPainter>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I.

$$I_1^u = \langle 3.28 \times 10^{12} u^{33} - 9.63 \times 10^{14} u^{32} + \dots + 5.17 \times 10^{15} b - 1.01 \times 10^{16}, 1.65 \times 10^{14} u^{33} - 2.93 \times 10^{14} u^{32} + \dots + 5.17 \times 10^{14} a - 3.83 \times 10^{15}, u^{34} - u^{33} + \dots - 8u + 1 \rangle$$

(i) Arc colorings

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

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

$$a_6 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.319519u^{33} + 0.565382u^{32} + \dots - 24.1768u + 7.40751 \\ -0.000633564u^{33} + 0.186107u^{32} + \dots - 10.0234u + 1.95968 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -1.45002u^{33} + 1.24609u^{32} + \dots - 56.5835u + 9.19176 \\ -0.466475u^{33} + 0.463665u^{32} + \dots - 14.6958u + 1.41968 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1.41968u^{33} + 0.953207u^{32} + \dots - 24.2367u - 2.33833 \\ 0.230732u^{33} - 0.201881u^{32} + \dots + 6.37702u - 2.17754 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.318885u^{33} + 0.379275u^{32} + \dots - 14.1534u + 5.44783 \\ -0.000633564u^{33} + 0.186107u^{32} + \dots - 10.0234u + 1.95968 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2.20913u^{33} + 2.13366u^{32} + \dots - 73.5810u + 10.9803 \\ -0.401588u^{33} + 0.324840u^{32} + \dots - 16.0702u + 1.25226 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -1.62080u^{33} + 0.922129u^{32} + \dots - 24.3330u - 2.35478 \\ 0.322682u^{33} - 0.130017u^{32} + \dots + 4.06483u - 1.68221 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -1.62080u^{33} + 0.922129u^{32} + \dots - 24.3330u - 2.35478 \\ 0.322682u^{33} - 0.130017u^{32} + \dots + 4.06483u - 1.68221 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes

$$= \frac{2045779387053011}{646746710845405} u^{33} - \frac{400807807432123}{129349342169081} u^{32} + \dots + \frac{62894935432571939}{1293493421690810} u + \frac{471857212990363}{1293493421690810}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{34} - u^{33} + \cdots - 8u + 1$
c_2	$u^{34} + 11u^{33} + \cdots + 24u + 1$
c_3, c_6, c_7	$u^{34} - u^{33} + \cdots - 10u + 1$
c_4, c_9	$u^{34} - 2u^{33} + \cdots - u + 2$
c_8, c_{10}, c_{11}	$u^{34} + 8u^{33} + \cdots + 19u + 4$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{34} + 11y^{33} + \cdots + 24y + 1$
c_2	$y^{34} + 31y^{33} + \cdots + 916y + 1$
c_3, c_6, c_7	$y^{34} + 39y^{33} + \cdots + 56y + 1$
c_4, c_9	$y^{34} + 8y^{33} + \cdots + 19y + 4$
c_8, c_{10}, c_{11}	$y^{34} + 36y^{33} + \cdots + 495y + 16$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.261633 + 0.992110I$		
$a = 0.38508 + 2.26064I$	$-3.37245 - 0.54787I$	$-11.62744 + 0.56640I$
$b = 0.132179 + 0.885169I$		
$u = -0.261633 - 0.992110I$		
$a = 0.38508 - 2.26064I$	$-3.37245 + 0.54787I$	$-11.62744 - 0.56640I$
$b = 0.132179 - 0.885169I$		
$u = -0.026982 + 1.057990I$		
$a = -0.20134 - 1.50601I$	$1.40352 + 2.86614I$	$-6.42514 - 2.90312I$
$b = -0.756642 - 0.885148I$		
$u = -0.026982 - 1.057990I$		
$a = -0.20134 + 1.50601I$	$1.40352 - 2.86614I$	$-6.42514 + 2.90312I$
$b = -0.756642 + 0.885148I$		
$u = 0.744389 + 0.572496I$		
$a = 0.029128 - 1.295630I$	$5.18197 - 3.30193I$	$1.74557 + 3.15747I$
$b = 0.536369 - 0.967768I$		
$u = 0.744389 - 0.572496I$		
$a = 0.029128 + 1.295630I$	$5.18197 + 3.30193I$	$1.74557 - 3.15747I$
$b = 0.536369 + 0.967768I$		
$u = 0.441745 + 0.826611I$		
$a = 0.076268 + 0.399359I$	$-0.14247 + 1.88117I$	$-0.09008 - 3.89150I$
$b = 0.507078 - 0.314037I$		
$u = 0.441745 - 0.826611I$		
$a = 0.076268 - 0.399359I$	$-0.14247 - 1.88117I$	$-0.09008 + 3.89150I$
$b = 0.507078 + 0.314037I$		
$u = 0.625868 + 0.866379I$		
$a = -0.47867 + 2.30688I$	$1.54356 + 2.45179I$	$-3.02847 - 2.63078I$
$b = -0.064010 + 1.041080I$		
$u = 0.625868 - 0.866379I$		
$a = -0.47867 - 2.30688I$	$1.54356 - 2.45179I$	$-3.02847 + 2.63078I$
$b = -0.064010 - 1.041080I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.807854 + 0.740004I$		
$a = -0.120969 - 0.562485I$	$6.89618 - 1.36512I$	$4.50793 + 2.51852I$
$b = 0.748669 - 0.433849I$		
$u = -0.807854 - 0.740004I$		
$a = -0.120969 + 0.562485I$	$6.89618 + 1.36512I$	$4.50793 - 2.51852I$
$b = 0.748669 + 0.433849I$		
$u = -0.492701 + 0.994382I$		
$a = -1.29280 - 2.00761I$	$-1.90809 - 5.35995I$	$-5.93507 + 8.80123I$
$b = 0.397288 - 0.911636I$		
$u = -0.492701 - 0.994382I$		
$a = -1.29280 + 2.00761I$	$-1.90809 + 5.35995I$	$-5.93507 - 8.80123I$
$b = 0.397288 + 0.911636I$		
$u = 1.062640 + 0.522537I$		
$a = 0.515909 + 0.514851I$	$14.3477 - 6.6660I$	$4.12754 + 3.29257I$
$b = -0.866234 + 0.973628I$		
$u = 1.062640 - 0.522537I$		
$a = 0.515909 - 0.514851I$	$14.3477 + 6.6660I$	$4.12754 - 3.29257I$
$b = -0.866234 - 0.973628I$		
$u = 0.708232 + 0.962390I$		
$a = -0.202503 - 0.408506I$	$6.14429 + 2.35773I$	$0.48410 - 2.53993I$
$b = -0.875730 + 0.863176I$		
$u = 0.708232 - 0.962390I$		
$a = -0.202503 + 0.408506I$	$6.14429 - 2.35773I$	$0.48410 + 2.53993I$
$b = -0.875730 - 0.863176I$		
$u = -1.057880 + 0.566930I$		
$a = 0.584986 + 0.484797I$	$14.6663 + 0.1016I$	$4.57906 + 1.48156I$
$b = -0.913890 + 0.874570I$		
$u = -1.057880 - 0.566930I$		
$a = 0.584986 - 0.484797I$	$14.6663 - 0.1016I$	$4.57906 - 1.48156I$
$b = -0.913890 - 0.874570I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.698424 + 1.002800I$		
$a = 1.45163 + 1.39463I$	$5.84725 - 8.71325I$	$-0.27553 + 7.33315I$
$b = -0.837985 + 0.957359I$		
$u = -0.698424 - 1.002800I$		
$a = 1.45163 - 1.39463I$	$5.84725 + 8.71325I$	$-0.27553 - 7.33315I$
$b = -0.837985 - 0.957359I$		
$u = -0.744862 + 0.976632I$		
$a = -0.359731 + 0.249557I$	$6.18222 - 4.46313I$	$3.61159 + 3.03058I$
$b = -0.753616 - 0.286412I$		
$u = -0.744862 - 0.976632I$		
$a = -0.359731 - 0.249557I$	$6.18222 + 4.46313I$	$3.61159 - 3.03058I$
$b = -0.753616 + 0.286412I$		
$u = 0.675576 + 1.053520I$		
$a = 0.94684 - 2.18547I$	$3.77297 + 8.75654I$	$-1.23706 - 8.00625I$
$b = -0.437047 - 1.024080I$		
$u = 0.675576 - 1.053520I$		
$a = 0.94684 + 2.18547I$	$3.77297 - 8.75654I$	$-1.23706 + 8.00625I$
$b = -0.437047 + 1.024080I$		
$u = 0.231881 + 0.577044I$		
$a = 0.813045 + 0.154211I$	$0.165045 + 1.193180I$	$1.28022 - 6.36905I$
$b = -0.304181 - 0.448448I$		
$u = 0.231881 - 0.577044I$		
$a = 0.813045 - 0.154211I$	$0.165045 - 1.193180I$	$1.28022 + 6.36905I$
$b = -0.304181 + 0.448448I$		
$u = -0.779313 + 1.162920I$		
$a = 0.530381 - 0.067533I$	$12.8109 - 6.7247I$	$2.85757 + 2.78604I$
$b = 0.918270 + 0.834445I$		
$u = -0.779313 - 1.162920I$		
$a = 0.530381 + 0.067533I$	$12.8109 + 6.7247I$	$2.85757 - 2.78604I$
$b = 0.918270 - 0.834445I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.756680 + 1.182600I$		
$a = -1.05832 + 1.72508I$	$12.2913 + 13.2218I$	$1.97446 - 7.47226I$
$b = 0.842815 + 0.996957I$		
$u = 0.756680 - 1.182600I$		
$a = -1.05832 - 1.72508I$	$12.2913 - 13.2218I$	$1.97446 + 7.47226I$
$b = 0.842815 - 0.996957I$		
$u = 0.122630 + 0.166148I$		
$a = 4.38106 - 1.67605I$	$4.64121 - 2.76844I$	$5.45074 + 3.04285I$
$b = 0.726668 - 0.862044I$		
$u = 0.122630 - 0.166148I$		
$a = 4.38106 + 1.67605I$	$4.64121 + 2.76844I$	$5.45074 - 3.04285I$
$b = 0.726668 + 0.862044I$		

II.

$$I_2^u = \langle u^9 + 3u^7 + \dots + b + 1, \ u^{10} + u^9 + \dots + a + 2u, \ u^{12} + 4u^{10} + \dots + 2u + 1 \rangle$$

(i) **Arc colorings**

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

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

$$a_6 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{10} - u^9 - 3u^8 - 3u^7 - 3u^6 - 3u^5 - 3u^4 - 3u^3 - 2u^2 - 2u \\ -u^9 - 3u^7 - u^6 - 3u^5 - 2u^4 - 3u^3 - u^2 - 2u - 1 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -u^2 + 1 \\ u^4 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u^{10} - 3u^8 - 2u^6 - u^4 - u^2 + 1 \\ -u^9 - 3u^7 - u^6 - 3u^5 - 2u^4 - 3u^3 - u^2 - 2u - 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^7 + 2u^5 \\ -u^9 - 3u^7 - 3u^5 - 2u^3 - u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u^4 - u^2 + 1 \\ u^6 + 2u^4 + u^2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u^4 - u^2 + 1 \\ u^6 + 2u^4 + u^2 \end{pmatrix}$$

(ii) **Obstruction class** = -1

(iii) **Cusp Shapes** = $-4u^9 - 12u^7 - 4u^6 - 12u^5 - 8u^4 - 16u^3 - 4u^2 - 12u - 6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5 c_6, c_7	$u^{12} + 4u^{10} + u^9 + 6u^8 + 3u^7 + 7u^6 + 3u^5 + 7u^4 + 3u^3 + 3u^2 + 2u + 1$
c_2	$u^{12} + 8u^{11} + \dots + 2u + 1$
c_4, c_9	$(u^4 + u^3 + u^2 + 1)^3$
c_8, c_{10}, c_{11}	$(u^4 + u^3 + 3u^2 + 2u + 1)^3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_5 c_6, c_7	$y^{12} + 8y^{11} + \cdots + 2y + 1$
c_2	$y^{12} - 8y^{11} + \cdots + 18y + 1$
c_4, c_9	$(y^4 + y^3 + 3y^2 + 2y + 1)^3$
c_8, c_{10}, c_{11}	$(y^4 + 5y^3 + 7y^2 + 2y + 1)^3$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.757780 + 0.691817I$		
$a = -0.537761 - 0.236860I$	$6.79074 + 3.16396I$	$1.82674 - 2.56480I$
$b = 0.851808 + 0.911292I$		
$u = -0.757780 - 0.691817I$		
$a = -0.537761 + 0.236860I$	$6.79074 - 3.16396I$	$1.82674 + 2.56480I$
$b = 0.851808 - 0.911292I$		
$u = 0.737742 + 0.749761I$		
$a = -1.39038 + 0.60728I$	$6.79074 + 3.16396I$	$1.82674 - 2.56480I$
$b = 0.851808 + 0.911292I$		
$u = 0.737742 - 0.749761I$		
$a = -1.39038 - 0.60728I$	$6.79074 - 3.16396I$	$1.82674 + 2.56480I$
$b = 0.851808 - 0.911292I$		
$u = 0.337741 + 0.872538I$		
$a = 1.71032 - 1.02179I$	$-0.21101 + 1.41510I$	$-1.82674 - 4.90874I$
$b = -0.351808 - 0.720342I$		
$u = 0.337741 - 0.872538I$		
$a = 1.71032 + 1.02179I$	$-0.21101 - 1.41510I$	$-1.82674 + 4.90874I$
$b = -0.351808 + 0.720342I$		
$u = 0.117310 + 1.208580I$		
$a = -0.74302 + 1.91397I$	$-0.21101 - 1.41510I$	$-1.82674 + 4.90874I$
$b = -0.351808 + 0.720342I$		
$u = 0.117310 - 1.208580I$		
$a = -0.74302 - 1.91397I$	$-0.21101 + 1.41510I$	$-1.82674 - 4.90874I$
$b = -0.351808 - 0.720342I$		
$u = -0.455051 + 0.336038I$		
$a = 0.674975 - 0.426864I$	$-0.21101 + 1.41510I$	$-1.82674 - 4.90874I$
$b = -0.351808 - 0.720342I$		
$u = -0.455051 - 0.336038I$		
$a = 0.674975 + 0.426864I$	$-0.21101 - 1.41510I$	$-1.82674 + 4.90874I$
$b = -0.351808 + 0.720342I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.02004 + 1.44158I$		
$a = 0.28587 - 1.38654I$	$6.79074 - 3.16396I$	$1.82674 + 2.56480I$
$b = 0.851808 - 0.911292I$		
$u = 0.02004 - 1.44158I$		
$a = 0.28587 + 1.38654I$	$6.79074 + 3.16396I$	$1.82674 - 2.56480I$
$b = 0.851808 + 0.911292I$		

III.

$$I_3^u = \langle 3a^2u - 5a^2 - au + 17b - 4a - 14u - 22, \ a^3 - a^2u + 5au + 3a - u + 6, \ u^2 + 1 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_2 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_5 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 1 \\ 1 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -u \\ 0 \end{pmatrix} \\ a_3 &= \begin{pmatrix} u \\ u \end{pmatrix} \\ a_{10} &= \begin{pmatrix} a \\ -0.176471a^2u + 0.0588235au + \dots + 0.235294a + 1.29412 \end{pmatrix} \\ a_4 &= \begin{pmatrix} 0.352941a^2u - 0.117647au + \dots - 0.470588a - 0.588235 \\ 0.352941a^2u - 0.117647au + \dots - 0.470588a - 0.588235 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 0.411765a^2u - 0.470588au + \dots + 0.117647a - 0.352941 \\ 0.411765a^2u - 0.470588au + \dots + 0.117647a - 1.35294 \end{pmatrix} \\ a_9 &= \begin{pmatrix} 0.176471a^2u - 0.0588235au + \dots + 0.764706a - 1.29412 \\ -0.176471a^2u + 0.0588235au + \dots + 0.235294a + 1.29412 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -0.117647a^2u - 0.294118au + \dots + 0.823529a - 0.470588 \\ 0.235294a^2u - 0.411765au + \dots + 0.352941a - 1.05882 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0.411765a^2u - 0.470588au + \dots + 0.117647a - 1.35294 \\ 0.411765a^2u - 0.470588au + \dots + 0.117647a - 2.35294 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0.411765a^2u - 0.470588au + \dots + 0.117647a - 1.35294 \\ 0.411765a^2u - 0.470588au + \dots + 0.117647a - 2.35294 \end{pmatrix} \end{aligned}$$

(ii) **Obstruction class = 1**

$$(iii) \text{ Cusp Shapes} = -\frac{20}{17}a^2u - \frac{12}{17}a^2 - \frac{16}{17}au + \frac{4}{17}a - \frac{88}{17}u - \frac{12}{17}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5 c_6, c_7	$(u^2 + 1)^3$
c_2	$(u + 1)^6$
c_4, c_9	$u^6 + u^4 + 2u^2 + 1$
c_8	$(u^3 - u^2 + 2u - 1)^2$
c_{10}, c_{11}	$(u^3 + u^2 + 2u + 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_5 c_6, c_7	$(y + 1)^6$
c_2	$(y - 1)^6$
c_4, c_9	$(y^3 + y^2 + 2y + 1)^2$
c_8, c_{10}, c_{11}	$(y^3 + 3y^2 + 2y - 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.000000I$ $a = -0.479777 + 0.977518I$ $b = 0.744862 + 0.877439I$	$3.02413 + 2.82812I$	$-0.49024 - 2.97945I$
$u = 1.000000I$ $a = -0.84494 + 2.10208I$ $b = -0.744862 + 0.877439I$	$3.02413 - 2.82812I$	$-0.49024 + 2.97945I$
$u = 1.000000I$ $a = 1.32472 - 2.07960I$ $b = -0.754878I$	-1.11345	$-7.01951 + 0.I$
$u = -1.000000I$ $a = -0.479777 - 0.977518I$ $b = 0.744862 - 0.877439I$	$3.02413 - 2.82812I$	$-0.49024 + 2.97945I$
$u = -1.000000I$ $a = -0.84494 - 2.10208I$ $b = -0.744862 - 0.877439I$	$3.02413 + 2.82812I$	$-0.49024 - 2.97945I$
$u = -1.000000I$ $a = 1.32472 + 2.07960I$ $b = 0.754878I$	-1.11345	$-7.01951 + 0.I$

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_5	$(u^2 + 1)^3$ $\cdot (u^{12} + 4u^{10} + u^9 + 6u^8 + 3u^7 + 7u^6 + 3u^5 + 7u^4 + 3u^3 + 3u^2 + 2u + 1)$ $\cdot (u^{34} - u^{33} + \dots - 8u + 1)$
c_2	$((u + 1)^6)(u^{12} + 8u^{11} + \dots + 2u + 1)(u^{34} + 11u^{33} + \dots + 24u + 1)$
c_3, c_6, c_7	$(u^2 + 1)^3$ $\cdot (u^{12} + 4u^{10} + u^9 + 6u^8 + 3u^7 + 7u^6 + 3u^5 + 7u^4 + 3u^3 + 3u^2 + 2u + 1)$ $\cdot (u^{34} - u^{33} + \dots - 10u + 1)$
c_4, c_9	$((u^4 + u^3 + u^2 + 1)^3)(u^6 + u^4 + 2u^2 + 1)(u^{34} - 2u^{33} + \dots - u + 2)$
c_8	$(u^3 - u^2 + 2u - 1)^2(u^4 + u^3 + 3u^2 + 2u + 1)^3$ $\cdot (u^{34} + 8u^{33} + \dots + 19u + 4)$
c_{10}, c_{11}	$(u^3 + u^2 + 2u + 1)^2(u^4 + u^3 + 3u^2 + 2u + 1)^3$ $\cdot (u^{34} + 8u^{33} + \dots + 19u + 4)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$((y + 1)^6)(y^{12} + 8y^{11} + \dots + 2y + 1)(y^{34} + 11y^{33} + \dots + 24y + 1)$
c_2	$((y - 1)^6)(y^{12} - 8y^{11} + \dots + 18y + 1)(y^{34} + 31y^{33} + \dots + 916y + 1)$
c_3, c_6, c_7	$((y + 1)^6)(y^{12} + 8y^{11} + \dots + 2y + 1)(y^{34} + 39y^{33} + \dots + 56y + 1)$
c_4, c_9	$(y^3 + y^2 + 2y + 1)^2(y^4 + y^3 + 3y^2 + 2y + 1)^3$ $\cdot (y^{34} + 8y^{33} + \dots + 19y + 4)$
c_8, c_{10}, c_{11}	$(y^3 + 3y^2 + 2y - 1)^2(y^4 + 5y^3 + 7y^2 + 2y + 1)^3$ $\cdot (y^{34} + 36y^{33} + \dots + 495y + 16)$