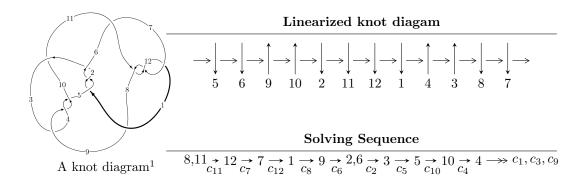
$12a_{1234} (K12a_{1234})$



Ideals for irreducible components 2 of X_{par}

$$I_1^u = \langle 1.93075 \times 10^{22}u^{71} - 9.36918 \times 10^{22}u^{70} + \dots + 2.61600 \times 10^{23}b - 2.51001 \times 10^{23},$$

$$3.91390 \times 10^{23}u^{71} - 8.79983 \times 10^{23}u^{70} + \dots + 2.61600 \times 10^{23}a - 2.96665 \times 10^{24}, \ u^{72} - 2u^{71} + \dots - 8u - 19u^{72}u^{72} = \langle -au - u^2 + b + u - 1, \ a^2 - 4u^2 + 2u - 6, \ u^3 - u^2 + 2u - 1 \rangle$$

$$I_3^u = \langle -u^2 + b - u - 1, \ a, \ u^3 + u^2 + 2u + 1 \rangle$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 81 representations.

¹The 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.

$$I. \\ I_1^u = \langle 1.93 \times 10^{22} u^{71} - 9.37 \times 10^{22} u^{70} + \dots + 2.62 \times 10^{23} b - 2.51 \times 10^{23}, \ 3.91 \times 10^{23} u^{71} - 8.80 \times 10^{23} u^{70} + \dots + 2.62 \times 10^{23} a - 2.97 \times 10^{24}, \ u^{72} - 2u^{71} + \dots - 8u - 1 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{2} + 1 \\ u^{4} + 2u^{2} \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} -1.49614u^{71} + 3.36385u^{70} + \dots + 9.35049u + 11.3404 \\ -0.0738055u^{71} + 0.358149u^{70} + \dots - 1.96687u + 0.959482 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u^{3} + 2u \\ u^{3} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -1.70670u^{71} + 4.43356u^{70} + \dots + 11.3889u + 11.8788 \\ -0.0934270u^{71} + 1.10929u^{70} + \dots - 1.29641u + 1.19703 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.959482u^{71} - 1.99277u^{70} + \dots - 1.06519u - 9.64273 \\ 0.371572u^{71} - 0.601476u^{70} + \dots - 0.628716u - 1.49614 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -2.52657u^{71} + 5.46669u^{70} + \dots + 6.75726u + 15.3627 \\ -0.515104u^{71} + 0.594756u^{70} + \dots + 2.97411u + 2.22254 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -1.82146u^{71} + 4.39966u^{70} + \dots + 11.3717u + 12.1549 \\ 0.225358u^{71} + 0.517327u^{70} + \dots - 1.91838u + 0.946928 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$\frac{131451318810141352881632}{130800077995111299411101}u^{71} - \frac{277192896356154580549909}{130800077995111299411101}u^{70} + \cdots + \frac{732571967736991836052242}{130800077995111299411101}u + \frac{336112699848274877396314}{130800077995111299411101}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_5	$u^{72} + 4u^{71} + \dots + 51u - 7$
c_3, c_4, c_9	$u^{72} - u^{71} + \dots + 8u - 8$
c_{6}, c_{8}	$u^{72} - 2u^{71} + \dots + 5260u - 481$
c_7, c_{11}, c_{12}	$u^{72} + 2u^{71} + \dots + 8u - 1$
c_{10}	$u^{72} + 3u^{71} + \dots - 2888u - 5768$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_5	$y^{72} - 70y^{71} + \dots + 423y + 49$
c_3, c_4, c_9	$y^{72} - 65y^{71} + \dots - 448y + 64$
c_{6}, c_{8}	$y^{72} - 52y^{71} + \dots - 12759486y + 231361$
c_7, c_{11}, c_{12}	$y^{72} + 60y^{71} + \dots - 62y + 1$
c_{10}	$y^{72} + 19y^{71} + \dots - 312337216y + 33269824$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.855221 + 0.104555I		
a = -3.51455 - 0.94548I	-11.19460 + 5.99079I	-11.45914 - 4.34329I
b = -2.90722 - 0.53414I		
u = -0.855221 - 0.104555I		
a = -3.51455 + 0.94548I	-11.19460 - 5.99079I	-11.45914 + 4.34329I
b = -2.90722 + 0.53414I		
u = 0.846928 + 0.141420I		
a = -3.30013 + 1.21203I	-5.95434 - 10.47780I	-7.43345 + 6.18173I
b = -2.78162 + 0.68434I		
u = 0.846928 - 0.141420I		
a = -3.30013 - 1.21203I	-5.95434 + 10.47780I	-7.43345 - 6.18173I
b = -2.78162 - 0.68434I		
u = 0.849158 + 0.055790I		
a = -3.83366 + 0.58255I	-8.96835 - 1.04646I	-9.68773 - 0.28213I
b = -3.09139 + 0.33000I		
u = 0.849158 - 0.055790I		
a = -3.83366 - 0.58255I	-8.96835 + 1.04646I	-9.68773 + 0.28213I
b = -3.09139 - 0.33000I		
u = 0.413905 + 1.104350I		
a = 1.63797 - 1.57519I	-3.00550 + 5.94009I	0
b = 2.11853 + 0.95743I		
u = 0.413905 - 1.104350I		
a = 1.63797 + 1.57519I	-3.00550 - 5.94009I	0
b = 2.11853 - 0.95743I		
u = 0.805296 + 0.104399I		
a = 1.033840 - 0.702962I	0.09644 - 6.17633I	-4.65210 + 5.74472I
b = 0.912278 - 0.053298I		
u = 0.805296 - 0.104399I		
a = 1.033840 + 0.702962I	0.09644 + 6.17633I	-4.65210 - 5.74472I
b = 0.912278 + 0.053298I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.340749 + 1.153980I		
a = -0.553879 + 0.101561I	3.29054 + 2.00837I	0
b = -0.951773 - 0.318003I		
u = 0.340749 - 1.153980I		
a = -0.553879 - 0.101561I	3.29054 - 2.00837I	0
b = -0.951773 + 0.318003I		
u = -0.789046 + 0.047967I		
a = 0.926833 + 0.645835I	-4.46192 + 2.46018I	-10.16635 - 4.00752I
b = 0.870318 + 0.061520I		
u = -0.789046 - 0.047967I		
a = 0.926833 - 0.645835I	-4.46192 - 2.46018I	-10.16635 + 4.00752I
b = 0.870318 - 0.061520I		
u = 0.782297 + 0.041244I		
a = 0.717071 + 0.660038I	-1.27923 - 1.03150I	-6.99400 + 0.63948I
b = 0.814839 + 0.084621I		
u = 0.782297 - 0.041244I		
a = 0.717071 - 0.660038I	-1.27923 + 1.03150I	-6.99400 - 0.63948I
b = 0.814839 - 0.084621I		
u = -0.414055 + 1.158140I		
a = 1.60375 + 1.71714I	-7.96420 - 1.43495I	0
b = 2.38953 - 0.91844I		
u = -0.414055 - 1.158140I		
a = 1.60375 - 1.71714I	-7.96420 + 1.43495I	0
b = 2.38953 + 0.91844I		
u = -0.481039 + 0.598411I		
a = 0.375183 - 1.317490I	-1.22913 + 5.72696I	-4.74473 - 6.15763I
b = 0.464545 + 0.103622I		
u = -0.481039 - 0.598411I		
a = 0.375183 + 1.317490I	-1.22913 - 5.72696I	-4.74473 + 6.15763I
b = 0.464545 - 0.103622I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.767390		
a = -5.25539	-0.107189	-8.73150
b = -3.90280		
u = -0.089470 + 1.249190I		
a = 0.634254 + 0.081148I	1.49723 + 1.57721I	0
b = -0.714517 + 1.152590I		
u = -0.089470 - 1.249190I		
a = 0.634254 - 0.081148I	1.49723 - 1.57721I	0
b = -0.714517 - 1.152590I		
u = 0.324593 + 1.231220I		
a = 0.095849 + 0.773188I	2.37868 - 2.96753I	0
b = -0.573454 - 0.363220I		
u = 0.324593 - 1.231220I		
a = 0.095849 - 0.773188I	2.37868 + 2.96753I	0
b = -0.573454 + 0.363220I		
u = -0.332624 + 1.229470I		
a = -0.494776 - 0.054404I	-0.83246 + 1.58738I	0
b = -0.964484 + 0.433638I		
u = -0.332624 - 1.229470I		
a = -0.494776 + 0.054404I	-0.83246 - 1.58738I	0
b = -0.964484 - 0.433638I		
u = -0.621231 + 0.374947I		
a = 0.245228 - 1.110140I	-1.94589 - 1.80647I	-6.41560 - 0.05777I
b = 0.612440 - 0.033140I		
u = -0.621231 - 0.374947I		
a = 0.245228 + 1.110140I	-1.94589 + 1.80647I	-6.41560 + 0.05777I
b = 0.612440 + 0.033140I		
u = 0.401285 + 1.213440I		
a = 1.52913 - 1.92577I	-5.40292 - 3.44004I	0
b = 2.74245 + 0.83179I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.401285 - 1.213440I		
a = 1.52913 + 1.92577I	-5.40292 + 3.44004I	0
b = 2.74245 - 0.83179I		
u = 0.526133 + 0.479268I		
a = 0.264306 + 1.274860I	-5.48345 - 1.89351I	-9.94754 + 3.92631I
b = 0.551953 - 0.042979I		
u = 0.526133 - 0.479268I		
a = 0.264306 - 1.274860I	-5.48345 + 1.89351I	-9.94754 - 3.92631I
b = 0.551953 + 0.042979I		
u = -0.021601 + 1.289030I		
a = 0.982879 - 0.665839I	7.38621 + 0.45778I	0
b = -1.11100 - 1.60954I		
u = -0.021601 - 1.289030I		
a = 0.982879 + 0.665839I	7.38621 - 0.45778I	0
b = -1.11100 + 1.60954I		
u = 0.260985 + 1.272720I		
a = -0.153726 + 0.524674I	2.21876 - 3.34010I	0
b = -0.776623 - 0.528444I		
u = 0.260985 - 1.272720I		
a = -0.153726 - 0.524674I	2.21876 + 3.34010I	0
b = -0.776623 + 0.528444I		
u = 0.047615 + 1.309970I		
a = -0.701791 + 0.007598I	4.63025 - 1.60850I	0
b = 0.040193 - 0.254286I		
u = 0.047615 - 1.309970I		
a = -0.701791 - 0.007598I	4.63025 + 1.60850I	0
b = 0.040193 + 0.254286I		
u = -0.327283 + 1.273420I		
a = 1.52077 + 2.75302I	3.84964 + 3.94691I	0
b = 3.91217 - 0.83641I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.327283 - 1.273420I		
a = 1.52077 - 2.75302I	3.84964 - 3.94691I	0
b = 3.91217 + 0.83641I		
u = 0.663829		
a = 0.875997	-1.74281	-3.26010
b = 0.804619		
u = 0.340856 + 1.295450I		
a = -0.439050 - 0.044410I	2.89162 - 5.08382I	0
b = -1.021930 - 0.522230I		
u = 0.340856 - 1.295450I		
a = -0.439050 + 0.044410I	2.89162 + 5.08382I	0
b = -1.021930 + 0.522230I		
u = -0.345526 + 1.301720I		
a = -0.055600 - 0.900464I	-0.24447 + 6.55260I	0
b = -0.736941 + 0.208894I		
u = -0.345526 - 1.301720I		
a = -0.055600 + 0.900464I	-0.24447 - 6.55260I	0
b = -0.736941 - 0.208894I		
u = -0.240433 + 1.331850I		
a = -0.521834 - 0.837953I	8.17221 + 2.72991I	0
b = -1.098430 + 0.565000I		
u = -0.240433 - 1.331850I		
a = -0.521834 + 0.837953I	8.17221 - 2.72991I	0
b = -1.098430 - 0.565000I		
u = 0.381480 + 1.308120I		
a = 1.02332 - 2.24320I	-4.70869 - 5.46372I	0
b = 3.24181 + 0.18133I		
u = 0.381480 - 1.308120I		
a = 1.02332 + 2.24320I	-4.70869 + 5.46372I	0
b = 3.24181 - 0.18133I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.070481 + 1.375000I		
a = -0.710558 + 0.082467I	10.20230 + 4.09393I	0
b = 0.434145 + 0.464159I		
u = -0.070481 - 1.375000I		
a = -0.710558 - 0.082467I	10.20230 - 4.09393I	0
b = 0.434145 - 0.464159I		
u = 0.351583 + 1.335210I		
a = -0.094715 + 0.966773I	4.61739 - 10.34930I	0
b = -0.805731 - 0.126163I		
u = 0.351583 - 1.335210I		
a = -0.094715 - 0.966773I	4.61739 + 10.34930I	0
b = -0.805731 + 0.126163I		
u = -0.380105 + 1.341130I		
a = 0.77057 + 2.17800I	-6.65706 + 10.42950I	0
b = 3.17864 + 0.12703I		
u = -0.380105 - 1.341130I		
a = 0.77057 - 2.17800I	-6.65706 - 10.42950I	0
b = 3.17864 - 0.12703I		
u = 0.142108 + 1.400830I		
a = 0.073563 - 0.435223I	0.48745 - 4.08574I	0
b = -1.082410 - 0.884379I		
u = 0.142108 - 1.400830I		
a = 0.073563 + 0.435223I	0.48745 + 4.08574I	0
b = -1.082410 + 0.884379I		
u = 0.369333 + 1.361460I		
a = 0.58444 - 2.15508I	-1.2207 - 14.8549I	0
b = 3.15725 - 0.33932I		
u = 0.369333 - 1.361460I		
a = 0.58444 + 2.15508I	-1.2207 + 14.8549I	0
b = 3.15725 + 0.33932I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.317187 + 0.489927I		
a = 0.090286 - 0.752772I	4.43235 + 2.91765I	1.16854 - 6.33914I
b = -0.635338 - 0.425944I		
u = -0.317187 - 0.489927I		
a = 0.090286 + 0.752772I	4.43235 - 2.91765I	1.16854 + 6.33914I
b = -0.635338 + 0.425944I		
u = -0.22131 + 1.40591I		
a = -0.133181 + 0.324090I	3.69568 + 1.17982I	0
b = -1.068390 + 0.764012I		
u = -0.22131 - 1.40591I		
a = -0.133181 - 0.324090I	3.69568 - 1.17982I	0
b = -1.068390 - 0.764012I		
u = -0.09732 + 1.43277I		
a = 0.098014 + 0.602807I	5.29029 + 7.47149I	0
b = -1.16805 + 0.91404I		
u = -0.09732 - 1.43277I		
a = 0.098014 - 0.602807I	5.29029 - 7.47149I	0
b = -1.16805 - 0.91404I		
u = -0.492033 + 0.179262I		
a = 1.73174 + 0.27386I	3.53660 - 0.14057I	-0.86825 - 1.39722I
b = 0.789924 - 0.245115I		
u = -0.492033 - 0.179262I		
a = 1.73174 - 0.27386I	3.53660 + 0.14057I	-0.86825 + 1.39722I
b = 0.789924 + 0.245115I		
u = -0.365925		
a = -1.20803	-2.24878	1.74900
b = 0.774716		
u = 0.213495 + 0.279988I		
a = 0.805720 + 0.480004I	-0.160994 - 0.786143I	-4.51480 + 8.79169I
b = -0.165356 + 0.323439I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.213495 - 0.279988I		
a = 0.805720 - 0.480004I	-0.160994 + 0.786143I	-4.51480 - 8.79169I
b = -0.165356 - 0.323439I		
u = -0.134176		
a = 9.11290	3.24436	2.13710
b = 1.17072		

II. $I_2^u = \langle -au - u^2 + b + u - 1, \ a^2 - 4u^2 + 2u - 6, \ u^3 - u^2 + 2u - 1 \rangle$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u \\ u^{2} - u + 1 \end{pmatrix}$$

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

$$a_{9} = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} a \\ au + u^{2} - u + 1 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} u^{2} + 1 \\ u^{2} - u + 1 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u^{2} - a + 1 \\ -au \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{2} + a - 1 \\ -au \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} au - u^{2} + a - 1 \\ au \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-4u^2 + 4u 8$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2	$(u+1)^6$
$c_3, c_4, c_9 \ c_{10}$	$(u^2-2)^3$
<i>C</i> ₅	$(u-1)^6$
c_6, c_8	$(u^3 - u^2 + 1)^2$
c ₇	$(u^3 + u^2 + 2u + 1)^2$
c_{11}, c_{12}	$(u^3 - u^2 + 2u - 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_5	$(y-1)^6$
c_3, c_4, c_9 c_{10}	$(y-2)^6$
c_{6}, c_{8}	$(y^3 - y^2 + 2y - 1)^2$
c_7, c_{11}, c_{12}	$(y^3 + 3y^2 + 2y - 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.215080 + 1.307140I		
a = -0.173328 + 1.053390I	6.31400 - 2.82812I	-0.49024 + 2.97945I
b = -2.29165 - 0.74486I		
u = 0.215080 + 1.307140I		
a = 0.173328 - 1.053390I	6.31400 - 2.82812I	-0.49024 + 2.97945I
b = 0.536775 - 0.744862I		
u = 0.215080 - 1.307140I		
a = -0.173328 - 1.053390I	6.31400 + 2.82812I	-0.49024 - 2.97945I
b = -2.29165 + 0.74486I		
u = 0.215080 - 1.307140I		
a = 0.173328 + 1.053390I	6.31400 + 2.82812I	-0.49024 - 2.97945I
b = 0.536775 + 0.744862I		
u = 0.569840		
a = -2.48177	2.17641	-7.01950
b = -0.659336		
u = 0.569840		
a = 2.48177	2.17641	-7.01950
b = 2.16909		

III.
$$I_3^u = \langle -u^2 + b - u - 1, \ a, \ u^3 + u^2 + 2u + 1 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u \\ -u^{2} - u - 1 \end{pmatrix}$$

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

$$a_{9} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0 \\ u^{2} + u + 1 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u^{2} + u + 1 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{2} - 1 \\ -u^{2} - u - 1 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -u^{2} - 1 \\ 0 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -u^{2} - 1 \\ 0 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-6u^2 4u 16$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2	$(u-1)^3$
c_3, c_4, c_9 c_{10}	u^3
c_5	$(u+1)^3$
c_6, c_8	$u^3 + u^2 - 1$
	$u^3 - u^2 + 2u - 1$
c_{11}, c_{12}	$u^3 + u^2 + 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_5	$(y-1)^3$
c_3, c_4, c_9 c_{10}	y^3
c_{6}, c_{8}	$y^3 - y^2 + 2y - 1$
c_7, c_{11}, c_{12}	$y^3 + 3y^2 + 2y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.215080 + 1.307140I		
a = 0	1.37919 + 2.82812I	-5.16553 - 1.85489I
b = -0.877439 + 0.744862I		
u = -0.215080 - 1.307140I		
a = 0	1.37919 - 2.82812I	-5.16553 + 1.85489I
b = -0.877439 - 0.744862I		
u = -0.569840		
a = 0	-2.75839	-15.6690
b = 0.754878		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_2	$((u-1)^3)(u+1)^6(u^{72}+4u^{71}+\cdots+51u-7)$
c_3, c_4, c_9	$u^{3}(u^{2}-2)^{3}(u^{72}-u^{71}+\cdots+8u-8)$
<i>C</i> 5	$((u-1)^6)(u+1)^3(u^{72}+4u^{71}+\cdots+51u-7)$
c_{6}, c_{8}	$((u^3 - u^2 + 1)^2)(u^3 + u^2 - 1)(u^{72} - 2u^{71} + \dots + 5260u - 481)$
<i>c</i> ₇	$(u^3 - u^2 + 2u - 1)(u^3 + u^2 + 2u + 1)^2(u^{72} + 2u^{71} + \dots + 8u - 1)$
c_{10}	$u^{3}(u^{2}-2)^{3}(u^{72}+3u^{71}+\cdots-2888u-5768)$
c_{11}, c_{12}	$((u^3 - u^2 + 2u - 1)^2)(u^3 + u^2 + 2u + 1)(u^{72} + 2u^{71} + \dots + 8u - 1)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1,c_2,c_5	$((y-1)^9)(y^{72} - 70y^{71} + \dots + 423y + 49)$
c_3, c_4, c_9	$y^{3}(y-2)^{6}(y^{72}-65y^{71}+\cdots-448y+64)$
c_6,c_8	$((y^3 - y^2 + 2y - 1)^3)(y^{72} - 52y^{71} + \dots - 1.27595 \times 10^7 y + 231361)$
c_7, c_{11}, c_{12}	$((y^3 + 3y^2 + 2y - 1)^3)(y^{72} + 60y^{71} + \dots - 62y + 1)$
c_{10}	$y^{3}(y-2)^{6}(y^{72}+19y^{71}+\cdots-3.12337\times10^{8}y+3.32698\times10^{7})$