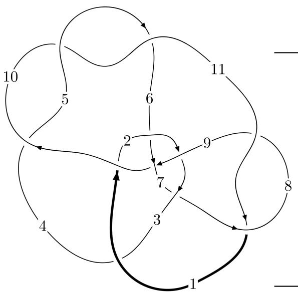
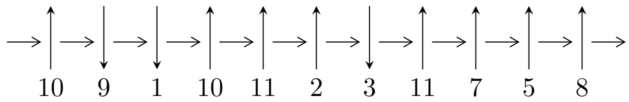
$11n_{159}$ $(K11n_{159})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle 4.18672 \times 10^{96} u^{50} - 1.99216 \times 10^{96} u^{49} + \cdots + 1.57066 \times 10^{97} b - 7.53117 \times 10^{96},$$
$$6.93809 \times 10^{95} u^{50} - 3.65626 \times 10^{96} u^{49} + \cdots + 1.57066 \times 10^{97} a - 2.77787 \times 10^{98},\ u^{51} + 19u^{49} + \cdots + 13u +$$
$$I_2^u = \langle -u^{15} - u^{14} - 3u^{13} - u^{12} + u^{11} + 6u^{10} + 14u^9 + 16u^8 + 22u^7 + 15u^6 + 14u^5 + 6u^4 + 7u^3 + u^2 + b,$$
$$-201u^{15} - 115u^{14} + \cdots + 85a - 229,\ u^{16} + u^{15} + \cdots - u - 1\rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 67 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. $\boldsymbol{I_1^u =}$
$\boldsymbol{\langle 4.19\times 10^{96}u^{50} - 1.99\times 10^{96}u^{49} + \cdots + 1.57\times 10^{97}b - 7.53\times 10^{96},\ 6.94\times 10^{95}u^{50} - 3.66\times 10^{96}u^{49} + \cdots + 1.57\times 10^{97}a - 2.78\times 10^{98},\ u^{51} + 19u^{49} + \cdots + 13u + 1\rangle}$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -0.0441731u^{50} + 0.232785u^{49} + \cdots + 101.687u + 17.6860 \\ -0.266558u^{50} + 0.126836u^{49} + \cdots - 2.22590u + 0.479491 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 0.00694886u^{50} + 0.245771u^{49} + \cdots + 100.087u + 17.5801 \\ -0.215436u^{50} + 0.139822u^{49} + \cdots - 3.82562u + 0.373542 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -0.315201u^{50} + 0.322634u^{49} + \cdots + 96.4791u + 17.9327 \\ -0.255159u^{50} + 0.144501u^{49} + \cdots - 1.32888u + 0.569340 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0.492967u^{50} - 0.795819u^{49} + \cdots - 148.859u - 17.2613 \\ -0.135931u^{50} - 0.160168u^{49} + \cdots - 20.5135u - 2.00969 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -2.73260u^{50} + 0.0713461u^{49} + \cdots - 195.275u - 13.1506 \\ -0.141930u^{50} + 0.0517872u^{49} + \cdots - 5.44851u + 0.0702398 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 2.17298u^{50} - 0.00432810u^{49} + \cdots + 193.781u + 17.3396 \\ 0.0132709u^{50} + 0.0275351u^{49} + \cdots + 3.99076u + 0.0293163 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 2.17298u^{50} - 0.00432810u^{49} + \cdots + 193.781u + 17.3396 \\ -0.0193853u^{50} + 0.0282101u^{49} + \cdots + 1.87404u + 0.0336444 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 2.17298u^{50} - 0.00432810u^{49} + \cdots + 193.781u + 17.3396 \\ -0.0193853u^{50} + 0.0282101u^{49} + \cdots + 1.87404u + 0.0336444 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.101424u^{50} + 0.0191393u^{49} + \cdots - 6.99335u + 1.74681$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{51} + 4u^{50} + \cdots + 10304u + 1139$
c_2	$u^{51} + u^{50} + \cdots + 197u + 3$
c_3	$u^{51} + 4u^{50} + \cdots - 668u + 28$
c_4, c_5, c_{10}	$u^{51} + u^{50} + \cdots - 15u - 1$
c_6	$u^{51} + 14u^{49} + \cdots - 3611u + 487$
c_7	$u^{51} - u^{50} + \cdots + 2734u - 367$
c_8, c_{11}	$u^{51} + 19u^{49} + \cdots + 13u + 1$
c_9	$u^{51} + 3u^{50} + \cdots + 17u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{51} + 48y^{50} + \cdots + 51493582y - 1297321$
c_2	$y^{51} - 11y^{50} + \cdots + 48673y - 9$
c_3	$y^{51} - 54y^{50} + \cdots + 361104y - 784$
c_4, c_5, c_{10}	$y^{51} - 13y^{50} + \cdots + 69y - 1$
c_6	$y^{51} + 28y^{50} + \cdots - 14382675y - 237169$
c_7	$y^{51} - 13y^{50} + \cdots + 4303142y - 134689$
c_8, c_{11}	$y^{51} + 38y^{50} + \cdots - 63y - 1$
c_9	$y^{51} + 3y^{50} + \cdots + 231y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.493427+0.809787I$ $a=-0.77037+1.28680I$ $b=-1.158320-0.268559I$	$-3.18456-2.09749I$	$1.52387+2.56668I$
$u=-0.493427-0.809787I$ $a=-0.77037-1.28680I$ $b=-1.158320+0.268559I$	$-3.18456+2.09749I$	$1.52387-2.56668I$
$u=\ \ 0.440430+1.030910I$ $a=\ \ 1.20909+0.73700I$ $b=\ \ 0.648815+0.030734I$	$-1.47252+3.57882I$	$5.00000-4.02671I$
$u=\ \ 0.440430-1.030910I$ $a=\ \ 1.20909-0.73700I$ $b=\ \ 0.648815-0.030734I$	$-1.47252-3.57882I$	$5.00000+4.02671I$
$u=-0.479467+1.026910I$ $a=-2.05858+0.43573I$ $b=-0.759278-0.845778I$	$-1.69267-6.49416I$	$2.47045+12.27311I$
$u=-0.479467-1.026910I$ $a=-2.05858-0.43573I$ $b=-0.759278+0.845778I$	$-1.69267+6.49416I$	$2.47045-12.27311I$
$u=\ \ 0.743842+0.386843I$ $a=\ \ 0.297848+0.032171I$ $b=\ \ 0.446197+0.593035I$	$1.328990+0.424799I$	$9.68382-3.33114I$
$u=\ \ 0.743842-0.386843I$ $a=\ \ 0.297848-0.032171I$ $b=\ \ 0.446197-0.593035I$	$1.328990-0.424799I$	$9.68382+3.33114I$
$u=\ \ 0.095349+1.173960I$ $a=-1.19574-0.93729I$ $b=-0.696664-0.158856I$	$-0.53609-2.28831I$	$3.93640+2.00082I$
$u=\ \ 0.095349-1.173960I$ $a=-1.19574+0.93729I$ $b=-0.696664+0.158856I$	$-0.53609+2.28831I$	$3.93640-2.00082I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.599757 + 1.068150I$ $a = 1.59872 + 0.52153I$ $b = 1.166950 - 0.515248I$	$-0.82395 + 4.71884I$	$8.89552 - 4.87376I$
$u = 0.599757 - 1.068150I$ $a = 1.59872 - 0.52153I$ $b = 1.166950 + 0.515248I$	$-0.82395 - 4.71884I$	$8.89552 + 4.87376I$
$u = -0.037987 + 0.741711I$ $a = 0.487424 - 0.496015I$ $b = -0.263663 + 1.061380I$	$0.97092 + 2.65596I$	$-1.16196 - 5.22442I$
$u = -0.037987 - 0.741711I$ $a = 0.487424 + 0.496015I$ $b = -0.263663 - 1.061380I$	$0.97092 - 2.65596I$	$-1.16196 + 5.22442I$
$u = -0.105363 + 1.293330I$ $a = 0.842122 - 1.028860I$ $b = 1.15000 - 2.18955I$	$-6.78593 - 5.05905I$	$0. + 9.05421I$
$u = -0.105363 - 1.293330I$ $a = 0.842122 + 1.028860I$ $b = 1.15000 + 2.18955I$	$-6.78593 + 5.05905I$	$0. - 9.05421I$
$u = -0.605350 + 0.328798I$ $a = 0.030694 - 0.438381I$ $b = -0.582666 + 0.913456I$	$0.18643 + 2.24007I$	$4.31467 - 4.82703I$
$u = -0.605350 - 0.328798I$ $a = 0.030694 + 0.438381I$ $b = -0.582666 - 0.913456I$	$0.18643 - 2.24007I$	$4.31467 + 4.82703I$
$u = -0.103993 + 1.307300I$ $a = 1.289790 + 0.507751I$ $b = 1.30493 + 0.86402I$	$0.75736 - 4.17149I$	0
$u = -0.103993 - 1.307300I$ $a = 1.289790 - 0.507751I$ $b = 1.30493 - 0.86402I$	$0.75736 + 4.17149I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.066040 + 1.316750I$ $a = -1.134200 + 0.598306I$ $b = -0.869888 - 0.655773I$	$-7.59339 + 1.64029I$	0
$u = 0.066040 - 1.316750I$ $a = -1.134200 - 0.598306I$ $b = -0.869888 + 0.655773I$	$-7.59339 - 1.64029I$	0
$u = -0.316521 + 1.283090I$ $a = -0.973576 + 0.636597I$ $b = -1.275330 + 0.375261I$	$-4.26515 - 0.63551I$	0
$u = -0.316521 - 1.283090I$ $a = -0.973576 - 0.636597I$ $b = -1.275330 - 0.375261I$	$-4.26515 + 0.63551I$	0
$u = -0.169671 + 1.316380I$ $a = -1.56522 - 0.54880I$ $b = -1.61853 - 1.92364I$	$-8.06935 - 3.19037I$	0
$u = -0.169671 - 1.316380I$ $a = -1.56522 + 0.54880I$ $b = -1.61853 + 1.92364I$	$-8.06935 + 3.19037I$	0
$u = 1.32897$ $a = 0.301273$ $b = 0.554539$	2.55208	-16.4860
$u = -1.386170 + 0.040542I$ $a = 0.0061725 + 0.0594784I$ $b = 1.060320 + 0.487450I$	$-4.33426 - 8.28696I$	0
$u = -1.386170 - 0.040542I$ $a = 0.0061725 - 0.0594784I$ $b = 1.060320 - 0.487450I$	$-4.33426 + 8.28696I$	0
$u = 0.119578 + 1.392790I$ $a = 1.112220 + 0.798814I$ $b = 0.741572 - 0.551742I$	$-8.21456 + 4.85073I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.119578 - 1.392790I$ $a = 1.112220 - 0.798814I$ $b = 0.741572 + 0.551742I$	$-8.21456 - 4.85073I$	0
$u = 1.40409 + 0.33821I$ $a = 0.0516236 - 0.0304155I$ $b = -0.946779 + 0.253375I$	$-4.12435 + 1.05287I$	0
$u = 1.40409 - 0.33821I$ $a = 0.0516236 + 0.0304155I$ $b = -0.946779 - 0.253375I$	$-4.12435 - 1.05287I$	0
$u = 0.531665$ $a = 0.598400$ $b = 0.509912$	1.10699	8.71620
$u = 0.32774 + 1.48242I$ $a = 1.280410 - 0.075549I$ $b = 1.059310 - 0.382106I$	$-3.16584 + 5.71287I$	0
$u = 0.32774 - 1.48242I$ $a = 1.280410 + 0.075549I$ $b = 1.059310 + 0.382106I$	$-3.16584 - 5.71287I$	0
$u = -1.54491$ $a = -0.149552$ $b = 0.343321$	7.66230	0
$u = -0.60455 + 1.48396I$ $a = 1.358730 - 0.175270I$ $b = 1.44476 + 0.99917I$	$-9.1940 - 15.1810I$	0
$u = -0.60455 - 1.48396I$ $a = 1.358730 + 0.175270I$ $b = 1.44476 - 0.99917I$	$-9.1940 + 15.1810I$	0
$u = 0.45015 + 1.55699I$ $a = -1.287260 - 0.004117I$ $b = -1.50034 + 0.96394I$	$-10.36510 + 7.36778I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.45015 - 1.55699I$ $a = -1.287260 + 0.004117I$ $b = -1.50034 - 0.96394I$	$-10.36510 - 7.36778I$	0
$u = -0.013247 + 0.321612I$ $a = 1.17101 - 1.69632I$ $b = 0.490132 - 1.210900I$	$4.50411 + 3.58227I$	$16.0667 - 6.6127I$
$u = -0.013247 - 0.321612I$ $a = 1.17101 + 1.69632I$ $b = 0.490132 + 1.210900I$	$4.50411 - 3.58227I$	$16.0667 + 6.6127I$
$u = 0.70380 + 1.55046I$ $a = -0.751838 - 0.224127I$ $b = -1.028030 + 0.642864I$	$-8.17422 + 6.90097I$	0
$u = 0.70380 - 1.55046I$ $a = -0.751838 + 0.224127I$ $b = -1.028030 - 0.642864I$	$-8.17422 - 6.90097I$	0
$u = -0.56390 + 1.65705I$ $a = 0.727943 - 0.273768I$ $b = 1.075260 + 0.420157I$	$-9.56909 + 0.79682I$	0
$u = -0.56390 - 1.65705I$ $a = 0.727943 + 0.273768I$ $b = 1.075260 - 0.420157I$	$-9.56909 - 0.79682I$	0
$u = -0.169815 + 0.103297I$ $a = 5.86596 + 4.64169I$ $b = -0.852548 - 0.435407I$	$-3.57803 - 1.46219I$	$0.29485 + 4.98451I$
$u = -0.169815 - 0.103297I$ $a = 5.86596 - 4.64169I$ $b = -0.852548 + 0.435407I$	$-3.57803 + 1.46219I$	$0.29485 - 4.98451I$
$u = -0.059185 + 0.143199I$ $a = 9.53198 + 7.67652I$ $b = 0.759897 + 0.569891I$	$-2.97946 + 4.11273I$	$4.99561 + 1.01748I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.059185 - 0.143199I$		
$a = \quad 9.53198 - 7.67652I$	$-2.97946 - 4.11273I$	$4.99561 - 1.01748I$
$b = \quad 0.759897 - 0.569891I$		

II. $\boldsymbol{I_2^u = \langle -u^{15} - u^{14} + \cdots + u^2 + b,\ -201u^{15} - 115u^{14} + \cdots + 85a - 229,\ u^{16} + u^{15} + \cdots - u - 1\rangle}$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 2.36471u^{15} + 1.35294u^{14} + \cdots - 6.82353u + 2.69412 \\ u^{15} + u^{14} + \cdots - 7u^3 - u^2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 3.49412u^{15} + 3.05882u^{14} + \cdots - 6.47059u + 1.68235 \\ 2.12941u^{15} + 2.70588u^{14} + \cdots + 0.352941u - 1.01176 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 3.49412u^{15} + 3.05882u^{14} + \cdots - 5.47059u + 1.68235 \\ 2.34118u^{15} + 2.58824u^{14} + \cdots - 1.70588u - 0.576471 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 2.27059u^{15} + 2.29412u^{14} + \cdots - 7.35294u - 1.38824 \\ 3u^{14} + 3u^{13} + \cdots - 4u - 4 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.95294u^{15} - 0.529412u^{14} + \cdots + 7.23529u + 6.45882 \\ 3.96471u^{15} - 0.647059u^{14} + \cdots + 3.17647u + 10.0941 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1.48235u^{15} + 3.17647u^{14} + \cdots - 8.41176u - 2.95294 \\ -\frac{16}{5}u^{15} + 3u^{14} + \cdots - 5u - \frac{64}{5} \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1.48235u^{15} + 3.17647u^{14} + \cdots - 8.41176u - 2.95294 \\ -2.83529u^{15} + 2.35294u^{14} + \cdots - 1.82353u - 11.1059 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1.48235u^{15} + 3.17647u^{14} + \cdots - 8.41176u - 2.95294 \\ -2.83529u^{15} + 2.35294u^{14} + \cdots - 1.82353u - 11.1059 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{1404}{85}u^{15} - \frac{541}{17}u^{14} + \cdots + \frac{1353}{17}u + \frac{3829}{85}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - u^{15} + \cdots + 6u^2 - 1$
c_2	$u^{16} + u^{14} + \cdots - 3u - 1$
c_3	$u^{16} + 9u^{15} + \cdots + 48u + 4$
c_4, c_5	$u^{16} - 6u^{14} + \cdots - u + 1$
c_6	$u^{16} - 3u^{15} + \cdots - 3u - 1$
c_7	$u^{16} + 2u^{14} + \cdots - 2u - 1$
c_8	$u^{16} + u^{15} + \cdots - u - 1$
c_9	$u^{16} - 4u^{15} + \cdots + 3u + 1$
c_{10}	$u^{16} - 6u^{14} + \cdots + u + 1$
c_{11}	$u^{16} - u^{15} + \cdots + u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{16} + y^{15} + \cdots - 12y + 1$
c_2	$y^{16} + 2y^{15} + \cdots - 15y + 1$
c_3	$y^{16} - 13y^{15} + \cdots - 1600y + 16$
c_4, c_5, c_{10}	$y^{16} - 12y^{15} + \cdots - 19y + 1$
c_6	$y^{16} + 5y^{15} + \cdots - 11y + 1$
c_7	$y^{16} + 4y^{15} + \cdots - 12y + 1$
c_8, c_{11}	$y^{16} + 7y^{15} + \cdots + 13y + 1$
c_9	$y^{16} - 4y^{15} + \cdots - 9y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.665069 + 0.678799I$ $a = 0.420824 + 1.344970I$ $b = -0.711594 + 0.036986I$	$-3.33249 + 0.34499I$	$2.01757 + 0.37341I$
$u = -0.665069 - 0.678799I$ $a = 0.420824 - 1.344970I$ $b = -0.711594 - 0.036986I$	$-3.33249 - 0.34499I$	$2.01757 - 0.37341I$
$u = 0.343696 + 1.208130I$ $a = 1.53898 - 0.20131I$ $b = 1.098860 - 0.865659I$	$1.66733 + 5.08939I$	$7.99749 - 6.39804I$
$u = 0.343696 - 1.208130I$ $a = 1.53898 + 0.20131I$ $b = 1.098860 + 0.865659I$	$1.66733 - 5.08939I$	$7.99749 + 6.39804I$
$u = 0.083391 + 0.730027I$ $a = 0.297481 + 0.552196I$ $b = 0.53614 + 1.40238I$	$3.97957 - 3.37369I$	$2.06218 + 1.25376I$
$u = 0.083391 - 0.730027I$ $a = 0.297481 - 0.552196I$ $b = 0.53614 - 1.40238I$	$3.97957 + 3.37369I$	$2.06218 - 1.25376I$
$u = 0.306045 + 0.663071I$ $a = 1.27171 + 2.87741I$ $b = 0.792095 + 0.522312I$	$-3.32910 + 4.68558I$	$-1.72806 - 9.06253I$
$u = 0.306045 - 0.663071I$ $a = 1.27171 - 2.87741I$ $b = 0.792095 - 0.522312I$	$-3.32910 - 4.68558I$	$-1.72806 + 9.06253I$
$u = -1.27402$ $a = -0.404742$ $b = -0.485688$	2.72211	31.3500
$u = -0.501271 + 1.175050I$ $a = -1.72984 + 0.28764I$ $b = -0.939350 - 0.528756I$	$-1.52177 - 5.31010I$	$3.27149 + 8.11960I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.501271 - 1.175050I$ $a = -1.72984 - 0.28764I$ $b = -0.939350 + 0.528756I$	$-1.52177 + 5.31010I$	$3.27149 - 8.11960I$
$u = -0.096302 + 0.611710I$ $a = 0.48873 - 1.35280I$ $b = -0.319333 + 0.903954I$	$1.44991 + 2.46756I$	$14.2433 - 0.1322I$
$u = -0.096302 - 0.611710I$ $a = 0.48873 + 1.35280I$ $b = -0.319333 - 0.903954I$	$1.44991 - 2.46756I$	$14.2433 + 0.1322I$
$u = -0.135082 + 1.374290I$ $a = -0.554322 - 0.164051I$ $b = -0.43850 - 1.39183I$	$-7.35161 - 3.81019I$	$1.49699 + 3.24326I$
$u = -0.135082 - 1.374290I$ $a = -0.554322 + 0.164051I$ $b = -0.43850 + 1.39183I$	$-7.35161 + 3.81019I$	$1.49699 - 3.24326I$
$u = 1.60320$ $a = -0.0623831$ $b = 0.449044$	7.57445	-38.0720

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{16} - u^{15} + \cdots + 6u^2 - 1)(u^{51} + 4u^{50} + \cdots + 10304u + 1139)$
c_2	$(u^{16} + u^{14} + \cdots - 3u - 1)(u^{51} + u^{50} + \cdots + 197u + 3)$
c_3	$(u^{16} + 9u^{15} + \cdots + 48u + 4)(u^{51} + 4u^{50} + \cdots - 668u + 28)$
c_4, c_5	$(u^{16} - 6u^{14} + \cdots - u + 1)(u^{51} + u^{50} + \cdots - 15u - 1)$
c_6	$(u^{16} - 3u^{15} + \cdots - 3u - 1)(u^{51} + 14u^{49} + \cdots - 3611u + 487)$
c_7	$(u^{16} + 2u^{14} + \cdots - 2u - 1)(u^{51} - u^{50} + \cdots + 2734u - 367)$
c_8	$(u^{16} + u^{15} + \cdots - u - 1)(u^{51} + 19u^{49} + \cdots + 13u + 1)$
c_9	$(u^{16} - 4u^{15} + \cdots + 3u + 1)(u^{51} + 3u^{50} + \cdots + 17u + 1)$
c_{10}	$(u^{16} - 6u^{14} + \cdots + u + 1)(u^{51} + u^{50} + \cdots - 15u - 1)$
c_{11}	$(u^{16} - u^{15} + \cdots + u - 1)(u^{51} + 19u^{49} + \cdots + 13u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{16}+y^{15}+\cdots-12y+1)$ $\cdot\,(y^{51}+48y^{50}+\cdots+51493582y-1297321)$
c_2	$(y^{16}+2y^{15}+\cdots-15y+1)(y^{51}-11y^{50}+\cdots+48673y-9)$
c_3	$(y^{16}-13y^{15}+\cdots-1600y+16)(y^{51}-54y^{50}+\cdots+361104y-784)$
c_4, c_5, c_{10}	$(y^{16}-12y^{15}+\cdots-19y+1)(y^{51}-13y^{50}+\cdots+69y-1)$
c_6	$(y^{16}+5y^{15}+\cdots-11y+1)$ $\cdot\,(y^{51}+28y^{50}+\cdots-14382675y-237169)$
c_7	$(y^{16}+4y^{15}+\cdots-12y+1)(y^{51}-13y^{50}+\cdots+4303142y-134689)$
c_8, c_{11}	$(y^{16}+7y^{15}+\cdots+13y+1)(y^{51}+38y^{50}+\cdots-63y-1)$
c_9	$(y^{16}-4y^{15}+\cdots-9y+1)(y^{51}+3y^{50}+\cdots+231y-1)$