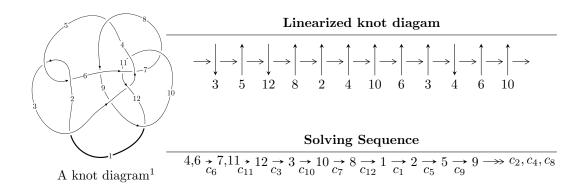
$12n_{0520} (K12n_{0520})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.00773 \times 10^{215} u^{54} + 3.95891 \times 10^{215} u^{53} + \dots + 5.25110 \times 10^{219} b - 1.48407 \times 10^{220}, \\ &- 1.77810 \times 10^{217} u^{54} - 8.41460 \times 10^{217} u^{53} + \dots + 1.78060 \times 10^{221} a + 4.35856 \times 10^{221}, \\ &u^{55} + 3 u^{54} + \dots + 4862 u - 6341 \rangle \\ I_2^u &= \langle 9.41498 \times 10^{23} u^{19} + 2.05689 \times 10^{24} u^{18} + \dots + 9.99999 \times 10^{23} b - 4.03582 \times 10^{24}, \\ &3.23988 \times 10^{25} u^{19} + 7.09015 \times 10^{25} u^{18} + \dots + 9.99999 \times 10^{23} a - 1.70850 \times 10^{26}, \ u^{20} + 2 u^{19} + \dots - 14 u + 10^{20} u^{18} + 10^{20} u^{19} u^{19} + 10^{20} u^{19} u^{19} + 10^{20} u^{19} + 10$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 75 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.
$$I_1^u = \langle -1.01 \times 10^{215} u^{54} + 3.96 \times 10^{215} u^{53} + \dots + 5.25 \times 10^{219} b - 1.48 \times 10^{220}, \ -1.78 \times 10^{217} u^{54} - 8.41 \times 10^{217} u^{53} + \dots + 1.78 \times 10^{221} a + 4.36 \times 10^{221}, \ u^{55} + 3u^{54} + \dots + 4862u - 6341 \rangle$$

(i) Arc colorings

$$\begin{array}{lll} a_4 = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_{11} = \begin{pmatrix} 0.0000998597u^{54} + 0.000472571u^{53} + \cdots - 1.70493u - 2.44781 \\ 0.0000191908u^{54} - 0.0000753920u^{53} + \cdots + 2.51058u + 2.82621 \end{pmatrix} \\ a_{12} = \begin{pmatrix} 0.000119051u^{54} + 0.000397179u^{53} + \cdots + 0.805651u + 0.378407 \\ 0.0000191908u^{54} - 0.0000753920u^{53} + \cdots + 2.51058u + 2.82621 \end{pmatrix} \\ a_3 = \begin{pmatrix} 0.000439453u^{54} + 0.00130155u^{53} + \cdots + 0.556271u + 2.93121 \\ 5.39110 \times 10^{-6}u^{54} - 0.0000762385u^{53} + \cdots + 0.556271u + 2.93121 \\ 0.0000998597u^{54} + 0.000472571u^{53} + \cdots + 1.70493u - 2.44781 \\ 0.0000160377u^{54} - 0.0000345076u^{53} + \cdots + 2.71846u + 1.72927 \\ a_8 = \begin{pmatrix} -0.000018886u^{54} - 0.0000519635u^{53} + \cdots + 1.50476u + 0.832419 \\ -0.000450416u^{54} - 0.00135705u^{53} + \cdots + 13.8133u - 1.51385 \\ -0.000125932u^{54} - 0.000279970u^{53} + \cdots + 6.32497u + 7.75382 \\ -0.000125932u^{54} - 0.000279970u^{53} + \cdots + 6.32497u + 7.75382 \\ -0.000267626u^{54} + 0.000279970u^{53} + \cdots + 3.04412u + 0.737987 \\ 0.000267626u^{54} + 0.000144711u^{53} + \cdots + 3.04412u + 0.737987 \\ 0.000267626u^{54} + 0.000144711u^{53} + \cdots + 8.68003u + 0.274355 \\ 0.000135989u^{54} + 0.000476708u^{53} + \cdots - 8.68003u + 0.274355 \\ 0.000135989u^{54} + 0.000476708u^{53} + \cdots - 2.36634u - 2.92983 \\ 0.000135989u^{54} + 0.000476708u^{53} + \cdots + 12.3085u - 0.681429 \\ -0.000450416u^{54} - 0.00135705u^{53} + \cdots + 12.3085u - 0.681429 \\ -0.000450416u^{54} - 0.00135705u^{53} + \cdots + 13.8133u - 1.51385 \\ \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.00197309u^{54} 0.00651879u^{53} + \cdots + 43.1168u + 3.92550$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{55} + 34u^{54} + \dots + 261u - 169$
c_2, c_5	$u^{55} + 17u^{53} + \dots - u - 13$
<i>c</i> ₃	$u^{55} - 4u^{54} + \dots - 29u - 1$
c_4	$u^{55} - 3u^{54} + \dots - 160u - 29$
c_6	$u^{55} + 3u^{54} + \dots + 4862u - 6341$
c_7,c_{11}	$u^{55} + u^{54} + \dots + 1301u - 319$
<i>C</i> ₈	$u^{55} + 9u^{54} + \dots - 23423u - 2897$
<i>c</i> ₉	$u^{55} - 2u^{54} + \dots - 8637u - 2059$
c_{10}	$u^{55} + 2u^{54} + \dots + 31739u - 6187$
c_{12}	$u^{55} + 4u^{54} + \dots + 5373u - 431$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{55} - 18y^{54} + \dots + 2763333y - 28561$
c_2, c_5	$y^{55} + 34y^{54} + \dots + 261y - 169$
<i>c</i> ₃	$y^{55} - 6y^{54} + \dots + 581y - 1$
c_4	$y^{55} - 5y^{54} + \dots - 35184y - 841$
c_6	$y^{55} + 73y^{54} + \dots - 1088711858y - 40208281$
c_7, c_{11}	$y^{55} + 63y^{54} + \dots - 2658559y - 101761$
<i>c</i> ₈	$y^{55} + 35y^{54} + \dots - 164702969y - 8392609$
<i>c</i> ₉	$y^{55} + 62y^{54} + \dots - 51063001y - 4239481$
c_{10}	$y^{55} - 68y^{54} + \dots + 631132651y - 38278969$
c_{12}	$y^{55} + 50y^{54} + \dots + 5965789y - 185761$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\int \sqrt{-1}(\operatorname{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.458700 + 0.836212I		
a = 0.47157 + 1.49663I	0.11183 + 1.55303I	1.95072 - 2.89152I
b = 0.305132 - 0.747908I		
u = 0.458700 - 0.836212I		
a = 0.47157 - 1.49663I	0.11183 - 1.55303I	1.95072 + 2.89152I
b = 0.305132 + 0.747908I		
u = 0.913175 + 0.260802I		
a = -0.223977 - 0.423038I	3.80751 - 0.71144I	10.81195 - 1.56897I
b = -0.550856 - 0.738530I		
u = 0.913175 - 0.260802I		
a = -0.223977 + 0.423038I	3.80751 + 0.71144I	10.81195 + 1.56897I
b = -0.550856 + 0.738530I		
u = -1.113670 + 0.091899I		
a = -0.65683 + 1.51641I	-5.06254 + 5.92628I	04.32930I
b = 0.111069 - 0.811383I		
u = -1.113670 - 0.091899I		
a = -0.65683 - 1.51641I	-5.06254 - 5.92628I	0. + 4.32930I
b = 0.111069 + 0.811383I		
u = 0.797854 + 0.338507I		
a = 1.240170 + 0.296206I	0.29315 - 1.97385I	5.19969 + 3.03837I
b = -0.473741 + 0.512242I		
u = 0.797854 - 0.338507I		
a = 1.240170 - 0.296206I	0.29315 + 1.97385I	5.19969 - 3.03837I
b = -0.473741 - 0.512242I		
u = -0.591324 + 0.479194I		
a = -0.793327 + 0.649542I	3.30919 - 4.09772I	10.16062 + 6.84746I
b = -0.407085 + 0.865255I		
u = -0.591324 - 0.479194I		
a = -0.793327 - 0.649542I	3.30919 + 4.09772I	10.16062 - 6.84746I
b = -0.407085 - 0.865255I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.708799 + 0.253071I		
a = 0.831284 + 0.009450I	-1.81477 - 2.14360I	1.18374 + 4.80550I
b = -0.209759 + 0.509237I		
u = -0.708799 - 0.253071I		
a = 0.831284 - 0.009450I	-1.81477 + 2.14360I	1.18374 - 4.80550I
b = -0.209759 - 0.509237I		
u = 0.138897 + 0.673640I		
a = 0.011792 - 0.623544I	-7.26057 + 1.21645I	0.427980 + 0.554142I
b = 0.910818 - 0.785919I		
u = 0.138897 - 0.673640I		
a = 0.011792 + 0.623544I	-7.26057 - 1.21645I	0.427980 - 0.554142I
b = 0.910818 + 0.785919I		
u = -0.409118 + 0.518801I		
a = 1.81243 - 0.36306I	0.707490 + 1.043870I	2.63060 + 1.21674I
b = -0.368450 - 0.362485I		
u = -0.409118 - 0.518801I		
a = 1.81243 + 0.36306I	0.707490 - 1.043870I	2.63060 - 1.21674I
b = -0.368450 + 0.362485I		
u = -0.467933 + 1.326800I		
a = 0.355998 + 0.883423I	-2.57844 + 3.79796I	0
b = -0.520534 - 1.220730I		
u = -0.467933 - 1.326800I		
a = 0.355998 - 0.883423I	-2.57844 - 3.79796I	0
b = -0.520534 + 1.220730I		
u = -0.177490 + 0.564262I		
a = 0.264895 + 0.985043I	-2.81057 + 3.19886I	4.08250 - 3.76051I
b = 1.079970 + 0.527227I		
u = -0.177490 - 0.564262I		
a = 0.264895 - 0.985043I	-2.81057 - 3.19886I	4.08250 + 3.76051I
b = 1.079970 - 0.527227I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.122496 + 0.504032I		
a = 0.083451 - 1.312890I	-6.14972 - 8.50203I	1.50480 + 6.85692I
b = 1.280030 - 0.596135I		
u = 0.122496 - 0.504032I		
a = 0.083451 + 1.312890I	-6.14972 + 8.50203I	1.50480 - 6.85692I
b = 1.280030 + 0.596135I		
u = -0.038547 + 0.511598I		
a = 1.50581 + 0.77163I	0.38570 + 1.60336I	2.33296 - 4.99216I
b = 0.185020 - 0.254061I		
u = -0.038547 - 0.511598I		
a = 1.50581 - 0.77163I	0.38570 - 1.60336I	2.33296 + 4.99216I
b = 0.185020 + 0.254061I		
u = 0.454497		
a = 0.867401	0.882935	11.1550
b = -0.487142		
u = -0.35658 + 1.53590I		
a = -0.006681 - 1.169070I	-7.14735 - 6.72459I	0
b = -0.22183 + 1.78303I		
u = -0.35658 - 1.53590I		
a = -0.006681 + 1.169070I	-7.14735 + 6.72459I	0
b = -0.22183 - 1.78303I		
u = 1.32120 + 0.87148I		
a = 0.072899 - 0.543533I	-0.103767 + 0.867284I	0
b = -0.362960 + 0.792328I		
u = 1.32120 - 0.87148I		
a = 0.072899 + 0.543533I	-0.103767 - 0.867284I	0
b = -0.362960 - 0.792328I		
u = 0.150297 + 0.353433I		
a = 1.088790 - 0.154193I	1.04688 - 1.12802I	-3.55524 - 3.81322I
b = -1.184760 + 0.246323I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.150297 - 0.353433I		
a = 1.088790 + 0.154193I	1.04688 + 1.12802I	-3.55524 + 3.81322I
b = -1.184760 - 0.246323I		
u = 0.19519 + 1.66111I		
a = 0.124385 + 1.042830I	-4.50056 + 3.53769I	0
b = -0.23067 - 1.60897I		
u = 0.19519 - 1.66111I		
a = 0.124385 - 1.042830I	-4.50056 - 3.53769I	0
b = -0.23067 + 1.60897I		
u = -0.17081 + 1.69824I		
a = 0.260758 - 1.042020I	-1.68388 + 4.70781I	0
b = 0.445170 + 1.129250I		
u = -0.17081 - 1.69824I		
a = 0.260758 + 1.042020I	-1.68388 - 4.70781I	0
b = 0.445170 - 1.129250I		
u = -0.37546 + 1.72257I		
a = -0.042439 - 0.816658I	-6.17568 - 1.37212I	0
b = -0.01000 + 1.66318I		
u = -0.37546 - 1.72257I		
a = -0.042439 + 0.816658I	-6.17568 + 1.37212I	0
b = -0.01000 - 1.66318I		
u = -0.47575 + 1.78827I		
a = -0.437619 - 0.836026I	-10.05530 - 0.59545I	0
b = -0.01817 + 1.74737I		
u = -0.47575 - 1.78827I		
a = -0.437619 + 0.836026I	-10.05530 + 0.59545I	0
b = -0.01817 - 1.74737I		
u = 0.50496 + 1.78171I		
a = -0.451915 + 0.949040I	-14.8051 + 5.1933I	0
b = 0.01078 - 1.76502I		
•		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.50496 - 1.78171I		
a = -0.451915 - 0.949040I	-14.8051 - 5.1933I	0
b = 0.01078 + 1.76502I		
u = 0.47150 + 1.79275I		
a = -0.520806 + 0.790076I	-13.3198 - 4.9860I	0
b = -0.02767 - 1.71161I		
u = 0.47150 - 1.79275I		
a = -0.520806 - 0.790076I	-13.3198 + 4.9860I	0
b = -0.02767 + 1.71161I		
u = 0.48338 + 1.81853I		
a = 0.197047 + 0.819227I	-6.21422 + 3.83703I	0
b = -0.06259 - 1.51621I		
u = 0.48338 - 1.81853I		
a = 0.197047 - 0.819227I	-6.21422 - 3.83703I	0
b = -0.06259 + 1.51621I		
u = -1.78497 + 0.62407I		
a = -0.272598 + 0.574120I	-4.48898 - 5.80054I	0
b = -0.141685 - 0.657394I		
u = -1.78497 - 0.62407I		
a = -0.272598 - 0.574120I	-4.48898 + 5.80054I	0
b = -0.141685 + 0.657394I		
u = 0.40813 + 2.08970I		
a = 0.007416 - 0.968701I	-9.89971 + 9.10784I	0
b = 0.45117 + 1.67641I		
u = 0.40813 - 2.08970I		
a = 0.007416 + 0.968701I	-9.89971 - 9.10784I	0
b = 0.45117 - 1.67641I		
u = -0.21276 + 2.13416I		
a = 0.217139 - 0.984595I	-8.29738 - 3.26193I	0
b = -0.08489 + 1.49140I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.21276 - 2.13416I		
a = 0.217139 + 0.984595I	-8.29738 + 3.26193I	0
b = -0.08489 - 1.49140I		
u = -0.47216 + 2.09522I		
a = -0.031964 + 0.982080I	-13.6692 - 14.9575I	0
b = 0.44713 - 1.72011I		
u = -0.47216 - 2.09522I		
a = -0.031964 - 0.982080I	-13.6692 + 14.9575I	0
b = 0.44713 + 1.72011I		
u = -0.33765 + 2.15781I		
a = 0.049776 + 1.003920I	-14.8380 - 3.7469I	0
b = 0.39293 - 1.63470I		
u = -0.33765 - 2.15781I		
a = 0.049776 - 1.003920I	-14.8380 + 3.7469I	0
b = 0.39293 + 1.63470I		

$$\begin{array}{c} \text{II. } I_2^u = \\ \langle 9.41 \times 10^{23} u^{19} + 2.06 \times 10^{24} u^{18} + \cdots + 1.00 \times 10^{24} b - 4.04 \times 10^{24}, \ 3.24 \times 10^{25} u^{19} + \\ 7.09 \times 10^{25} u^{18} + \cdots + 1.00 \times 10^{24} a - 1.71 \times 10^{26}, \ u^{20} + 2u^{19} + \cdots - 14u + 1 \rangle \end{array}$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{11} = \begin{pmatrix} -32.3988u^{19} - 70.9016u^{18} + \dots - 1491.77u + 170.850 \\ -0.941499u^{19} - 2.05689u^{18} + \dots - 43.9860u + 4.03582 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -33.3403u^{19} - 72.9585u^{18} + \dots - 1535.76u + 174.886 \\ -0.941499u^{19} - 2.05689u^{18} + \dots - 43.9860u + 4.03582 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -16.8236u^{19} - 36.8452u^{18} + \dots - 771.199u + 85.2522 \\ 5.36412u^{19} + 11.7183u^{18} + \dots + 248.289u - 28.2108 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -32.3988u^{19} - 70.9016u^{18} + \dots - 1491.77u + 170.850 \\ 0.168831u^{19} + 0.351278u^{18} + \dots + 9.07021u - 2.06811 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -26.5155u^{19} - 58.0667u^{18} + \dots - 1216.85u + 140.767 \\ -0.753809u^{19} - 1.66202u^{18} + \dots - 33.7724u + 2.85889 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -13.0882u^{19} - 28.5954u^{18} + \dots - 607.666u + 65.7562 \\ 4.56802u^{19} + 9.98468u^{18} + \dots + 210.998u - 23.7432 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -13.1542u^{19} - 28.7857u^{18} + \dots - 606.496u + 64.0210 \\ 7.11259u^{19} + 15.5565u^{18} + \dots + 326.928u - 36.6149 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -32.6380u^{19} - 71.5392u^{18} + \dots - 1489.53u + 168.175 \\ 3.97446u^{19} + 8.71120u^{18} + \dots + 182.668u - 21.0322 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -27.2693u^{19} - 59.7288u^{18} + \dots - 1250.62u + 143.626 \\ -0.753809u^{19} - 1.66202u^{18} + \dots - 33.7724u + 2.85889 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $-\frac{62641622421330731218172603}{999998536254646311244669}u^{19} - \frac{137124516846403670777326513}{999998536254646311244669}u^{18} + \cdots - \frac{2878152757722006579821255122}{999998536254646311244669}u + \frac{338046622815474243224796674}{999998536254646311244669}u^{18} + \frac{33804662281547424324796674}{999998536254646311244669}u^{18} + \frac{33804662281547424324796674}{999998536254646311244669}u^{18} + \frac{33804662281547424324796674}{999998536254646311244669}u^{18} + \frac{33804662281547424324796674}{999998536254646311244669}u^{18} + \frac{3380466281547424324796674}{999998536254646311244669}u^{18} + \frac{33804662881547424324796674}{999998536254646311244669}u^{18} + \frac{3380466288154744699}{999988536254646311244669}u^{18} + \frac{338046628815474469}{999988536254646311244669}u^{18} + \frac{3380466288154744469}{99998856254646311244669}u^{18} + \frac{3380466288154744469}{99998856254646311244669}u^{18} + \frac{3380466288154744469}{99998856254646311244669}u^{18} + \frac{3380466288154744469}{99998856254646311244669}u^{18} + \frac{3380466288154744469}{9999885625464631124669}u^{18} + \frac{338046628815474469}{9999885625464631146469}u^{18} + \frac{338046628815474469}{999$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20} - 11u^{19} + \dots - 13u + 1$
c_2	$u^{20} + 3u^{19} + \dots + 3u + 1$
c_3	$u^{20} + 3u^{19} + \dots + u + 1$
c_4	$u^{20} - 2u^{19} + \dots - 7u^2 + 1$
c_5	$u^{20} - 3u^{19} + \dots - 3u + 1$
c_6	$u^{20} + 2u^{19} + \dots - 14u + 1$
c_7	$u^{20} + 4u^{19} + \dots + 5u + 1$
c_8	$u^{20} + 2u^{18} + \dots + u + 1$
c_9	$u^{20} - u^{19} + \dots + 11u + 1$
c_{10}	$u^{20} + u^{19} + \dots - 103u + 73$
c_{11}	$u^{20} - 4u^{19} + \dots - 5u + 1$
c_{12}	$u^{20} - 3u^{19} + \dots - u + 1$
	10

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{20} + 3y^{19} + \dots - 11y + 1$
c_2, c_5	$y^{20} + 11y^{19} + \dots + 13y + 1$
<i>c</i> ₃	$y^{20} + 11y^{19} + \dots + 9y + 1$
<i>C</i> ₄	$y^{20} - 16y^{19} + \dots - 14y + 1$
c_6	$y^{20} + 10y^{19} + \dots - 64y + 1$
c_7,c_{11}	$y^{20} + 16y^{19} + \dots + 9y + 1$
<i>c</i> ₈	$y^{20} + 4y^{19} + \dots - 25y + 1$
<i>c</i> ₉	$y^{20} + 11y^{19} + \dots - 21y + 1$
c_{10}	$y^{20} - 7y^{19} + \dots + 8663y + 5329$
c_{12}	$y^{20} + 11y^{19} + \dots + 13y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.940992 + 0.620229I		
a = 0.773568 + 0.165278I	3.34471 - 1.65498I	6.43907 + 4.20509I
b = 0.231111 + 0.786500I		
u = 0.940992 - 0.620229I		
a = 0.773568 - 0.165278I	3.34471 + 1.65498I	6.43907 - 4.20509I
b = 0.231111 - 0.786500I		
u = -0.842075 + 0.871841I		
a = 0.793322 + 0.085027I	2.16792 - 3.50657I	3.05923 + 2.59992I
b = 0.226922 - 1.109400I		
u = -0.842075 - 0.871841I		
a = 0.793322 - 0.085027I	2.16792 + 3.50657I	3.05923 - 2.59992I
b = 0.226922 + 1.109400I		
u = -0.402447 + 0.588078I		
a = 1.56479 + 0.11995I	-0.64497 + 2.98534I	3.61521 - 5.29378I
b = -0.468313 - 1.079950I		
u = -0.402447 - 0.588078I		
a = 1.56479 - 0.11995I	-0.64497 - 2.98534I	3.61521 + 5.29378I
b = -0.468313 + 1.079950I		
u = 1.134020 + 0.818765I		
a = 0.079337 - 1.103920I	0.85761 + 1.50900I	14.5318 - 3.4126I
b = -0.220466 + 0.561392I		
u = 1.134020 - 0.818765I		
a = 0.079337 + 1.103920I	0.85761 - 1.50900I	14.5318 + 3.4126I
b = -0.220466 - 0.561392I		
u = 0.339290 + 0.111161I		
a = 1.95398 + 1.57017I	1.42125 - 1.38443I	14.3541 + 3.8433I
b = -0.748209 + 0.283121I		
u = 0.339290 - 0.111161I		
a = 1.95398 - 1.57017I	1.42125 + 1.38443I	14.3541 - 3.8433I
b = -0.748209 - 0.283121I		

u = -0.57084 + 1.62511I $a = 0.163422 - 1.039380I - 7.72375 - 4.56543I - 0.60389 + 5.70$ $b = 0.07015 + 1.53272I$)350 <i>I</i>
)350 <i>I</i>
b = 0.07015 + 1.52272I	
b = 0.07015 + 1.53272I	
u = -0.57084 - 1.62511I	
a = 0.163422 + 1.039380I -7.72375 + 4.56543I -0.60389 -5.70	350I
b = 0.07015 - 1.53272I	
u = -1.74775 + 0.15837I	
a = -0.006275 - 0.902457I $-3.96953 + 6.70083I$ $6.00000 - 9.43$	611I
b = 0.323711 + 0.686202I	
u = -1.74775 - 0.15837I	
a = -0.006275 + 0.902457I $-3.96953 - 6.70083I$ $6.00000 + 9.43$	611I
b = 0.323711 - 0.686202I	
u = 0.193733 + 0.009969I	
a = 2.07668 - 3.17071I $1.40571 + 1.37087I$ $13.2500 - 6.0607$	434I
b = -0.874447 - 0.085240I	
u = 0.193733 - 0.009969I	
a = 2.07668 + 3.17071I $1.40571 - 1.37087I$ $13.2500 + 6.0681$	434I
b = -0.874447 + 0.085240I	
u = 0.24584 + 1.80696I	
a = 0.179807 + 0.867154I -5.72982 + 2.73889I 4.19668 - 0.498891	415I
b = -0.12456 - 1.62181I	
u = 0.24584 - 1.80696I	
a = 0.179807 - 0.867154I -5.72982 - 2.73889I 4.19668 + 0.49887 - 0.49889 - 0.48889 - 0.48889 - 0.48889 - 0.48889 - 0.48889 - 0.48889 - 0.48889 - 0.08889 - 0.08889 -	415I
b = -0.12456 + 1.62181I	
u = -0.29077 + 1.90159I	
a = -0.078632 + 0.972344I $-0.99873 + 4.79549I$ $12.00812 - 6.11$	1844I
b = -0.415898 - 1.061560I	
u = -0.29077 - 1.90159I	
a = -0.078632 - 0.972344I $-0.99873 - 4.79549I$ $12.00812 + 6.116181$	1844I
b = -0.415898 + 1.061560I	

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{20} - 11u^{19} + \dots - 13u + 1)(u^{55} + 34u^{54} + \dots + 261u - 169) $
c_2	$(u^{20} + 3u^{19} + \dots + 3u + 1)(u^{55} + 17u^{53} + \dots - u - 13)$
c_3	$(u^{20} + 3u^{19} + \dots + u + 1)(u^{55} - 4u^{54} + \dots - 29u - 1)$
c_4	$(u^{20} - 2u^{19} + \dots - 7u^2 + 1)(u^{55} - 3u^{54} + \dots - 160u - 29)$
c_5	$(u^{20} - 3u^{19} + \dots - 3u + 1)(u^{55} + 17u^{53} + \dots - u - 13)$
c_6	$(u^{20} + 2u^{19} + \dots - 14u + 1)(u^{55} + 3u^{54} + \dots + 4862u - 6341)$
c_7	$(u^{20} + 4u^{19} + \dots + 5u + 1)(u^{55} + u^{54} + \dots + 1301u - 319)$
c_8	$ (u^{20} + 2u^{18} + \dots + u + 1)(u^{55} + 9u^{54} + \dots - 23423u - 2897) $
c_9	$(u^{20} - u^{19} + \dots + 11u + 1)(u^{55} - 2u^{54} + \dots - 8637u - 2059)$
c_{10}	$(u^{20} + u^{19} + \dots - 103u + 73)(u^{55} + 2u^{54} + \dots + 31739u - 6187)$
c_{11}	$(u^{20} - 4u^{19} + \dots - 5u + 1)(u^{55} + u^{54} + \dots + 1301u - 319)$
c_{12}	$(u^{20} - 3u^{19} + \dots - u + 1)(u^{55} + 4u^{54} + \dots + 5373u - 431)$ 18

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{20} + 3y^{19} + \dots - 11y + 1)(y^{55} - 18y^{54} + \dots + 2763333y - 28561)$
c_2,c_5	$(y^{20} + 11y^{19} + \dots + 13y + 1)(y^{55} + 34y^{54} + \dots + 261y - 169)$
c_3	$(y^{20} + 11y^{19} + \dots + 9y + 1)(y^{55} - 6y^{54} + \dots + 581y - 1)$
C4	$(y^{20} - 16y^{19} + \dots - 14y + 1)(y^{55} - 5y^{54} + \dots - 35184y - 841)$
c_6	$(y^{20} + 10y^{19} + \dots - 64y + 1)$ $\cdot (y^{55} + 73y^{54} + \dots - 1088711858y - 40208281)$
c_7, c_{11}	$(y^{20} + 16y^{19} + \dots + 9y + 1)(y^{55} + 63y^{54} + \dots - 2658559y - 101761)$
C ₈	$(y^{20} + 4y^{19} + \dots - 25y + 1)$ $\cdot (y^{55} + 35y^{54} + \dots - 164702969y - 8392609)$
<i>c</i> 9	$(y^{20} + 11y^{19} + \dots - 21y + 1)$ $\cdot (y^{55} + 62y^{54} + \dots - 51063001y - 4239481)$
c_{10}	$(y^{20} - 7y^{19} + \dots + 8663y + 5329)$ $\cdot (y^{55} - 68y^{54} + \dots + 631132651y - 38278969)$
c_{12}	$(y^{20} + 11y^{19} + \dots + 13y + 1)$ $\cdot (y^{55} + 50y^{54} + \dots + 5965789y - 185761)$