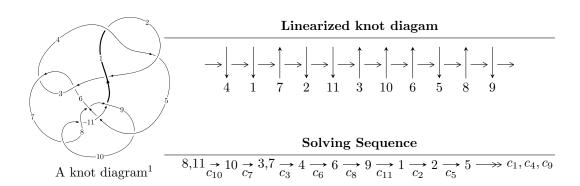
$11a_{24} (K11a_{24})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 1.30067 \times 10^{214} u^{83} - 4.91022 \times 10^{214} u^{82} + \dots + 8.55509 \times 10^{215} b - 2.17725 \times 10^{215},$$

$$8.45896 \times 10^{215} u^{83} + 3.25448 \times 10^{216} u^{82} + \dots + 8.55509 \times 10^{215} a - 2.49116 \times 10^{216}, \ u^{84} + 2u^{83} + \dots + 14u^{84} u^{84} + 2u^{84} u^{84} u^{84} + 2u^{84} u^{84} u^{$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 90 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.
$$I_1^u = \langle 1.30 \times 10^{214} u^{83} - 4.91 \times 10^{214} u^{82} + \cdots + 8.56 \times 10^{215} b - 2.18 \times 10^{215}$$
, $8.46 \times 10^{215} u^{83} + 3.25 \times 10^{216} u^{82} + \cdots + 8.56 \times 10^{215} a - 2.49 \times 10^{216}$, $u^{84} + 2u^{83} + \cdots + 14u + 1 \rangle$

(i) Arc colorings

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

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

$$a_{10} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.988763u^{83} - 3.80414u^{82} + \dots - 6.80025u + 2.91191 \\ -0.0152035u^{83} + 0.0573954u^{82} + \dots - 3.42563u + 0.254498 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} -1.04577u^{83} - 4.16450u^{82} + \dots - 4.88381u + 2.99155 \\ 0.0467883u^{83} + 0.218798u^{82} + \dots - 1.83625u + 0.421194 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -1.24732u^{83} - 2.76350u^{82} + \dots - 86.8323u - 7.08081 \\ -0.169313u^{83} - 0.538520u^{82} + \dots - 6.89260u - 0.832713 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -1.41797u^{83} - 4.43349u^{82} + \dots + 16.8513u + 4.89152 \\ 0.467127u^{83} + 0.263584u^{82} + \dots + 3.80614u + 0.383121 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.407084u^{83} - 1.47948u^{82} + \dots + 4.70101u + 1.83199 \\ u^{3} - u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -1.94358u^{83} - 6.48012u^{82} + \dots - 41.4182u + 1.42713 \\ -0.0634831u^{83} - 0.0744360u^{82} + \dots - 5.93872u + 0.0614765 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -1.41663u^{83} - 3.30202u^{82} + \dots - 93.7249u - 7.91353 \\ -0.169313u^{83} - 0.538520u^{82} + \dots - 6.89260u - 0.832713 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -1.41663u^{83} - 3.30202u^{82} + \dots - 93.7249u - 7.91353 \\ -0.169313u^{83} - 0.538520u^{82} + \dots - 6.89260u - 0.832713 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $3.48179u^{83} + 6.91671u^{82} + \cdots 1.21890u 4.16059$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{84} - 7u^{83} + \dots - 3u + 1$
c_2	$u^{84} + 41u^{83} + \dots - 157u + 1$
c_3, c_6	$u^{84} - u^{83} + \dots - 320u + 64$
<i>C</i> ₅	$u^{84} - 6u^{83} + \dots - 2u + 1$
c_7, c_{10}	$u^{84} + 2u^{83} + \dots + 14u + 1$
c ₈	$u^{84} + 6u^{83} + \dots - 1166u - 101$
<i>c</i> ₉	$u^{84} + 2u^{83} + \dots - 418u + 367$
c_{11}	$u^{84} - 14u^{83} + \dots - 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{84} - 41y^{83} + \dots + 157y + 1$
c_2	$y^{84} + 11y^{83} + \dots - 14895y + 1$
c_3, c_6	$y^{84} - 39y^{83} + \dots - 61440y + 4096$
<i>C</i> ₅	$y^{84} + 14y^{83} + \dots + 6y + 1$
c_7, c_{10}	$y^{84} - 54y^{83} + \dots - 14y + 1$
c ₈	$y^{84} - 82y^{83} + \dots - 878594y + 10201$
<i>c</i> ₉	$y^{84} - 66y^{83} + \dots + 5678926y + 134689$
c_{11}	$y^{84} - 6y^{83} + \dots - 14y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.997274 + 0.064037I		
a = -1.81059 - 1.67983I	-0.170119 + 1.192110I	0
b = -0.108509 + 0.553528I		
u = 0.997274 - 0.064037I		
a = -1.81059 + 1.67983I	-0.170119 - 1.192110I	0
b = -0.108509 - 0.553528I		
u = -0.102288 + 0.984625I		
a = -0.16025 - 1.96694I	-3.75795 + 2.95090I	0
b = 0.29383 + 3.01137I		
u = -0.102288 - 0.984625I		
a = -0.16025 + 1.96694I	-3.75795 - 2.95090I	0
b = 0.29383 - 3.01137I		
u = -0.664606 + 0.732185I		
a = -0.123840 + 0.343728I	-3.09506 + 1.90596I	0
b = 0.763633 + 0.462053I		
u = -0.664606 - 0.732185I		
a = -0.123840 - 0.343728I	-3.09506 - 1.90596I	0
b = 0.763633 - 0.462053I		
u = -0.863087 + 0.537497I		
a = 0.371639 - 0.064568I	-2.46714 - 6.77503I	0
b = 0.655881 - 0.397465I		
u = -0.863087 - 0.537497I		
a = 0.371639 + 0.064568I	-2.46714 + 6.77503I	0
b = 0.655881 + 0.397465I		
u = -0.949424 + 0.157182I		
a = -0.074074 + 0.452890I	-0.71473 - 2.85212I	0
b = 0.331741 + 1.326920I		
u = -0.949424 - 0.157182I		
a = -0.074074 - 0.452890I	-0.71473 + 2.85212I	0
b = 0.331741 - 1.326920I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.016320 + 0.211690I		
a = 0.675398 + 0.703466I	1.89935 + 0.79593I	0
b = -0.047691 + 0.460046I		
u = 1.016320 - 0.211690I		
a = 0.675398 - 0.703466I	1.89935 - 0.79593I	0
b = -0.047691 - 0.460046I		
u = -1.018820 + 0.211435I		
a = -0.112800 + 0.423033I	1.52052 - 3.66155I	0
b = -0.549106 + 0.960886I		
u = -1.018820 - 0.211435I		
a = -0.112800 - 0.423033I	1.52052 + 3.66155I	0
b = -0.549106 - 0.960886I		
u = -0.059119 + 1.083010I		
a = 0.054493 - 0.690871I	-3.10217 + 5.44544I	0
b = -1.11124 + 1.07233I		
u = -0.059119 - 1.083010I		
a = 0.054493 + 0.690871I	-3.10217 - 5.44544I	0
b = -1.11124 - 1.07233I		
u = 1.082570 + 0.076456I		
a = -3.41552 + 1.14018I	3.90317 + 1.17062I	0
b = 0.248058 - 0.161656I		
u = 1.082570 - 0.076456I		
a = -3.41552 - 1.14018I	3.90317 - 1.17062I	0
b = 0.248058 + 0.161656I		
u = 0.911327 + 0.012256I		
a = 2.26398 - 4.32538I	-0.506438 - 0.641182I	14.9092 + 0.I
b = -0.798363 + 0.238635I		
u = 0.911327 - 0.012256I	0.500400 . 0.0451007	11,000
a = 2.26398 + 4.32538I	-0.506438 + 0.641182I	14.9092 + 0.I
b = -0.798363 - 0.238635I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.079110 + 0.152121I		
a = 2.69645 - 1.48029I	2.03656 + 6.17754I	0
b = -0.222009 + 0.307833I		
u = 1.079110 - 0.152121I		
a = 2.69645 + 1.48029I	2.03656 - 6.17754I	0
b = -0.222009 - 0.307833I		
u = 0.453075 + 0.998389I		
a = -0.39643 + 1.40161I	3.23379 + 3.44018I	0
b = -0.93881 - 1.91477I		
u = 0.453075 - 0.998389I		
a = -0.39643 - 1.40161I	3.23379 - 3.44018I	0
b = -0.93881 + 1.91477I		
u = -0.437239 + 1.006900I		
a = 0.042406 - 0.448835I	-3.77732 - 0.83071I	0
b = -1.137930 + 0.255603I		
u = -0.437239 - 1.006900I		
a = 0.042406 + 0.448835I	-3.77732 + 0.83071I	0
b = -1.137930 - 0.255603I		
u = -1.102510 + 0.205014I		
a = 1.050110 + 0.276781I	4.58405 - 3.81524I	0
b = -0.982351 - 0.112643I		
u = -1.102510 - 0.205014I		
a = 1.050110 - 0.276781I	4.58405 + 3.81524I	0
b = -0.982351 + 0.112643I		
u = -0.869525 + 0.090739I		
a = -0.215754 + 1.105480I	-1.87887 - 1.58264I	-12.5915 + 7.5531I
b = 1.26313 + 0.82270I		
u = -0.869525 - 0.090739I		
a = -0.215754 - 1.105480I	-1.87887 + 1.58264I	-12.5915 - 7.5531I
b = 1.26313 - 0.82270I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.116610 + 0.326840I		
a = -1.124930 - 0.288206I	2.02563 - 9.85203I	0
b = 0.860409 + 0.470013I		
u = -1.116610 - 0.326840I		
a = -1.124930 + 0.288206I	2.02563 + 9.85203I	0
b = 0.860409 - 0.470013I		
u = -0.825783		
a = -0.898341	-2.21927	-13.1200
b = 1.69707		
u = 0.019790 + 1.184810I		
a = 0.09744 + 1.58758I	1.35757 + 6.09736I	0
b = -0.74986 - 2.86475I		
u = 0.019790 - 1.184810I		
a = 0.09744 - 1.58758I	1.35757 - 6.09736I	0
b = -0.74986 + 2.86475I		
u = 0.760656 + 0.267559I		
a = -1.60985 - 0.17899I	1.30476 - 4.74367I	0.87707 + 10.18383I
b = -0.171440 + 0.438489I		
u = 0.760656 - 0.267559I		
a = -1.60985 + 0.17899I	1.30476 + 4.74367I	0.87707 - 10.18383I
b = -0.171440 - 0.438489I		
u = 0.753131 + 0.965934I		
a = 0.474949 - 1.156420I	2.30506 - 1.39249I	0
b = 1.32505 + 1.38024I		
u = 0.753131 - 0.965934I		
a = 0.474949 + 1.156420I	2.30506 + 1.39249I	0
b = 1.32505 - 1.38024I		
u = -0.058016 + 0.768540I		
a = 0.315104 + 0.734938I	-1.24805 + 1.52698I	-2.33035 - 1.80956I
b = 0.518190 - 0.960123I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.058016 - 0.768540I		
a = 0.315104 - 0.734938I	-1.24805 - 1.52698I	-2.33035 + 1.80956I
b = 0.518190 + 0.960123I		
u = -0.068869 + 1.265220I		
a = -0.22787 - 1.51980I	-1.04730 + 11.43990I	0
b = 0.81020 + 3.04589I		
u = -0.068869 - 1.265220I		
a = -0.22787 + 1.51980I	-1.04730 - 11.43990I	0
b = 0.81020 - 3.04589I		
u = 1.185150 + 0.478372I		
a = -2.83251 + 0.12958I	0.55551 + 1.40163I	0
b = -0.11437 - 3.23192I		
u = 1.185150 - 0.478372I		
a = -2.83251 - 0.12958I	0.55551 - 1.40163I	0
b = -0.11437 + 3.23192I		
u = -1.120340 + 0.633983I		
a = -0.107831 - 0.145857I	-1.61526 - 4.99229I	0
b = -0.478833 - 0.286891I		
u = -1.120340 - 0.633983I		
a = -0.107831 + 0.145857I	-1.61526 + 4.99229I	0
b = -0.478833 + 0.286891I		
u = -1.313920 + 0.221045I		
a = 1.40367 - 0.49380I	8.69358 - 1.42500I	0
b = -0.39515 - 1.46173I		
u = -1.313920 - 0.221045I		
a = 1.40367 + 0.49380I	8.69358 + 1.42500I	0
b = -0.39515 + 1.46173I		
u = -1.269980 + 0.456591I		
a = 0.019552 + 0.257799I	2.49717 - 6.15202I	0
b = 0.197110 + 0.903459I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.269980 - 0.456591I		
a = 0.019552 - 0.257799I	2.49717 + 6.15202I	0
b = 0.197110 - 0.903459I		
u = -1.287330 + 0.518358I		
a = 2.19968 + 0.03083I	-0.05021 - 8.32055I	0
b = 0.07851 - 2.92753I		
u = -1.287330 - 0.518358I		
a = 2.19968 - 0.03083I	-0.05021 + 8.32055I	0
b = 0.07851 + 2.92753I		
u = -1.359920 + 0.328154I		
a = -1.59384 + 0.34412I	8.89963 - 7.63957I	0
b = 0.13897 + 1.87600I		
u = -1.359920 - 0.328154I		
a = -1.59384 - 0.34412I	8.89963 + 7.63957I	0
b = 0.13897 - 1.87600I		
u = 1.372270 + 0.321304I		
a = -0.513421 + 1.100380I	2.02169 - 0.07920I	0
b = -1.12473 + 0.93046I		
u = 1.372270 - 0.321304I		
a = -0.513421 - 1.100380I	2.02169 + 0.07920I	0
b = -1.12473 - 0.93046I		
u = 1.27275 + 0.62263I		
a = 0.488260 - 0.932888I	1.46677 + 3.41872I	0
b = 1.53439 - 0.11482I		
u = 1.27275 - 0.62263I		
a = 0.488260 + 0.932888I	1.46677 - 3.41872I	0
b = 1.53439 + 0.11482I		
u = -1.32371 + 0.54168I		
a = -0.055111 - 0.254827I	0.85835 - 11.16100I	0
b = -0.432725 - 0.905285I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.32371 - 0.54168I		
a = -0.055111 + 0.254827I	0.85835 + 11.16100I	0
b = -0.432725 + 0.905285I		
u = 0.533566 + 0.191258I		
a = 2.11026 - 0.02097I	2.75270 - 0.12135I	4.31662 + 2.02203I
b = 0.015738 - 0.400573I		
u = 0.533566 - 0.191258I		
a = 2.11026 + 0.02097I	2.75270 + 0.12135I	4.31662 - 2.02203I
b = 0.015738 + 0.400573I		
u = -1.37591 + 0.55145I		
a = -1.85420 - 0.20688I	5.73608 - 12.12140I	0
b = -0.46756 + 2.62832I		
u = -1.37591 - 0.55145I		
a = -1.85420 + 0.20688I	5.73608 + 12.12140I	0
b = -0.46756 - 2.62832I		
u = -1.37982 + 0.60344I		
a = 1.81821 + 0.36696I	3.1034 - 17.9006I	0
b = 0.65074 - 2.69787I		
u = -1.37982 - 0.60344I		
a = 1.81821 - 0.36696I	3.1034 + 17.9006I	0
b = 0.65074 + 2.69787I		
u = -0.133149 + 0.453460I		
a = -0.79716 + 2.36462I	-0.73011 + 6.65250I	-2.66432 - 3.51460I
b = 0.538862 - 0.115588I		
u = -0.133149 - 0.453460I		
a = -0.79716 - 2.36462I	-0.73011 - 6.65250I	-2.66432 + 3.51460I
b = 0.538862 + 0.115588I		
u = 1.41107 + 0.70362I		
a = 1.64088 - 0.08554I	5.99281 + 3.52843I	0
b = 0.22225 + 3.33896I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.41107 - 0.70362I		
a = 1.64088 + 0.08554I	5.99281 - 3.52843I	0
b = 0.22225 - 3.33896I		
u = 1.36356 + 0.82563I		
a = -1.50074 + 0.27918I	4.05037 + 8.85752I	0
b = -0.07330 - 3.39650I		
u = 1.36356 - 0.82563I		
a = -1.50074 - 0.27918I	4.05037 - 8.85752I	0
b = -0.07330 + 3.39650I		
u = 1.58214 + 0.40524I		
a = 1.51705 + 0.56885I	6.53306 + 0.44104I	0
b = 0.64537 + 3.02218I		
u = 1.58214 - 0.40524I		
a = 1.51705 - 0.56885I	6.53306 - 0.44104I	0
b = 0.64537 - 3.02218I		
u = 0.049986 + 0.360419I		
a = 1.69770 + 1.17273I	-0.95967 + 1.37657I	-3.31883 - 4.67522I
b = -0.038801 - 0.987614I		
u = 0.049986 - 0.360419I		
a = 1.69770 - 1.17273I	-0.95967 - 1.37657I	-3.31883 + 4.67522I
b = -0.038801 + 0.987614I		
u = 1.66970 + 0.27894I		
a = -1.30329 - 0.71487I	5.01931 - 4.78307I	0
b = -0.93162 - 2.84030I		
u = 1.66970 - 0.27894I		
a = -1.30329 + 0.71487I	5.01931 + 4.78307I	0
b = -0.93162 + 2.84030I		
u = 0.013745 + 0.300945I		
a = 1.91747 - 2.87096I	1.66501 + 1.71486I	1.361742 - 0.047755I
b = -0.416432 - 0.110948I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.013745 - 0.300945I		
a = 1.91747 + 2.87096I	1.66501 - 1.71486I	1.361742 + 0.047755I
b = -0.416432 + 0.110948I		
u = -0.234317		
a = 1.53674	-2.49567	-2.13160
b = 1.46885		
u = -0.122932 + 0.103046I		
a = 5.15612 - 0.93081I	-2.25525 + 1.15492I	-4.97585 - 0.17312I
b = 0.615821 - 0.504298I		
u = -0.122932 - 0.103046I		
a = 5.15612 + 0.93081I	-2.25525 - 1.15492I	-4.97585 + 0.17312I
b = 0.615821 + 0.504298I		

$$II. \\ I_2^u = \langle u^3 + u^2 + b - 1, \; -u^5 - u^4 + u^2 + a + u + 1, \; u^6 + u^5 - u^4 - 2u^3 + u + 1 \rangle$$

(i) Arc colorings

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

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

$$a_{10} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} u^{5} + u^{4} - u^{2} - u - 1 \\ -u^{3} - u^{2} + 1 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} u^{5} + u^{4} - u^{2} - u - 1 \\ -u^{3} - u^{2} + 1 \end{pmatrix}$$

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

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

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

$$a_{2} = \begin{pmatrix} u^{5} + u^{4} + u^{3} - u^{2} - u - 1 \\ -u^{2} - u + 1 \end{pmatrix}$$

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

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

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $3u^5 u^4 + u^3 + 2u^2 + 3u 5$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u-1)^6$
c_2, c_4	$(u+1)^6$
c_{3}, c_{6}	u^6
c_{5}, c_{8}	$u^6 - 3u^5 + 5u^4 - 4u^3 + 2u^2 - u + 1$
c_7, c_9, c_{11}	$u^6 - u^5 - u^4 + 2u^3 - u + 1$
c_{10}	$u^6 + u^5 - u^4 - 2u^3 + u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4	$(y-1)^6$
c_3, c_6	y^6
c_5, c_8	$y^6 + y^5 + 5y^4 + 6y^2 + 3y + 1$
c_7, c_9, c_{10} c_{11}	$y^6 - 3y^5 + 5y^4 - 4y^3 + 2y^2 - y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.002190 + 0.295542I		
a = -2.25915 + 1.43225I	0.245672 + 0.924305I	0.60470 + 5.55069I
b = -0.66103 - 1.45708I		
u = 1.002190 - 0.295542I		
a = -2.25915 - 1.43225I	0.245672 - 0.924305I	0.60470 - 5.55069I
b = -0.66103 + 1.45708I		
u = -0.428243 + 0.664531I		
a = -0.655968 - 0.098281I	-3.53554 + 0.92430I	-6.31051 - 0.25702I
b = 0.769407 + 0.497010I		
u = -0.428243 - 0.664531I		
a = -0.655968 + 0.098281I	-3.53554 - 0.92430I	-6.31051 + 0.25702I
b = 0.769407 - 0.497010I		
u = -1.073950 + 0.558752I		
a = 0.415113 + 0.381252I	-1.64493 - 5.69302I	-0.29418 + 8.33058I
b = 0.391622 - 0.558752I		
u = -1.073950 - 0.558752I		
a = 0.415113 - 0.381252I	-1.64493 + 5.69302I	-0.29418 - 8.33058I
b = 0.391622 + 0.558752I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^6)(u^{84} - 7u^{83} + \dots - 3u + 1)$
c_2	$((u+1)^6)(u^{84}+41u^{83}+\cdots-157u+1)$
c_3, c_6	$u^6(u^{84} - u^{83} + \dots - 320u + 64)$
C ₄	$((u+1)^6)(u^{84} - 7u^{83} + \dots - 3u + 1)$
<i>C</i> 5	$ (u^6 - 3u^5 + 5u^4 - 4u^3 + 2u^2 - u + 1)(u^{84} - 6u^{83} + \dots - 2u + 1) $
<i>c</i> ₇	$ (u^6 - u^5 - u^4 + 2u^3 - u + 1)(u^{84} + 2u^{83} + \dots + 14u + 1) $
c ₈	$ (u^6 - 3u^5 + 5u^4 - 4u^3 + 2u^2 - u + 1)(u^{84} + 6u^{83} + \dots - 1166u - 101) $
<i>c</i> ₉	$ (u^6 - u^5 - u^4 + 2u^3 - u + 1)(u^{84} + 2u^{83} + \dots - 418u + 367) $
c_{10}	$(u^6 + u^5 - u^4 - 2u^3 + u + 1)(u^{84} + 2u^{83} + \dots + 14u + 1)$
c_{11}	$ (u6 - u5 - u4 + 2u3 - u + 1)(u84 - 14u83 + \dots - 2u + 1) $

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$((y-1)^6)(y^{84}-41y^{83}+\cdots+157y+1)$
c_2	$((y-1)^6)(y^{84}+11y^{83}+\cdots-14895y+1)$
c_3, c_6	$y^6(y^{84} - 39y^{83} + \dots - 61440y + 4096)$
<i>C</i> 5	$(y^6 + y^5 + 5y^4 + 6y^2 + 3y + 1)(y^{84} + 14y^{83} + \dots + 6y + 1)$
c_7, c_{10}	$(y^6 - 3y^5 + 5y^4 - 4y^3 + 2y^2 - y + 1)(y^{84} - 54y^{83} + \dots - 14y + 1)$
<i>c</i> ₈	$(y^6 + y^5 + 5y^4 + 6y^2 + 3y + 1)(y^{84} - 82y^{83} + \dots - 878594y + 10201)$
<i>c</i> ₉	$(y^6 - 3y^5 + 5y^4 - 4y^3 + 2y^2 - y + 1)$ $\cdot (y^{84} - 66y^{83} + \dots + 5678926y + 134689)$
c_{11}	$(y^6 - 3y^5 + 5y^4 - 4y^3 + 2y^2 - y + 1)(y^{84} - 6y^{83} + \dots - 14y + 1)$