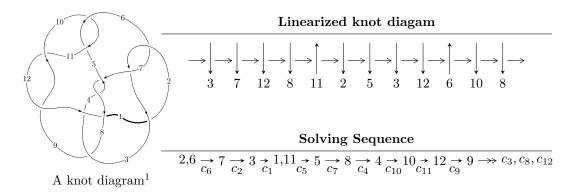
$12n_{0557} \ (K12n_{0557})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -1.02105 \times 10^{101} u^{67} - 4.63803 \times 10^{101} u^{66} + \dots + 1.96878 \times 10^{102} b - 8.88022 \times 10^{101},$$

$$1.26302 \times 10^{102} u^{67} + 8.85176 \times 10^{101} u^{66} + \dots + 1.96878 \times 10^{102} a + 1.15700 \times 10^{102}, \ u^{68} + u^{67} + \dots + u - I_2^u = \langle -5u^{19} + 33u^{17} + \dots + b + 11u, \ -11u^{18} - 2u^{17} + \dots + a + 29, \ u^{20} - 7u^{18} + \dots + u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 88 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.
$$I_1^u = \langle -1.02 \times 10^{101} u^{67} - 4.64 \times 10^{101} u^{66} + \dots + 1.97 \times 10^{102} b - 8.88 \times 10^{101}, \ 1.26 \times 10^{102} u^{67} + 8.85 \times 10^{101} u^{66} + \dots + 1.97 \times 10^{102} a + 1.16 \times 10^{102}, \ u^{68} + u^{67} + \dots + u - 1 \rangle$$

(i) Arc colorings

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

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{1} = \begin{pmatrix} 0.0518621u^{67} - 0.449607u^{66} + \dots + 0.395110u - 0.587676 \\ 0.0518621u^{67} + 0.235579u^{66} + \dots - 1.81551u + 0.451053 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.4458253u^{67} - 0.528500u^{66} + \dots + 2.40287u - 0.615703 \\ 0.243980u^{67} + 0.462555u^{66} + \dots - 2.28263u - 0.185736 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.141644u^{67} - 0.134104u^{66} + \dots + 1.04997u + 2.16525 \\ -0.308718u^{67} - 0.377649u^{66} + \dots + 1.18451u - 1.47282 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.736347u^{67} + 0.739432u^{66} + \dots + 0.595559u - 0.749166 \\ -0.210641u^{67} - 0.118772u^{66} + \dots + 0.845338u + 0.371913 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.693385u^{67} - 0.685186u^{66} + \dots + 2.21062u - 1.03873 \\ 0.0518621u^{67} + 0.235579u^{66} + \dots - 1.81551u + 0.451053 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.704846u^{67} - 1.06386u^{66} + \dots + 4.02275u - 0.154197 \\ 0.263760u^{67} + 0.386209u^{66} + \dots - 1.73388u - 0.866876 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.147546u^{67} - 0.0835648u^{66} + \dots - 1.04362u + 2.37990 \\ -0.325349u^{67} - 0.435020u^{66} + \dots + 1.13942u - 1.64284 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.626539u^{67} 1.34740u^{66} + \cdots + 9.36366u 10.4358$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{68} + 37u^{67} + \dots - u + 1$
c_2, c_6	$u^{68} - u^{67} + \dots - u - 1$
c_3	$u^{68} - 3u^{67} + \dots - 5590u - 1393$
c_4, c_7	$u^{68} - 2u^{67} + \dots + 682u + 107$
c_5,c_{10}	$u^{68} + u^{67} + \dots - 5u + 1$
<i>C</i> ₈	$u^{68} + u^{67} + \dots - 2029u - 1341$
c_9,c_{11}	$u^{68} + 25u^{67} + \dots - 57u + 1$
c_{12}	$u^{68} - 3u^{67} + \dots + 2287u + 121$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{68} + 3y^{67} + \dots + 105y + 1$
c_2, c_6	$y^{68} - 37y^{67} + \dots + y + 1$
c_3	$y^{68} - 69y^{67} + \dots - 13063878y + 1940449$
c_4, c_7	$y^{68} + 28y^{67} + \dots - 23856y + 11449$
c_5,c_{10}	$y^{68} + 25y^{67} + \dots - 57y + 1$
c_8	$y^{68} - 67y^{67} + \dots + 17462531y + 1798281$
c_9,c_{11}	$y^{68} + 45y^{67} + \dots - 977y + 1$
c_{12}	$y^{68} - 75y^{67} + \dots - 4777829y + 14641$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.940907 + 0.259610I		
a = 0.42197 - 2.48976I	-0.93999 - 1.07351I	-13.16109 - 0.94732I
b = -0.159587 - 1.033910I		
u = 0.940907 - 0.259610I		
a = 0.42197 + 2.48976I	-0.93999 + 1.07351I	-13.16109 + 0.94732I
b = -0.159587 + 1.033910I		
u = -1.043650 + 0.145685I		
a = -0.39955 + 2.55386I	-3.76897 + 2.72988I	-8.00000 - 5.48520I
b = 0.275203 + 0.962008I		
u = -1.043650 - 0.145685I		
a = -0.39955 - 2.55386I	-3.76897 - 2.72988I	-8.00000 + 5.48520I
b = 0.275203 - 0.962008I		
u = 0.885464 + 0.597578I		
a = 0.75942 + 1.75588I	-1.11071 - 2.33001I	0
b = 0.093114 + 0.992704I		
u = 0.885464 - 0.597578I		
a = 0.75942 - 1.75588I	-1.11071 + 2.33001I	0
b = 0.093114 - 0.992704I		
u = -1.004080 + 0.415754I		
a = 0.232891 - 0.695090I	-4.35054 + 1.56377I	0
b = -0.812580 + 0.667456I		
u = -1.004080 - 0.415754I		
a = 0.232891 + 0.695090I	-4.35054 - 1.56377I	0
b = -0.812580 - 0.667456I		
u = -0.876146 + 0.645556I		
a = 0.163390 + 0.383509I	2.13037 + 2.54033I	0
b = -0.159247 - 0.049954I		
u = -0.876146 - 0.645556I		
a = 0.163390 - 0.383509I	2.13037 - 2.54033I	0
b = -0.159247 + 0.049954I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.399517 + 1.015870I		
a = 0.654911 + 0.379579I	0.65883 + 3.48006I	0
b = -0.849945 + 0.659975I		
u = 0.399517 - 1.015870I		
a = 0.654911 - 0.379579I	0.65883 - 3.48006I	0
b = -0.849945 - 0.659975I		
u = -1.037540 + 0.398544I		
a = -0.14880 + 1.55501I	-6.36651 - 0.81288I	0
b = -0.576579 + 1.193350I		
u = -1.037540 - 0.398544I		
a = -0.14880 - 1.55501I	-6.36651 + 0.81288I	0
b = -0.576579 - 1.193350I		
u = 0.716409 + 0.891799I		
a = 0.500992 - 0.440317I	3.29939 + 2.00709I	0
b = -0.674233 - 0.922387I		
u = 0.716409 - 0.891799I		
a = 0.500992 + 0.440317I	3.29939 - 2.00709I	0
b = -0.674233 + 0.922387I		
u = -0.342929 + 1.097870I		
a = 0.556771 + 0.538161I	-0.50810 - 9.35376I	0
b = -0.723860 + 1.040460I		
u = -0.342929 - 1.097870I		
a = 0.556771 - 0.538161I	-0.50810 + 9.35376I	0
b = -0.723860 - 1.040460I		
u = -0.098391 + 0.835496I		
a = 0.643296 - 0.760427I	-6.10032 - 3.11040I	-10.83046 + 2.94729I
b = 0.141512 - 1.090530I		
u = -0.098391 - 0.835496I		
a = 0.643296 + 0.760427I	-6.10032 + 3.11040I	-10.83046 - 2.94729I
b = 0.141512 + 1.090530I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.046410 + 0.508419I		
a = -0.132346 + 0.527696I	-3.60038 - 4.71726I	0
b = -0.940830 + 0.317450I		
u = 1.046410 - 0.508419I		
a = -0.132346 - 0.527696I	-3.60038 + 4.71726I	0
b = -0.940830 - 0.317450I		
u = -0.768060 + 0.318425I		
a = -2.70476 + 2.59441I	-3.34454 + 1.57597I	-9.61436 - 5.33785I
b = 0.549168 + 0.792945I		
u = -0.768060 - 0.318425I		
a = -2.70476 - 2.59441I	-3.34454 - 1.57597I	-9.61436 + 5.33785I
b = 0.549168 - 0.792945I		
u = 1.047410 + 0.527364I		
a = 1.61700 + 1.10646I	-5.45556 - 7.28309I	0
b = -0.706839 + 1.027240I		
u = 1.047410 - 0.527364I		
a = 1.61700 - 1.10646I	-5.45556 + 7.28309I	0
b = -0.706839 - 1.027240I		
u = 1.083690 + 0.530024I		
a = -0.553710 - 0.091586I	3.49437 - 0.97425I	0
b = -0.851770 - 0.802509I		
u = 1.083690 - 0.530024I		
a = -0.553710 + 0.091586I	3.49437 + 0.97425I	0
b = -0.851770 + 0.802509I		
u = -0.934372 + 0.781624I		
a = 0.053522 + 0.417489I	3.42338 + 2.92327I	0
b = 0.680894 - 0.644957I		
u = -0.934372 - 0.781624I		
a = 0.053522 - 0.417489I	3.42338 - 2.92327I	0
b = 0.680894 + 0.644957I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.841651 + 0.883672I		
a = 0.868517 - 0.485589I	3.75199 + 3.22331I	0
b = -0.677512 - 0.774206I		
u = -0.841651 - 0.883672I		
a = 0.868517 + 0.485589I	3.75199 - 3.22331I	0
b = -0.677512 + 0.774206I		
u = 0.548357 + 0.532260I		
a = -0.28832 - 1.56425I	-3.88368 + 2.91929I	-8.58150 - 1.60014I
b = 0.576815 + 0.947312I		
u = 0.548357 - 0.532260I		
a = -0.28832 + 1.56425I	-3.88368 - 2.91929I	-8.58150 + 1.60014I
b = 0.576815 - 0.947312I		
u = -1.24899		
a = -1.01889	-6.77611	0
b = 0.341297		
u = 0.750601		
a = 0.454925	-1.11068	-8.83830
b = 0.481221		
u = -1.157710 + 0.488774I		
a = 0.89610 - 1.78056I	2.95487 + 7.09497I	0
b = -0.790649 - 0.975806I		
u = -1.157710 - 0.488774I		
a = 0.89610 + 1.78056I	2.95487 - 7.09497I	0
b = -0.790649 + 0.975806I		
u = 1.019200 + 0.755143I		
a = -1.43617 - 1.55373I	2.34696 - 8.08537I	0
b = 0.644876 - 1.003110I		
u = 1.019200 - 0.755143I		
a = -1.43617 + 1.55373I	2.34696 + 8.08537I	0
b = 0.644876 + 1.003110I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.137780 + 0.597361I		
a = -0.680702 + 0.371018I	2.91478 + 2.04568I	0
b = -0.611829 + 0.671402I		
u = -1.137780 - 0.597361I		
a = -0.680702 - 0.371018I	2.91478 - 2.04568I	0
b = -0.611829 - 0.671402I		
u = 1.210900 + 0.474728I		
a = 0.58877 + 2.13386I	1.92170 - 6.94863I	0
b = -0.619959 + 0.991046I		
u = 1.210900 - 0.474728I		
a = 0.58877 - 2.13386I	1.92170 + 6.94863I	0
b = -0.619959 - 0.991046I		
u = -1.188350 + 0.530219I		
a = 0.57443 - 1.99425I	-9.23070 + 8.01469I	0
b = -0.133485 - 1.246610I		
u = -1.188350 - 0.530219I		
a = 0.57443 + 1.99425I	-9.23070 - 8.01469I	0
b = -0.133485 + 1.246610I		
u = 0.444105 + 0.517971I		
a = 0.608976 - 0.934274I	-1.85955 + 0.48121I	-4.42539 + 0.48875I
b = 0.732751 + 0.181612I		
u = 0.444105 - 0.517971I		
a = 0.608976 + 0.934274I	-1.85955 - 0.48121I	-4.42539 - 0.48875I
b = 0.732751 - 0.181612I		
u = -0.172980 + 0.644207I		
a = -0.086216 + 0.618638I	5.46513 + 2.81095I	-4.67462 - 2.60873I
b = 0.742213 + 0.849423I		
u = -0.172980 - 0.644207I		
a = -0.086216 - 0.618638I	5.46513 - 2.81095I	-4.67462 + 2.60873I
b = 0.742213 - 0.849423I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.312170 + 0.378943I		
a = -0.96232 - 1.62440I	-10.44160 - 1.32359I	0
b = 0.069729 - 1.052040I		
u = 1.312170 - 0.378943I		
a = -0.96232 + 1.62440I	-10.44160 + 1.32359I	0
b = 0.069729 + 1.052040I		
u = -0.587051 + 0.229586I		
a = -0.76768 + 3.66509I	-4.71625 + 3.83876I	-6.01425 - 8.08352I
b = 0.455736 + 1.134590I		
u = -0.587051 - 0.229586I		
a = -0.76768 - 3.66509I	-4.71625 - 3.83876I	-6.01425 + 8.08352I
b = 0.455736 - 1.134590I		
u = 1.192260 + 0.675113I		
a = 0.403435 - 0.199397I	-1.79071 - 9.57598I	0
b = 0.934236 + 0.605763I		
u = 1.192260 - 0.675113I		
a = 0.403435 + 0.199397I	-1.79071 + 9.57598I	0
b = 0.934236 - 0.605763I		
u = -1.24627 + 0.68565I		
a = -1.04436 + 1.71892I	-3.3132 + 15.7131I	0
b = 0.735262 + 1.096550I		
u = -1.24627 - 0.68565I		
a = -1.04436 - 1.71892I	-3.3132 - 15.7131I	0
b = 0.735262 - 1.096550I		
u = -1.49863 + 0.14703I		
a = -0.238266 + 1.256530I	-6.04640 + 0.52618I	0
b = 0.643640 + 0.677255I		
u = -1.49863 - 0.14703I		
a = -0.238266 - 1.256530I	-6.04640 - 0.52618I	0
b = 0.643640 - 0.677255I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.52986 + 0.24219I		
a = 0.175494 + 1.248290I	-7.00901 + 4.52551I	0
b = 0.639173 + 0.989620I		
u = 1.52986 - 0.24219I		
a = 0.175494 - 1.248290I	-7.00901 - 4.52551I	0
b = 0.639173 - 0.989620I		
u = 0.337839 + 0.292985I		
a = -1.63156 - 0.79539I	5.70133 - 3.16227I	-8.17605 + 1.97963I
b = 0.841620 - 0.916425I		
u = 0.337839 - 0.292985I		
a = -1.63156 + 0.79539I	5.70133 + 3.16227I	-8.17605 - 1.97963I
b = 0.841620 + 0.916425I		
u = 0.147872 + 0.344296I		
a = 0.999072 + 0.433594I	-0.427609 - 1.011650I	-6.71477 + 6.54763I
b = -0.214633 + 0.698481I		
u = 0.147872 - 0.344296I		
a = 0.999072 - 0.433594I	-0.427609 + 1.011650I	-6.71477 - 6.54763I
b = -0.214633 - 0.698481I		
u = -0.177594 + 0.322240I		
a = -0.862215 + 0.770131I	5.73139 - 3.08529I	-6.85812 + 5.06126I
b = 0.836335 - 0.904083I		
u = -0.177594 - 0.322240I		
a = -0.862215 - 0.770131I	5.73139 + 3.08529I	-6.85812 - 5.06126I
b = 0.836335 + 0.904083I		

II.
$$I_2^u = \langle -5u^{19} + 33u^{17} + \dots + b + 11u, -11u^{18} - 2u^{17} + \dots + a + 29, u^{20} - 7u^{18} + \dots + u + 1 \rangle$$

(i) Arc colorings

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

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{1} = \begin{pmatrix} 11u^{18} + 2u^{17} + \dots - 16u - 29 \\ 5u^{19} - 33u^{17} + \dots - 11u^{2} - 11u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -3u^{19} + 18u^{17} + \dots - 3u + 1 \\ -4u^{19} + 26u^{17} + \dots + 9u - 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u^{19} + 7u^{17} + \dots + 2u - 6 \\ u^{19} - 2u^{18} + \dots - 32u^{2} + 6 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 3u^{19} - u^{18} + \dots - 20u + 8 \\ -8u^{19} + u^{18} + \dots + 14u - 6 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -5u^{19} + 11u^{18} + \dots - 5u - 29 \\ 5u^{19} - 33u^{17} + \dots - 11u^{2} - 11u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -5u^{19} + 11u^{18} + \dots + 17u - 7 \\ 5u^{19} - u^{18} + \dots - 6u + 5 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{19} + u^{18} + \dots + u - 7 \\ u^{19} - 2u^{18} + \dots - 33u^{2} + 6 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= -2u^{19} + 4u^{18} + 12u^{17} - 29u^{16} - 32u^{15} + 101u^{14} + 46u^{13} - 224u^{12} - 25u^{11} + 343u^{10} - 29u^9 - 382u^8 + 73u^7 + 319u^6 - 76u^5 - 197u^4 + 45u^3 + 92u^2 - 18u - 33$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20} - 14u^{19} + \dots - 15u + 1$
c_2	$u^{20} - 7u^{18} + \dots - u + 1$
c_3	$u^{20} + 6u^{19} + \dots + 6u + 1$
c_4	$u^{20} - u^{19} + \dots - 4u^2 + 1$
c_5	$u^{20} + 4u^{18} + \dots + u + 1$
c_6	$u^{20} - 7u^{18} + \dots + u + 1$
c_7	$u^{20} + u^{19} + \dots - 4u^2 + 1$
c ₈	$u^{20} - 4u^{18} + \dots - u + 1$
c_9	$u^{20} - 8u^{19} + \dots - 11u + 1$
c_{10}	$u^{20} + 4u^{18} + \dots - u + 1$
c_{11}	$u^{20} + 8u^{19} + \dots + 11u + 1$
c_{12}	$u^{20} + 4u^{19} + \dots + 3u + 1$
•	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{20} - 2y^{19} + \dots - 15y + 1$
c_2, c_6	$y^{20} - 14y^{19} + \dots - 15y + 1$
<i>c</i> ₃	$y^{20} - 14y^{19} + \dots + 6y + 1$
c_4, c_7	$y^{20} + 11y^{19} + \dots - 8y + 1$
c_5, c_{10}	$y^{20} + 8y^{19} + \dots + 11y + 1$
<i>c</i> ₈	$y^{20} - 8y^{19} + \dots + 11y + 1$
c_9, c_{11}	$y^{20} + 16y^{19} + \dots - y + 1$
c_{12}	$y^{20} - 12y^{19} + \dots + 63y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.916596 + 0.501656I		
a = -0.23575 + 2.17377I	-0.08561 + 2.00156I	-7.02876 - 3.01759I
b = -0.084408 + 0.989106I		
u = -0.916596 - 0.501656I		
a = -0.23575 - 2.17377I	-0.08561 - 2.00156I	-7.02876 + 3.01759I
b = -0.084408 - 0.989106I		
u = 0.619099 + 0.623336I		
a = -0.745100 - 0.435517I	6.36763 - 3.79706I	-1.32350 + 7.18577I
b = 0.837623 - 0.852995I		
u = 0.619099 - 0.623336I		
a = -0.745100 + 0.435517I	6.36763 + 3.79706I	-1.32350 - 7.18577I
b = 0.837623 + 0.852995I		
u = 0.893965 + 0.712196I		
a = 0.533393 + 0.189780I	1.54640 - 2.72061I	-12.89369 + 5.24622I
b = -0.077110 + 0.595222I		
u = 0.893965 - 0.712196I		
a = 0.533393 - 0.189780I	1.54640 + 2.72061I	-12.89369 - 5.24622I
b = -0.077110 - 0.595222I		
u = -0.592080 + 0.540578I		
a = -0.450432 - 0.379257I	6.07415 - 2.37360I	-2.82617 - 3.06916I
b = 0.815442 - 0.949836I		
u = -0.592080 - 0.540578I		
a = -0.450432 + 0.379257I	6.07415 + 2.37360I	-2.82617 + 3.06916I
b = 0.815442 + 0.949836I		
u = -1.139700 + 0.603954I		
a = 0.97885 - 1.81385I	4.22590 + 7.07154I	-3.35111 - 5.96009I
b = -0.733487 - 0.971689I		
u = -1.139700 - 0.603954I		
a = 0.97885 + 1.81385I	4.22590 - 7.07154I	-3.35111 + 5.96009I
b = -0.733487 + 0.971689I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.104760 + 0.669023I		
a = -0.476179 - 0.045276I	4.80560 - 1.34863I	-2.53819 + 0.59167I
b = -0.774786 - 0.785443I		
u = 1.104760 - 0.669023I		
a = -0.476179 + 0.045276I	4.80560 + 1.34863I	-2.53819 - 0.59167I
b = -0.774786 + 0.785443I		
u = 1.303610 + 0.049480I		
a = 0.089962 + 1.123820I	-7.77106 + 3.02337I	-12.40469 - 2.49345I
b = 0.496270 + 1.018040I		
u = 1.303610 - 0.049480I		
a = 0.089962 - 1.123820I	-7.77106 - 3.02337I	-12.40469 + 2.49345I
b = 0.496270 - 1.018040I		
u = 0.678501 + 0.066867I		
a = 0.90337 + 4.20276I	-5.21524 - 3.52525I	-18.2464 + 1.7590I
b = -0.482156 + 1.088980I		
u = 0.678501 - 0.066867I		
a = 0.90337 - 4.20276I	-5.21524 + 3.52525I	-18.2464 - 1.7590I
b = -0.482156 - 1.088980I		
u = -1.368110 + 0.049620I		
a = -0.68949 + 1.67187I	-6.60360 + 1.07496I	-13.9720 - 6.3109I
b = 0.501119 + 0.678815I		
u = -1.368110 - 0.049620I		
a = -0.68949 - 1.67187I	-6.60360 - 1.07496I	-13.9720 + 6.3109I
b = 0.501119 - 0.678815I		
u = -0.583436 + 0.055335I		
a = -2.40862 - 1.94316I	-3.34415 - 0.58323I	-10.41549 - 1.69535I
b = -0.498506 + 0.538267I		
u = -0.583436 - 0.055335I		
a = -2.40862 + 1.94316I	-3.34415 + 0.58323I	-10.41549 + 1.69535I
b = -0.498506 - 0.538267I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{20} - 14u^{19} + \dots - 15u + 1)(u^{68} + 37u^{67} + \dots - u + 1) $
c_2	$(u^{20} - 7u^{18} + \dots - u + 1)(u^{68} - u^{67} + \dots - u - 1)$
c_3	$(u^{20} + 6u^{19} + \dots + 6u + 1)(u^{68} - 3u^{67} + \dots - 5590u - 1393)$
c_4	$ (u^{20} - u^{19} + \dots - 4u^2 + 1)(u^{68} - 2u^{67} + \dots + 682u + 107) $
<i>C</i> ₅	$(u^{20} + 4u^{18} + \dots + u + 1)(u^{68} + u^{67} + \dots - 5u + 1)$
c_6	$(u^{20} - 7u^{18} + \dots + u + 1)(u^{68} - u^{67} + \dots - u - 1)$
C ₇	$(u^{20} + u^{19} + \dots - 4u^2 + 1)(u^{68} - 2u^{67} + \dots + 682u + 107)$
c ₈	$(u^{20} - 4u^{18} + \dots - u + 1)(u^{68} + u^{67} + \dots - 2029u - 1341)$
<i>c</i> ₉	$(u^{20} - 8u^{19} + \dots - 11u + 1)(u^{68} + 25u^{67} + \dots - 57u + 1)$
c_{10}	$(u^{20} + 4u^{18} + \dots - u + 1)(u^{68} + u^{67} + \dots - 5u + 1)$
c_{11}	$(u^{20} + 8u^{19} + \dots + 11u + 1)(u^{68} + 25u^{67} + \dots - 57u + 1)$
c_{12}	$(u^{20} + 4u^{19} + \dots + 3u + 1)(u^{68} - 3u^{67} + \dots + 2287u + 121)$ 19

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1	$y^{20} - 2y^{19} + \dots - 15y + 1)(y^{68} + 3y^{67} + \dots + 105y + 1)$	
c_2, c_6	$(y^{20} - 14y^{19} + \dots - 15y + 1)(y^{68} - 37y^{67} + \dots + y + 1)$	
c_3	$(y^{20} - 14y^{19} + \dots + 6y + 1)$ $\cdot (y^{68} - 69y^{67} + \dots - 13063878y + 1940449)$	
c_4, c_7	$(y^{20} + 11y^{19} + \dots - 8y + 1)(y^{68} + 28y^{67} + \dots - 23856y + 11449)$	
c_5, c_{10}	$(y^{20} + 8y^{19} + \dots + 11y + 1)(y^{68} + 25y^{67} + \dots - 57y + 1)$	
c ₈	$(y^{20} - 8y^{19} + \dots + 11y + 1)$ $\cdot (y^{68} - 67y^{67} + \dots + 17462531y + 1798281)$	
c_9,c_{11}	$(y^{20} + 16y^{19} + \dots - y + 1)(y^{68} + 45y^{67} + \dots - 977y + 1)$	
c_{12}	$(y^{20} - 12y^{19} + \dots + 63y + 1)(y^{68} - 75y^{67} + \dots - 4777829y + 14641)$	