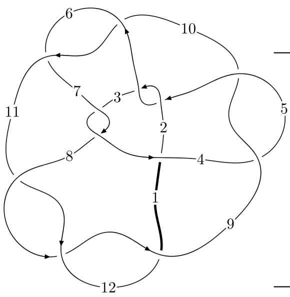
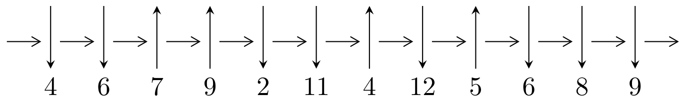
$12n_{0748}$ ($K12n_{0748}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$4{,}9 \underset{c_4}{\to} 2{,}5 \underset{c_5}{\to} 6 \underset{c_9}{\to} 10 \underset{c_1}{\to} 1 \underset{c_{12}}{\to} 12 \underset{c_8}{\to} 8 \underset{c_7}{\longrightarrow} 7 \underset{c_3}{\longrightarrow} 3 \underset{c_{11}}{\to} 11 \twoheadrightarrow c_2, c_6, c_{10}$$

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

$$\begin{aligned}
I_1^u = \langle & 5.55332 \times 10^{75} u^{50} + 2.14999 \times 10^{75} u^{49} + \cdots + 1.63199 \times 10^{76} b - 9.50449 \times 10^{76}, \\
& -1.00920 \times 10^{77} u^{50} - 6.14195 \times 10^{76} u^{49} + \cdots + 4.89597 \times 10^{76} a + 2.60239 \times 10^{78},\ u^{51} + u^{50} + \cdots + 9u - \\
I_2^u = \langle & u^{11} + 3u^{10} - 6u^9 - 5u^8 + 19u^7 - 14u^6 - 34u^5 + 34u^4 + 25u^3 - 24u^2 + 5b + u + 8, \\
& -19u^{11} + 3u^{10} + 89u^9 - 75u^8 - 136u^7 + 321u^6 + 41u^5 - 531u^4 + 80u^3 + 341u^2 + 5a - 64u - 47, \\
& u^{12} - 5u^{10} + 3u^9 + 9u^8 - 16u^7 - 7u^6 + 31u^5 + 3u^4 - 24u^3 - 2u^2 + 5u + 1\rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 63 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.

$\boldsymbol{I_1^u = \langle 5.55\times10^{75}u^{50}+2.15\times10^{75}u^{49}+\cdots+1.63\times10^{76}b-9.50\times10^{76},\ -1.01\times10^{77}u^{50}-6.14\times10^{76}u^{49}+\cdots+4.90\times10^{76}a+2.60\times10^{78},\ u^{51}+u^{50}+\cdots+9u-9\rangle}$

(i) Arc colorings

$$a_4 = \begin{pmatrix}1\\0\end{pmatrix}$$

$$a_9 = \begin{pmatrix}0\\u\end{pmatrix}$$

$$a_2 = \begin{pmatrix}2.06129u^{50}+1.25449u^{49}+\cdots+156.424u-53.1538\\-0.340279u^{50}-0.131740u^{49}+\cdots-5.95216u+5.82387\end{pmatrix}$$

$$a_5 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$

$$a_6 = \begin{pmatrix}-3.63256u^{50}-2.37017u^{49}+\cdots-340.652u+80.1409\\-0.228512u^{50}-0.176770u^{49}+\cdots-38.9007u+9.50612\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}u\\-u^3+u\end{pmatrix}$$

$$a_1 = \begin{pmatrix}1.72101u^{50}+1.12275u^{49}+\cdots+150.472u-47.3299\\-0.340279u^{50}-0.131740u^{49}+\cdots-5.95216u+5.82387\end{pmatrix}$$

$$a_{12} = \begin{pmatrix}1.72101u^{50}+1.12275u^{49}+\cdots+150.472u-47.3299\\-0.570525u^{50}-0.285333u^{49}+\cdots-26.8255u+11.2082\end{pmatrix}$$

$$a_8 = \begin{pmatrix}3.13695u^{50}+1.91795u^{49}+\cdots+298.052u-76.5104\\0.639941u^{50}+0.374469u^{49}+\cdots+59.0371u-16.4493\end{pmatrix}$$

$$a_7 = \begin{pmatrix}2.49701u^{50}+1.54348u^{49}+\cdots+239.015u-60.0611\\0.639941u^{50}+0.374469u^{49}+\cdots+59.0371u-16.4493\end{pmatrix}$$

$$a_3 = \begin{pmatrix}-3.39441u^{50}-1.99256u^{49}+\cdots-330.150u+85.1843\\-1.49048u^{50}-1.03131u^{49}+\cdots-138.506u+38.2645\end{pmatrix}$$

$$a_{11} = \begin{pmatrix}-2.02479u^{50}-1.32882u^{49}+\cdots-189.222u+38.3733\\-1.71640u^{50}-1.07355u^{49}+\cdots-148.388u+42.1932\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 23.5676u^{50}+14.4075u^{49}+\cdots+1956.28u-544.212$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{51} - 2u^{50} + \cdots - 2798u - 211$
c_2, c_5	$u^{51} + 2u^{50} + \cdots - 10u + 1$
c_3, c_7	$u^{51} - 2u^{50} + \cdots - 110u - 11$
c_4, c_9	$u^{51} + u^{50} + \cdots + 9u - 9$
c_6, c_{10}	$u^{51} - 2u^{50} + \cdots - 17u + 1$
c_8, c_{11}, c_{12}	$u^{51} - 18u^{49} + \cdots + 13u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{51} + 70y^{50} + \cdots + 9533684y - 44521$
c_2, c_5	$y^{51} - 10y^{50} + \cdots + 26y - 1$
c_3, c_7	$y^{51} - 40y^{50} + \cdots + 12914y - 121$
c_4, c_9	$y^{51} - 51y^{50} + \cdots + 6489y - 81$
c_6, c_{10}	$y^{51} - 8y^{50} + \cdots + 181y - 1$
c_8, c_{11}, c_{12}	$y^{51} - 36y^{50} + \cdots + 279y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I^u_1	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.966312 + 0.028011I$ $a = -0.536822 - 0.279028I$ $b = 0.882354 - 0.296412I$	$3.13672 - 0.62690I$	0
$u = 0.966312 - 0.028011I$ $a = -0.536822 + 0.279028I$ $b = 0.882354 + 0.296412I$	$3.13672 + 0.62690I$	0
$u = -0.752807 + 0.539036I$ $a = -0.872796 + 0.719742I$ $b = 0.459364 - 0.125960I$	$2.93432 - 5.19831I$	$0. + 6.04454I$
$u = -0.752807 - 0.539036I$ $a = -0.872796 - 0.719742I$ $b = 0.459364 + 0.125960I$	$2.93432 + 5.19831I$	$0. - 6.04454I$
$u = 1.08285$ $a = -0.166192$ $b = -1.36678$	-8.81786	0
$u = -0.237795 + 0.803808I$ $a = 0.997700 + 0.304588I$ $b = -0.237661 + 0.548165I$	$-1.59127 + 1.64954I$	$-10.79264 - 4.97589I$
$u = -0.237795 - 0.803808I$ $a = 0.997700 - 0.304588I$ $b = -0.237661 - 0.548165I$	$-1.59127 - 1.64954I$	$-10.79264 + 4.97589I$
$u = -1.229440 + 0.096772I$ $a = -0.45337 + 1.83496I$ $b = 0.96203 - 1.87253I$	$3.25985 - 4.40630I$	0
$u = -1.229440 - 0.096772I$ $a = -0.45337 - 1.83496I$ $b = 0.96203 + 1.87253I$	$3.25985 + 4.40630I$	0
$u = -1.23712$ $a = 1.45818$ $b = -0.238614$	-3.66174	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.205562 + 0.732617I$ $a = 0.314612 - 0.527449I$ $b = -0.548118 - 0.948146I$	$-3.85278 - 3.00372I$	$-11.66965 + 6.00585I$
$u = -0.205562 - 0.732617I$ $a = 0.314612 + 0.527449I$ $b = -0.548118 + 0.948146I$	$-3.85278 + 3.00372I$	$-11.66965 - 6.00585I$
$u = 0.572928 + 1.104770I$ $a = -0.206310 - 0.298977I$ $b = 0.320739 - 0.725671I$	$-0.44013 + 9.46101I$	0
$u = 0.572928 - 1.104770I$ $a = -0.206310 + 0.298977I$ $b = 0.320739 + 0.725671I$	$-0.44013 - 9.46101I$	0
$u = -1.223810 + 0.312977I$ $a = -0.32338 + 1.52316I$ $b = -0.38353 - 2.16692I$	$1.53528 - 5.83376I$	0
$u = -1.223810 - 0.312977I$ $a = -0.32338 - 1.52316I$ $b = -0.38353 + 2.16692I$	$1.53528 + 5.83376I$	0
$u = 1.304010 + 0.126559I$ $a = -0.351078 - 0.800505I$ $b = 0.73472 + 1.28447I$	$3.37052 + 0.99994I$	0
$u = 1.304010 - 0.126559I$ $a = -0.351078 + 0.800505I$ $b = 0.73472 - 1.28447I$	$3.37052 - 0.99994I$	0
$u = -1.289750 + 0.452317I$ $a = 0.550918 - 0.357255I$ $b = 0.193129 + 0.814567I$	$-1.04630 - 1.13129I$	0
$u = -1.289750 - 0.452317I$ $a = 0.550918 + 0.357255I$ $b = 0.193129 - 0.814567I$	$-1.04630 + 1.13129I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.131606 + 0.597948I$ $a = 0.755619 + 0.012297I$ $b = -0.236259 + 0.347071I$	$-0.317906 + 1.195420I$	$-3.90544 - 5.43225I$
$u = 0.131606 - 0.597948I$ $a = 0.755619 - 0.012297I$ $b = -0.236259 - 0.347071I$	$-0.317906 - 1.195420I$	$-3.90544 + 5.43225I$
$u = 1.385030 + 0.283021I$ $a = 0.04231 - 1.92490I$ $b = -0.77123 + 2.30254I$	$1.21275 + 6.65866I$	0
$u = 1.385030 - 0.283021I$ $a = 0.04231 + 1.92490I$ $b = -0.77123 - 2.30254I$	$1.21275 - 6.65866I$	0
$u = -1.46412 + 0.01784I$ $a = -0.244361 - 1.204180I$ $b = -0.79728 + 1.66527I$	$5.76286 - 1.13846I$	0
$u = -1.46412 - 0.01784I$ $a = -0.244361 + 1.204180I$ $b = -0.79728 - 1.66527I$	$5.76286 + 1.13846I$	0
$u = 0.514876$ $a = 3.02685$ $b = 0.317888$	-10.7307	10.2750
$u = 1.48372 + 0.08688I$ $a = 0.167132 - 1.009410I$ $b = 0.37784 + 1.38305I$	$4.37936 + 0.98278I$	0
$u = 1.48372 - 0.08688I$ $a = 0.167132 + 1.009410I$ $b = 0.37784 - 1.38305I$	$4.37936 - 0.98278I$	0
$u = 1.49336 + 0.11013I$ $a = -0.41151 - 1.40552I$ $b = -0.51248 + 1.86936I$	$7.35814 + 6.04698I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.49336 - 0.11013I$ $a = -0.41151 + 1.40552I$ $b = -0.51248 - 1.86936I$	$7.35814 - 6.04698I$	0
$u = -0.491947$ $a = 1.66651$ $b = -0.0705730$	-1.36137	-6.25410
$u = -0.399561 + 0.244629I$ $a = -2.11272 - 0.74059I$ $b = 0.615884 - 1.246730I$	$1.00696 - 4.56920I$	$-3.90257 + 5.25320I$
$u = -0.399561 - 0.244629I$ $a = -2.11272 + 0.74059I$ $b = 0.615884 + 1.246730I$	$1.00696 + 4.56920I$	$-3.90257 - 5.25320I$
$u = -1.50785 + 0.38384I$ $a = -0.017099 + 1.147920I$ $b = -0.35140 - 1.57334I$	$4.58888 - 5.41893I$	0
$u = -1.50785 - 0.38384I$ $a = -0.017099 - 1.147920I$ $b = -0.35140 + 1.57334I$	$4.58888 + 5.41893I$	0
$u = 1.57518 + 0.19913I$ $a = -0.200647 + 1.350350I$ $b = 0.06483 - 2.13765I$	$10.54910 + 8.09027I$	0
$u = 1.57518 - 0.19913I$ $a = -0.200647 - 1.350350I$ $b = 0.06483 + 2.13765I$	$10.54910 - 8.09027I$	0
$u = -0.407564$ $a = 1.19912$ $b = -1.34717$	-2.57791	9.00240
$u = -1.61819 + 0.08048I$ $a = -0.265175 - 1.291110I$ $b = 0.19764 + 2.01735I$	$11.95830 - 0.22760I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.61819 - 0.08048I$ $a = -0.265175 + 1.291110I$ $b = 0.19764 - 2.01735I$	$11.95830 + 0.22760I$	0
$u = -1.58168 + 0.38198I$ $a = -0.17902 - 1.40951I$ $b = 0.91256 + 2.00149I$	$6.4507 - 14.7902I$	0
$u = -1.58168 - 0.38198I$ $a = -0.17902 + 1.40951I$ $b = 0.91256 - 2.00149I$	$6.4507 + 14.7902I$	0
$u = -0.364492$ $a = -2.15420$ $b = -1.45022$	-6.63015	-21.7480
$u = 1.63613 + 0.31897I$ $a = -0.126349 + 1.180690I$ $b = 0.85837 - 1.71259I$	$7.91149 + 6.61409I$	0
$u = 1.63613 - 0.31897I$ $a = -0.126349 - 1.180690I$ $b = 0.85837 + 1.71259I$	$7.91149 - 6.61409I$	0
$u = 0.169849 + 0.057002I$ $a = -7.63550 - 0.35036I$ $b = 0.860446 - 0.474071I$	$0.100763 + 0.877365I$	$-4.31516 - 3.77329I$
$u = 0.169849 - 0.057002I$ $a = -7.63550 + 0.35036I$ $b = 0.860446 + 0.474071I$	$0.100763 - 0.877365I$	$-4.31516 + 3.77329I$
$u = 1.87867$ $a = 0.431311$ $b = -0.853122$	1.07210	0
$u = -0.19520 + 1.90391I$ $a = 0.0437236 + 0.0504691I$ $b = -0.097631 + 0.463019I$	$-0.098440 - 0.706098I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.19520 - 1.90391I$ $a = 0.0437236 - 0.0504691I$ $b = -0.097631 - 0.463019I$	$-0.098440 + 0.706098I$	0

II. $I^u_2 =$
$\langle u^{11}+3u^{10}+\cdots+5b+8,\ -19u^{11}+3u^{10}+\cdots+5a-47,\ u^{12}-5u^{10}+\cdots+5u+1\rangle$

(i) Arc colorings

$$a_4 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_9 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_2 = \begin{pmatrix}\frac{19}{5}u^{11}-\frac{3}{5}u^{10}+\cdots+\frac{64}{5}u+\frac{47}{5}\\ -\frac{1}{5}u^{11}-\frac{3}{5}u^{10}+\cdots-\frac{1}{5}u-\frac{8}{5}\end{pmatrix}$$
$$a_5 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$
$$a_6 = \begin{pmatrix}-\frac{12}{5}u^{11}+\frac{9}{5}u^{10}+\cdots-\frac{97}{5}u-\frac{51}{5}\\ -\frac{2}{5}u^{11}-\frac{6}{5}u^{10}+\cdots+\frac{33}{5}u+\frac{14}{5}\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}u\\-u^3+u\end{pmatrix}$$
$$a_1 = \begin{pmatrix}\frac{18}{5}u^{11}-\frac{6}{5}u^{10}+\cdots+\frac{63}{5}u+\frac{39}{5}\\ -\frac{1}{5}u^{11}-\frac{3}{5}u^{10}+\cdots-\frac{1}{5}u-\frac{8}{5}\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}\frac{18}{5}u^{11}-\frac{6}{5}u^{10}+\cdots+\frac{63}{5}u+\frac{39}{5}\\ -\frac{8}{5}u^{11}+\frac{1}{5}u^{10}+\cdots-\frac{13}{5}u-\frac{14}{5}\end{pmatrix}$$
$$a_8 = \begin{pmatrix}\frac{11}{5}u^{11}-\frac{2}{5}u^{10}+\cdots+\frac{101}{5}u+\frac{33}{5}\\ -\frac{2}{5}u^{11}-\frac{6}{5}u^{10}+\cdots+\frac{33}{5}u+\frac{9}{5}\end{pmatrix}$$
$$a_7 = \begin{pmatrix}\frac{13}{5}u^{11}+\frac{4}{5}u^{10}+\cdots+\frac{68}{5}u+\frac{24}{5}\\ -\frac{2}{5}u^{11}-\frac{6}{5}u^{10}+\cdots+\frac{33}{5}u+\frac{9}{5}\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-\frac{17}{5}u^{11}-\frac{6}{5}u^{10}+\cdots+\frac{18}{5}u-\frac{1}{5}\\ \frac{3}{5}u^{11}+\frac{4}{5}u^{10}+\cdots-\frac{7}{5}u-\frac{1}{5}\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}-\frac{22}{5}u^{11}+\frac{9}{5}u^{10}+\cdots-\frac{97}{5}u-\frac{31}{5}\\ -\frac{3}{5}u^{11}+\frac{1}{5}u^{10}+\cdots-\frac{13}{5}u-\frac{14}{5}\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes
$= -\frac{1}{5}u^{11}-\frac{33}{5}u^{10}-\frac{9}{5}u^9+27u^8-\frac{74}{5}u^7-\frac{216}{5}u^6+\frac{439}{5}u^5+\frac{176}{5}u^4-135u^3-\frac{71}{5}u^2+\frac{294}{5}u-\frac{43}{5}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{12} - u^{11} + \cdots + 6u - 1$
c_2	$u^{12} + 3u^{11} + \cdots + 2u - 1$
c_3	$u^{12} - u^{11} + \cdots + 15u^2 - 1$
c_4	$u^{12} - 5u^{10} + \cdots + 5u + 1$
c_5	$u^{12} - 3u^{11} + \cdots - 2u - 1$
c_6	$u^{12} - u^{11} + \cdots + u - 1$
c_7	$u^{12} + u^{11} + \cdots + 15u^2 - 1$
c_8	$u^{12} + u^{11} + \cdots - 5u + 1$
c_9	$u^{12} - 5u^{10} + \cdots - 5u + 1$
c_{10}	$u^{12} + u^{11} + \cdots - u - 1$
c_{11}, c_{12}	$u^{12} - u^{11} + \cdots + 5u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{12} + 7y^{11} + \cdots - 4y + 1$
c_2, c_5	$y^{12} - 13y^{11} + \cdots - 6y + 1$
c_3, c_7	$y^{12} - 11y^{11} + \cdots - 30y + 1$
c_4, c_9	$y^{12} - 10y^{11} + \cdots - 29y + 1$
c_6, c_{10}	$y^{12} - 7y^{11} + \cdots - 13y + 1$
c_8, c_{11}, c_{12}	$y^{12} - 15y^{11} + \cdots - 27y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.21822$ $a = 1.79757$ $b = -0.601851$	-4.03710	-18.0780
$u = -1.27309$ $a = 0.277397$ $b = 1.16135$	-7.88309	-1.62320
$u = -1.268290 + 0.330427I$ $a = -0.58188 + 1.78206I$ $b = -0.09657 - 2.27913I$	$2.50992 - 6.48574I$	$-1.33595 + 8.54705I$
$u = -1.268290 - 0.330427I$ $a = -0.58188 - 1.78206I$ $b = -0.09657 + 2.27913I$	$2.50992 + 6.48574I$	$-1.33595 - 8.54705I$
$u = 1.320490 + 0.182645I$ $a = -0.416916 - 1.142720I$ $b = 1.12535 + 1.50126I$	$3.03542 + 2.75700I$	$-4.31533 - 2.69611I$
$u = 1.320490 - 0.182645I$ $a = -0.416916 + 1.142720I$ $b = 1.12535 - 1.50126I$	$3.03542 - 2.75700I$	$-4.31533 + 2.69611I$
$u = 0.638711$ $a = -0.671197$ $b = -1.41524$	-6.24905	0.243470
$u = -1.48898$ $a = 0.537683$ $b = -0.370407$	1.74863	-2.66980
$u = 0.72640 + 1.30991I$ $a = -0.191140 + 0.258916I$ $b = 0.005412 + 0.445100I$	$-0.304228 + 0.769223I$	$-12.9708 + 6.3200I$
$u = 0.72640 - 1.30991I$ $a = -0.191140 - 0.258916I$ $b = 0.005412 - 0.445100I$	$-0.304228 - 0.769223I$	$-12.9708 - 6.3200I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.411452$ $a = -3.50522$ $b = -0.610386$	-10.9545	-25.9780
$u = -0.240615$ $a = 2.94363$ $b = -1.23188$	-2.84629	-21.6500

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{12} - u^{11} + \cdots + 6u - 1)(u^{51} - 2u^{50} + \cdots - 2798u - 211)$
c_2	$(u^{12} + 3u^{11} + \cdots + 2u - 1)(u^{51} + 2u^{50} + \cdots - 10u + 1)$
c_3	$(u^{12} - u^{11} + \cdots + 15u^2 - 1)(u^{51} - 2u^{50} + \cdots - 110u - 11)$
c_4	$(u^{12} - 5u^{10} + \cdots + 5u + 1)(u^{51} + u^{50} + \cdots + 9u - 9)$
c_5	$(u^{12} - 3u^{11} + \cdots - 2u - 1)(u^{51} + 2u^{50} + \cdots - 10u + 1)$
c_6	$(u^{12} - u^{11} + \cdots + u - 1)(u^{51} - 2u^{50} + \cdots - 17u + 1)$
c_7	$(u^{12} + u^{11} + \cdots + 15u^2 - 1)(u^{51} - 2u^{50} + \cdots - 110u - 11)$
c_8	$(u^{12} + u^{11} + \cdots - 5u + 1)(u^{51} - 18u^{49} + \cdots + 13u - 1)$
c_9	$(u^{12} - 5u^{10} + \cdots - 5u + 1)(u^{51} + u^{50} + \cdots + 9u - 9)$
c_{10}	$(u^{12} + u^{11} + \cdots - u - 1)(u^{51} - 2u^{50} + \cdots - 17u + 1)$
c_{11}, c_{12}	$(u^{12} - u^{11} + \cdots + 5u + 1)(u^{51} - 18u^{49} + \cdots + 13u - 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{12}+7y^{11}+\cdots-4y+1)(y^{51}+70y^{50}+\cdots+9533684y-44521)$
c_2, c_5	$(y^{12}-13y^{11}+\cdots-6y+1)(y^{51}-10y^{50}+\cdots+26y-1)$
c_3, c_7	$(y^{12}-11y^{11}+\cdots-30y+1)(y^{51}-40y^{50}+\cdots+12914y-121)$
c_4, c_9	$(y^{12}-10y^{11}+\cdots-29y+1)(y^{51}-51y^{50}+\cdots+6489y-81)$
c_6, c_{10}	$(y^{12}-7y^{11}+\cdots-13y+1)(y^{51}-8y^{50}+\cdots+181y-1)$
c_8, c_{11}, c_{12}	$(y^{12}-15y^{11}+\cdots-27y+1)(y^{51}-36y^{50}+\cdots+279y-1)$