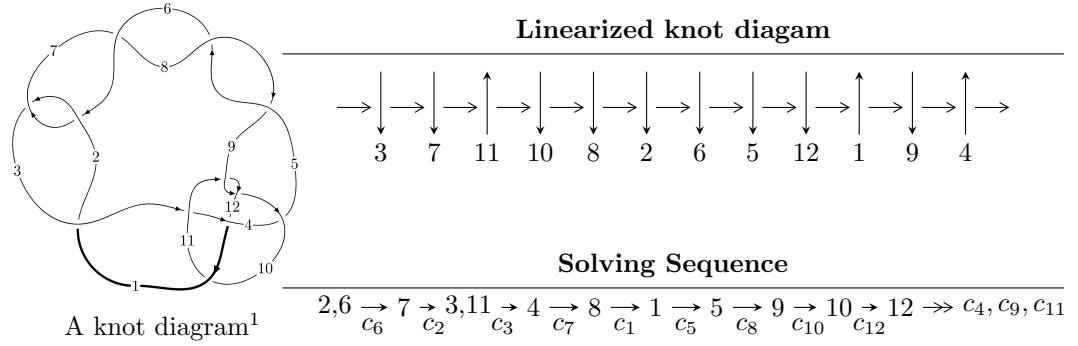


$12a_{0676}$ ($K12a_{0676}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -1.44258 \times 10^{23}u^{71} + 3.59914 \times 10^{23}u^{70} + \dots + 7.89345 \times 10^{22}b - 2.68405 \times 10^{23}, \\ - 1.39901 \times 10^{23}u^{71} + 3.60918 \times 10^{23}u^{70} + \dots + 7.89345 \times 10^{22}a + 4.78490 \times 10^{22}, u^{72} - 2u^{71} + \dots + 3u + \dots \rangle$$

$$I_2^u = \langle b - u + 1, u^2 + a - u, u^3 - u^2 + 1 \rangle$$

* 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/math/draw/index.htm#Running-draw>), where we modified some parts for our purpose(<https://github.com/CATsTAILs/LinksPainter>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I.

$$I_1^u = \langle -1.44 \times 10^{23}u^{71} + 3.60 \times 10^{23}u^{70} + \dots + 7.89 \times 10^{22}b - 2.68 \times 10^{23}, -1.40 \times 10^{23}u^{71} + 3.61 \times 10^{23}u^{70} + \dots + 7.89 \times 10^{22}a + 4.78 \times 10^{22}, u^{72} - 2u^{71} + \dots + 3u + 1 \rangle$$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.77237u^{71} - 4.57237u^{70} + \dots + 0.769849u - 0.606185 \\ 1.82757u^{71} - 4.55965u^{70} + \dots + 9.83520u + 3.40035 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -4.80003u^{71} + 11.7741u^{70} + \dots - 2.80818u - 4.87175 \\ -5.18354u^{71} + 14.7695u^{70} + \dots - 9.65757u - 7.77645 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u^2 + 1 \\ u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^3 \\ u^5 - u^3 + u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u^4 - u^2 + 1 \\ -u^4 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u^6 + u^4 - 2u^2 + 1 \\ u^6 + u^2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.73698u^{71} - 4.53698u^{70} + \dots + 1.12293u - 0.488491 \\ 1.86225u^{71} - 4.76003u^{70} + \dots + 9.75138u + 3.39997 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1.80708u^{71} - 4.60708u^{70} + \dots - 0.0706153u + 0.176461 \\ 1.99306u^{71} - 4.95992u^{70} + \dots + 10.2168u + 3.60008 \end{pmatrix}$$

(ii) Obstruction class = -1

$$(iii) \text{ Cusp Shapes} = \frac{3029559155238658290078361}{78934523837018836771529}u^{71} - \frac{8171406099798322196390615}{78934523837018836771529}u^{70} + \dots + \frac{4343268651222967960133360}{78934523837018836771529}u + \frac{3408340608627538586838312}{78934523837018836771529}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5, c_7 c_8	$u^{72} + 14u^{71} + \cdots + u + 1$
c_2, c_6	$u^{72} - 2u^{71} + \cdots + 3u + 1$
c_3	$u^{72} - 3u^{71} + \cdots - 164u - 53$
c_4	$u^{72} - 5u^{71} + \cdots - 32u + 1$
c_9, c_{11}	$u^{72} - 4u^{71} + \cdots + 2u - 1$
c_{10}	$u^{72} + 11u^{71} + \cdots - 4u + 8$
c_{12}	$u^{72} + 4u^{71} + \cdots - u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5, c_7 c_8	$y^{72} + 90y^{71} + \cdots + 123y + 1$
c_2, c_6	$y^{72} - 14y^{71} + \cdots - y + 1$
c_3	$y^{72} - 79y^{71} + \cdots + 38824y + 2809$
c_4	$y^{72} - 59y^{71} + \cdots - 416y + 1$
c_9, c_{11}	$y^{72} - 40y^{71} + \cdots - 82y + 1$
c_{10}	$y^{72} - 21y^{71} + \cdots - 1872y + 64$
c_{12}	$y^{72} + 14y^{71} + \cdots - y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.968902 + 0.264227I$		
$a = -0.466064 - 0.401865I$	$-3.89955 - 2.26043I$	0
$b = 0.589810 - 0.192391I$		
$u = -0.968902 - 0.264227I$		
$a = -0.466064 + 0.401865I$	$-3.89955 + 2.26043I$	0
$b = 0.589810 + 0.192391I$		
$u = -0.837009 + 0.531428I$		
$a = -1.79640 + 0.60404I$	$-1.45829 + 5.16912I$	0
$b = 1.53021 + 0.76581I$		
$u = -0.837009 - 0.531428I$		
$a = -1.79640 - 0.60404I$	$-1.45829 - 5.16912I$	0
$b = 1.53021 - 0.76581I$		
$u = 0.963527 + 0.168807I$		
$a = -0.205175 - 0.227411I$	$-4.41858 - 7.88528I$	0
$b = -0.609188 + 1.049750I$		
$u = 0.963527 - 0.168807I$		
$a = -0.205175 + 0.227411I$	$-4.41858 + 7.88528I$	0
$b = -0.609188 - 1.049750I$		
$u = 0.801619 + 0.650298I$		
$a = -0.1235270 + 0.0608340I$	$2.44196 - 2.47078I$	0
$b = 0.362049 + 0.280836I$		
$u = 0.801619 - 0.650298I$		
$a = -0.1235270 - 0.0608340I$	$2.44196 + 2.47078I$	0
$b = 0.362049 - 0.280836I$		
$u = 0.788074 + 0.561663I$		
$a = -2.63792 - 1.76345I$	$0.09175 - 2.64810I$	$0. - 12.56607I$
$b = 1.021010 + 0.526040I$		
$u = 0.788074 - 0.561663I$		
$a = -2.63792 + 1.76345I$	$0.09175 + 2.64810I$	$0. + 12.56607I$
$b = 1.021010 - 0.526040I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.672578 + 0.792936I$		
$a = 0.823148 - 0.340327I$	$2.70900 - 3.15094I$	0
$b = -0.323921 + 0.762920I$		
$u = 0.672578 - 0.792936I$		
$a = 0.823148 + 0.340327I$	$2.70900 + 3.15094I$	0
$b = -0.323921 - 0.762920I$		
$u = -0.936556$		
$a = -0.0800858$	-1.61727	-3.00800
$b = -0.822255$		
$u = -0.882133 + 0.595412I$		
$a = -0.77420 + 1.19520I$	$3.44838 + 7.01000I$	0
$b = 1.43975 - 0.95089I$		
$u = -0.882133 - 0.595412I$		
$a = -0.77420 - 1.19520I$	$3.44838 - 7.01000I$	0
$b = 1.43975 + 0.95089I$		
$u = -0.627065 + 0.693340I$		
$a = 1.62692 - 0.65486I$	$4.28127 - 2.21641I$	0
$b = -1.091230 - 0.419584I$		
$u = -0.627065 - 0.693340I$		
$a = 1.62692 + 0.65486I$	$4.28127 + 2.21641I$	0
$b = -1.091230 + 0.419584I$		
$u = -0.542743 + 0.760330I$		
$a = -1.35987 + 0.89996I$	$1.26807 - 7.90640I$	$0. + 4.88275I$
$b = 0.950096 - 0.498703I$		
$u = -0.542743 - 0.760330I$		
$a = -1.35987 - 0.89996I$	$1.26807 + 7.90640I$	$0. - 4.88275I$
$b = 0.950096 + 0.498703I$		
$u = 0.707463 + 0.576385I$		
$a = 1.82821 + 1.70583I$	$0.35169 - 1.67874I$	$-8.0346 + 12.5584I$
$b = -1.14473 - 1.52935I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.707463 - 0.576385I$		
$a = 1.82821 - 1.70583I$	$0.35169 + 1.67874I$	$-8.0346 - 12.5584I$
$b = -1.14473 + 1.52935I$		
$u = 0.950289 + 0.528900I$		
$a = 0.496182 + 0.879142I$	$1.51382 - 5.03623I$	0
$b = -0.380086 - 0.410207I$		
$u = 0.950289 - 0.528900I$		
$a = 0.496182 - 0.879142I$	$1.51382 + 5.03623I$	0
$b = -0.380086 + 0.410207I$		
$u = -0.765809 + 0.473153I$		
$a = -0.559849 - 0.130249I$	$-2.54645 + 1.81480I$	$-11.24770 - 4.52021I$
$b = -0.46632 + 1.52805I$		
$u = -0.765809 - 0.473153I$		
$a = -0.559849 + 0.130249I$	$-2.54645 - 1.81480I$	$-11.24770 + 4.52021I$
$b = -0.46632 - 1.52805I$		
$u = -0.953950 + 0.579297I$		
$a = 1.28886 - 0.88100I$	$-0.08677 + 12.83750I$	0
$b = -1.122300 + 0.316177I$		
$u = -0.953950 - 0.579297I$		
$a = 1.28886 + 0.88100I$	$-0.08677 - 12.83750I$	0
$b = -1.122300 - 0.316177I$		
$u = 0.499560 + 0.694540I$		
$a = -1.201160 + 0.065538I$	$2.97800 + 0.47203I$	$1.72924 - 1.55020I$
$b = 0.709959 + 0.050244I$		
$u = 0.499560 - 0.694540I$		
$a = -1.201160 - 0.065538I$	$2.97800 - 0.47203I$	$1.72924 + 1.55020I$
$b = 0.709959 - 0.050244I$		
$u = 0.813920 + 0.197808I$		
$a = 0.003055 + 0.917148I$	$-0.75535 - 3.39687I$	$-8.26248 + 8.56994I$
$b = 0.323912 - 1.127260I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.813920 - 0.197808I$		
$a = 0.003055 - 0.917148I$	$-0.75535 + 3.39687I$	$-8.26248 - 8.56994I$
$b = 0.323912 + 1.127260I$		
$u = -0.615151 + 0.551675I$		
$a = 0.53717 - 1.60738I$	$-0.763729 - 1.003110I$	$-6.06520 + 2.84230I$
$b = -1.37830 + 0.97742I$		
$u = -0.615151 - 0.551675I$		
$a = 0.53717 + 1.60738I$	$-0.763729 + 1.003110I$	$-6.06520 - 2.84230I$
$b = -1.37830 - 0.97742I$		
$u = 0.953441 + 0.705802I$		
$a = 0.359518 - 0.560462I$	$1.86961 - 2.36944I$	0
$b = 0.232048 + 0.838202I$		
$u = 0.953441 - 0.705802I$		
$a = 0.359518 + 0.560462I$	$1.86961 + 2.36944I$	0
$b = 0.232048 - 0.838202I$		
$u = 0.798195 + 0.054269I$		
$a = 1.44619 + 0.40925I$	$-4.41829 - 1.60184I$	$-17.9572 + 4.5768I$
$b = -0.451145 - 1.014630I$		
$u = 0.798195 - 0.054269I$		
$a = 1.44619 - 0.40925I$	$-4.41829 + 1.60184I$	$-17.9572 - 4.5768I$
$b = -0.451145 + 1.014630I$		
$u = -0.715143 + 0.104849I$		
$a = -0.120961 - 0.148988I$	$-1.135390 + 0.150760I$	$-9.68659 - 0.82277I$
$b = -0.713601 + 0.443948I$		
$u = -0.715143 - 0.104849I$		
$a = -0.120961 + 0.148988I$	$-1.135390 - 0.150760I$	$-9.68659 + 0.82277I$
$b = -0.713601 - 0.443948I$		
$u = -0.887595 + 0.926385I$		
$a = 1.62680 - 1.07259I$	$11.21660 - 1.64667I$	0
$b = -2.66969 - 0.98983I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.887595 - 0.926385I$		
$a = 1.62680 + 1.07259I$	$11.21660 + 1.64667I$	0
$b = -2.66969 + 0.98983I$		
$u = 0.927711 + 0.887451I$		
$a = -0.186364 + 0.276748I$	$5.73987 - 3.27877I$	0
$b = 0.457548 + 0.191821I$		
$u = 0.927711 - 0.887451I$		
$a = -0.186364 - 0.276748I$	$5.73987 + 3.27877I$	0
$b = 0.457548 - 0.191821I$		
$u = 0.915139 + 0.900867I$		
$a = -1.07202 - 1.74600I$	$7.54879 + 0.58276I$	0
$b = 3.62389 + 0.18229I$		
$u = 0.915139 - 0.900867I$		
$a = -1.07202 + 1.74600I$	$7.54879 - 0.58276I$	0
$b = 3.62389 - 0.18229I$		
$u = -0.926626 + 0.902491I$		
$a = -3.29968 + 2.23419I$	$9.16836 + 2.49320I$	0
$b = 5.82902 + 1.51753I$		
$u = -0.926626 - 0.902491I$		
$a = -3.29968 - 2.23419I$	$9.16836 - 2.49320I$	0
$b = 5.82902 - 1.51753I$		
$u = 0.894832 + 0.934493I$		
$a = 1.47190 + 2.10489I$	$10.06680 + 9.25135I$	0
$b = -3.70581 - 0.00429I$		
$u = 0.894832 - 0.934493I$		
$a = 1.47190 - 2.10489I$	$10.06680 - 9.25135I$	0
$b = -3.70581 + 0.00429I$		
$u = 0.945151 + 0.886788I$		
$a = 1.82993 + 1.05340I$	$7.45245 - 7.18019I$	0
$b = -3.14838 + 1.79988I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.945151 - 0.886788I$		
$a = 1.82993 - 1.05340I$	$7.45245 + 7.18019I$	0
$b = -3.14838 - 1.79988I$		
$u = 0.912379 + 0.922074I$		
$a = -1.44227 - 1.52272I$	$13.33720 + 2.59179I$	0
$b = 2.92179 - 0.80824I$		
$u = 0.912379 - 0.922074I$		
$a = -1.44227 + 1.52272I$	$13.33720 - 2.59179I$	0
$b = 2.92179 + 0.80824I$		
$u = -0.939518 + 0.896155I$		
$a = 2.45229 - 3.28599I$	$9.12667 + 4.14015I$	0
$b = -5.86565 - 0.05755I$		
$u = -0.939518 - 0.896155I$		
$a = 2.45229 + 3.28599I$	$9.12667 - 4.14015I$	0
$b = -5.86565 + 0.05755I$		
$u = -0.925097 + 0.928051I$		
$a = -0.668220 + 0.883655I$	$12.70380 + 2.76882I$	0
$b = 1.44462 + 0.22158I$		
$u = -0.925097 - 0.928051I$		
$a = -0.668220 - 0.883655I$	$12.70380 - 2.76882I$	0
$b = 1.44462 - 0.22158I$		
$u = -0.687552$		
$a = 2.99846$	-2.65408	94.5990
$b = 4.14675$		
$u = 0.961864 + 0.896115I$		
$a = 1.53307 + 1.32987I$	$13.1756 - 9.2867I$	0
$b = -3.56486 + 0.38651I$		
$u = 0.961864 - 0.896115I$		
$a = 1.53307 - 1.32987I$	$13.1756 + 9.2867I$	0
$b = -3.56486 - 0.38651I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.977744 + 0.880445I$		
$a = -1.17212 + 1.51469I$	$10.92380 + 8.30184I$	0
$b = 3.05247 - 0.03420I$		
$u = -0.977744 - 0.880445I$		
$a = -1.17212 - 1.51469I$	$10.92380 - 8.30184I$	0
$b = 3.05247 + 0.03420I$		
$u = -0.073283 + 0.676263I$		
$a = 0.247487 - 0.921014I$	$-0.94073 + 5.37603I$	$-2.50022 - 5.98273I$
$b = 0.369400 - 0.069244I$		
$u = -0.073283 - 0.676263I$		
$a = 0.247487 + 0.921014I$	$-0.94073 - 5.37603I$	$-2.50022 + 5.98273I$
$b = 0.369400 + 0.069244I$		
$u = -0.959256 + 0.908713I$		
$a = 0.921830 - 0.524750I$	$12.59070 + 3.98684I$	0
$b = -1.75197 - 0.38856I$		
$u = -0.959256 - 0.908713I$		
$a = 0.921830 + 0.524750I$	$12.59070 - 3.98684I$	0
$b = -1.75197 + 0.38856I$		
$u = 0.979452 + 0.889436I$		
$a = -2.17771 - 1.34335I$	$9.7900 - 15.9619I$	0
$b = 3.93843 - 1.30440I$		
$u = 0.979452 - 0.889436I$		
$a = -2.17771 + 1.34335I$	$9.7900 + 15.9619I$	0
$b = 3.93843 + 1.30440I$		
$u = 0.091771 + 0.497640I$		
$a = -1.02382 + 1.03092I$	$1.46452 + 1.15591I$	$2.35576 - 1.43742I$
$b = 0.236589 + 0.194531I$		
$u = 0.091771 - 0.497640I$		
$a = -1.02382 - 1.03092I$	$1.46452 - 1.15591I$	$2.35576 + 1.43742I$
$b = 0.236589 - 0.194531I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.167885 + 0.261248I$		
$a = -2.16440 - 0.06411I$	$-1.92776 + 0.81013I$	$-4.46723 - 0.15914I$
$b = -0.807671 + 0.534557I$		
$u = -0.167885 - 0.261248I$		
$a = -2.16440 + 0.06411I$	$-1.92776 - 0.81013I$	$-4.46723 + 0.15914I$
$b = -0.807671 - 0.534557I$		

$$\text{II. } I_2^u = \langle b - u + 1, u^2 + a - u, u^3 - u^2 + 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_2 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_6 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_3 &= \begin{pmatrix} -u \\ -u^2 + u + 1 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -u^2 + u \\ u - 1 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -u^2 - 1 \\ -2u^2 + 3u \end{pmatrix} \\ a_8 &= \begin{pmatrix} -u^2 + 1 \\ u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} u^2 - 1 \\ -u^2 \end{pmatrix} \\ a_5 &= \begin{pmatrix} -u \\ -u^2 + u + 1 \end{pmatrix} \\ a_9 &= \begin{pmatrix} 0 \\ -u \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -u^2 + u \\ u - 1 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -u^2 + u \\ 2u - 1 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $-u^2 + 8u - 16$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5, c_7 c_8, c_{12}	$y^3 + 3y^2 + 2y - 1$
c_2, c_6	$y^3 - y^2 + 2y - 1$
c_3, c_4	$y^3 - 2y^2 - 3y - 1$
c_9, c_{11}	$(y - 1)^3$
c_{10}	y^3

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.877439 + 0.744862I$		
$a = 0.662359 - 0.562280I$	$1.37919 - 2.82812I$	$-9.19557 + 4.65175I$
$b = -0.122561 + 0.744862I$		
$u = 0.877439 - 0.744862I$		
$a = 0.662359 + 0.562280I$	$1.37919 + 2.82812I$	$-9.19557 - 4.65175I$
$b = -0.122561 - 0.744862I$		
$u = -0.754878$		
$a = -1.32472$	-2.75839	-22.6090
$b = -1.75488$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_5	$(u^3 - u^2 + 2u - 1)(u^{72} + 14u^{71} + \cdots + u + 1)$
c_2	$(u^3 + u^2 - 1)(u^{72} - 2u^{71} + \cdots + 3u + 1)$
c_3	$(u^3 + 2u^2 + u + 1)(u^{72} - 3u^{71} + \cdots - 164u - 53)$
c_4	$(u^3 + 2u^2 + u + 1)(u^{72} - 5u^{71} + \cdots - 32u + 1)$
c_6	$(u^3 - u^2 + 1)(u^{72} - 2u^{71} + \cdots + 3u + 1)$
c_7, c_8	$(u^3 + u^2 + 2u + 1)(u^{72} + 14u^{71} + \cdots + u + 1)$
c_9	$((u - 1)^3)(u^{72} - 4u^{71} + \cdots + 2u - 1)$
c_{10}	$u^3(u^{72} + 11u^{71} + \cdots - 4u + 8)$
c_{11}	$((u + 1)^3)(u^{72} - 4u^{71} + \cdots + 2u - 1)$
c_{12}	$(u^3 - u^2 + 2u - 1)(u^{72} + 4u^{71} + \cdots - u - 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5, c_7 c_8	$(y^3 + 3y^2 + 2y - 1)(y^{72} + 90y^{71} + \dots + 123y + 1)$
c_2, c_6	$(y^3 - y^2 + 2y - 1)(y^{72} - 14y^{71} + \dots - y + 1)$
c_3	$(y^3 - 2y^2 - 3y - 1)(y^{72} - 79y^{71} + \dots + 38824y + 2809)$
c_4	$(y^3 - 2y^2 - 3y - 1)(y^{72} - 59y^{71} + \dots - 416y + 1)$
c_9, c_{11}	$((y - 1)^3)(y^{72} - 40y^{71} + \dots - 82y + 1)$
c_{10}	$y^3(y^{72} - 21y^{71} + \dots - 1872y + 64)$
c_{12}	$(y^3 + 3y^2 + 2y - 1)(y^{72} + 14y^{71} + \dots - y + 1)$