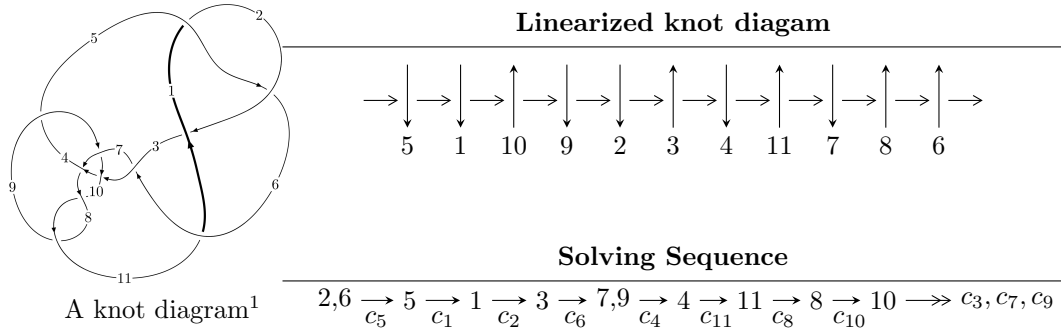


11a₇₂ (K11a₇₂)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 9.34803 \times 10^{24}u^{76} - 2.11084 \times 10^{24}u^{75} + \dots + 9.10663 \times 10^{24}b + 2.06273 \times 10^{24}, \\ 2.74420 \times 10^{25}u^{76} - 4.20119 \times 10^{25}u^{75} + \dots + 9.10663 \times 10^{24}a + 1.31742 \times 10^{25}, u^{77} - 2u^{76} + \dots - u - 1 \rangle$$

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

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 78 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>).

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

I.

$$I_1^u = \langle 9.35 \times 10^{24} u^{76} - 2.11 \times 10^{24} u^{75} + \dots + 9.11 \times 10^{24} b + 2.06 \times 10^{24}, 2.74 \times 10^{25} u^{76} - 4.20 \times 10^{25} u^{75} + \dots + 9.11 \times 10^{24} a + 1.32 \times 10^{25}, u^{77} - 2u^{76} + \dots - u - 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_2 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_6 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_5 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_3 &= \begin{pmatrix} -u^3 \\ u^5 - u^3 + u \end{pmatrix} \\ a_7 &= \begin{pmatrix} u^8 - u^6 + u^4 + 1 \\ -u^{10} + 2u^8 - 3u^6 + 2u^4 - u^2 \end{pmatrix} \\ a_9 &= \begin{pmatrix} -3.01341u^{76} + 4.61333u^{75} + \dots - 6.55819u - 1.44666 \\ -1.02651u^{76} + 0.231791u^{75} + \dots + 2.18024u - 0.226508 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -4.68917u^{76} + 6.28660u^{75} + \dots - 16.1580u - 3.80329 \\ 0.0425498u^{76} - 0.839980u^{75} + \dots + 2.36327u + 0.839980 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} u^3 \\ -u^3 + u \end{pmatrix} \\ a_8 &= \begin{pmatrix} -2.84647u^{76} + 4.44668u^{75} + \dots - 6.17515u - 1.26334 \\ -0.993730u^{76} + 0.182343u^{75} + \dots + 1.42940u - 0.193730 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -2.78104u^{76} + 4.37995u^{75} + \dots - 7.68244u - 1.12997 \\ -1.05786u^{76} + 0.320078u^{75} + \dots + 2.03322u - 0.257856 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -2.78104u^{76} + 4.37995u^{75} + \dots - 7.68244u - 1.12997 \\ -1.05786u^{76} + 0.320078u^{75} + \dots + 2.03322u - 0.257856 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

$$\text{(iii) Cusp Shapes} = -\frac{98621680931509431399030560}{4553313053666260493091767} u^{76} + \frac{105996530335693508948090410}{4553313053666260493091767} u^{75} + \dots - \frac{186890667880794717580337970}{4553313053666260493091767} u - \frac{85143874290832413279068140}{4553313053666260493091767}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{77} + 2u^{76} + \dots - u + 1$
c_2	$u^{77} + 36u^{76} + \dots - u + 1$
c_3	$u^{77} - 4u^{76} + \dots - 1931u + 431$
c_4	$u^{77} - 2u^{76} + \dots + 22949u + 1393$
c_6	$u^{77} - 22u^{75} + \dots - 44155u + 8353$
c_7	$u^{77} + 4u^{76} + \dots + u + 1$
c_8, c_{10}	$u^{77} + 2u^{76} + \dots - u + 1$
c_9	$u^{77} - 13u^{76} + \dots + 2u + 2$
c_{11}	$u^{77} + 3u^{76} + \dots + 523u^2 + 32$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{77} - 36y^{76} + \dots - y - 1$
c_2	$y^{77} + 12y^{76} + \dots - 69y - 1$
c_3	$y^{77} - 92y^{76} + \dots + 8518895y - 185761$
c_4	$y^{77} - 48y^{76} + \dots + 99292559y - 1940449$
c_6	$y^{77} - 44y^{76} + \dots + 683599815y - 69772609$
c_7	$y^{77} + 12y^{76} + \dots - y - 1$
c_8, c_{10}	$y^{77} - 56y^{76} + \dots - 21y - 1$
c_9	$y^{77} + 9y^{76} + \dots - 40y - 4$
c_{11}	$y^{77} + 9y^{76} + \dots - 33472y - 1024$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.633423 + 0.760124I$ $a = -0.611333 - 0.236752I$ $b = -0.164228 + 0.298926I$	$7.04838 + 0.24930I$	0
$u = -0.633423 - 0.760124I$ $a = -0.611333 + 0.236752I$ $b = -0.164228 - 0.298926I$	$7.04838 - 0.24930I$	0
$u = -0.976497 + 0.154539I$ $a = 1.94444 + 0.74223I$ $b = -1.75615 + 0.52296I$	$1.58545 - 1.56270I$	0
$u = -0.976497 - 0.154539I$ $a = 1.94444 - 0.74223I$ $b = -1.75615 - 0.52296I$	$1.58545 + 1.56270I$	0
$u = 0.980965 + 0.263279I$ $a = -5.16701 + 1.31783I$ $b = 2.20127 + 1.66225I$	$-0.098989 - 0.629989I$	0
$u = 0.980965 - 0.263279I$ $a = -5.16701 - 1.31783I$ $b = 2.20127 - 1.66225I$	$-0.098989 + 0.629989I$	0
$u = 0.602244 + 0.740774I$ $a = 0.487640 - 0.874753I$ $b = 0.138617 + 0.833361I$	$7.76295 - 8.98786I$	$5.03981 + 6.60179I$
$u = 0.602244 - 0.740774I$ $a = 0.487640 + 0.874753I$ $b = 0.138617 - 0.833361I$	$7.76295 + 8.98786I$	$5.03981 - 6.60179I$
$u = 1.001230 + 0.352341I$ $a = 2.57836 + 0.25405I$ $b = -0.34696 - 2.11296I$	$-0.63003 - 1.40723I$	0
$u = 1.001230 - 0.352341I$ $a = 2.57836 - 0.25405I$ $b = -0.34696 + 2.11296I$	$-0.63003 + 1.40723I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.986878 + 0.427459I$ $a = -1.09537 + 1.40681I$ $b = -0.15416 - 2.04505I$	$0.14403 + 4.20779I$	0
$u = -0.986878 - 0.427459I$ $a = -1.09537 - 1.40681I$ $b = -0.15416 + 2.04505I$	$0.14403 - 4.20779I$	0
$u = -0.857333 + 0.345143I$ $a = 1.55446 + 0.57642I$ $b = -1.251310 - 0.537113I$	$2.25018 + 1.60092I$	$4.93810 - 3.13192I$
$u = -0.857333 - 0.345143I$ $a = 1.55446 - 0.57642I$ $b = -1.251310 + 0.537113I$	$2.25018 - 1.60092I$	$4.93810 + 3.13192I$
$u = -0.390473 + 0.833868I$ $a = -0.426341 + 0.195318I$ $b = -0.962283 - 0.945326I$	$5.65147 - 3.46025I$	$8.06773 + 5.13180I$
$u = -0.390473 - 0.833868I$ $a = -0.426341 - 0.195318I$ $b = -0.962283 + 0.945326I$	$5.65147 + 3.46025I$	$8.06773 - 5.13180I$
$u = 1.057940 + 0.262256I$ $a = 0.163573 + 0.640731I$ $b = 0.273950 - 0.088341I$	$-2.24047 - 0.49207I$	0
$u = 1.057940 - 0.262256I$ $a = 0.163573 - 0.640731I$ $b = 0.273950 + 0.088341I$	$-2.24047 + 0.49207I$	0
$u = -1.081720 + 0.191062I$ $a = 1.184630 + 0.277945I$ $b = -0.759225 + 0.986911I$	$-2.82137 - 3.73074I$	0
$u = -1.081720 - 0.191062I$ $a = 1.184630 - 0.277945I$ $b = -0.759225 - 0.986911I$	$-2.82137 + 3.73074I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.387547 + 0.806255I$ $a = 0.563280 + 0.658078I$ $b = 1.72067 - 1.45490I$	$6.58364 + 11.91200I$	$3.84588 - 6.37900I$
$u = 0.387547 - 0.806255I$ $a = 0.563280 - 0.658078I$ $b = 1.72067 + 1.45490I$	$6.58364 - 11.91200I$	$3.84588 + 6.37900I$
$u = 0.541842 + 0.673198I$ $a = 0.09318 + 1.41546I$ $b = 0.631068 - 0.608537I$	$2.59107 - 3.68436I$	$3.37129 + 6.54731I$
$u = 0.541842 - 0.673198I$ $a = 0.09318 - 1.41546I$ $b = 0.631068 + 0.608537I$	$2.59107 + 3.68436I$	$3.37129 - 6.54731I$
$u = 0.483139 + 0.708206I$ $a = -0.886828 + 0.978020I$ $b = -0.0147570 - 0.0914207I$	$6.41209 - 0.81622I$	$9.40053 + 2.76203I$
$u = 0.483139 - 0.708206I$ $a = -0.886828 - 0.978020I$ $b = -0.0147570 + 0.0914207I$	$6.41209 + 0.81622I$	$9.40053 - 2.76203I$
$u = 0.440637 + 0.729674I$ $a = -1.102280 - 0.664605I$ $b = -1.33147 + 1.25437I$	$6.18768 + 3.22828I$	$8.64527 - 4.04810I$
$u = 0.440637 - 0.729674I$ $a = -1.102280 + 0.664605I$ $b = -1.33147 - 1.25437I$	$6.18768 - 3.22828I$	$8.64527 + 4.04810I$
$u = 0.392152 + 0.748358I$ $a = -0.246077 - 1.227730I$ $b = -1.38993 + 0.56100I$	$1.81609 + 5.99286I$	$1.94012 - 6.31838I$
$u = 0.392152 - 0.748358I$ $a = -0.246077 + 1.227730I$ $b = -1.38993 - 0.56100I$	$1.81609 - 5.99286I$	$1.94012 + 6.31838I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.150190 + 0.154691I$ $a = -1.66372 - 1.56905I$ $b = 1.70843 + 0.15475I$	$1.48123 - 9.38293I$	0
$u = -1.150190 - 0.154691I$ $a = -1.66372 + 1.56905I$ $b = 1.70843 - 0.15475I$	$1.48123 + 9.38293I$	0
$u = -1.097430 + 0.397998I$ $a = -2.20501 - 0.41756I$ $b = 1.71177 - 0.97354I$	$-4.75169 + 4.63385I$	0
$u = -1.097430 - 0.397998I$ $a = -2.20501 + 0.41756I$ $b = 1.71177 + 0.97354I$	$-4.75169 - 4.63385I$	0
$u = 1.019250 + 0.569973I$ $a = -0.968680 + 0.492416I$ $b = 1.56760 + 0.09910I$	$1.17732 - 1.14110I$	0
$u = 1.019250 - 0.569973I$ $a = -0.968680 - 0.492416I$ $b = 1.56760 - 0.09910I$	$1.17732 + 1.14110I$	0
$u = -0.966449 + 0.658776I$ $a = -0.544919 + 0.354770I$ $b = -0.060655 + 0.135899I$	$6.05588 + 5.10252I$	0
$u = -0.966449 - 0.658776I$ $a = -0.544919 - 0.354770I$ $b = -0.060655 - 0.135899I$	$6.05588 - 5.10252I$	0
$u = 0.988060 + 0.637942I$ $a = 1.037290 + 0.762523I$ $b = -0.344734 - 0.328832I$	$6.61756 + 3.75380I$	0
$u = 0.988060 - 0.637942I$ $a = 1.037290 - 0.762523I$ $b = -0.344734 + 0.328832I$	$6.61756 - 3.75380I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.441519 + 0.688569I$ $a = -0.640475 - 0.410726I$ $b = 3.57366 - 0.54646I$	$3.93132 - 1.04131I$	$-17.5631 - 6.0870I$
$u = -0.441519 - 0.688569I$ $a = -0.640475 + 0.410726I$ $b = 3.57366 + 0.54646I$	$3.93132 + 1.04131I$	$-17.5631 + 6.0870I$
$u = -1.048020 + 0.551434I$ $a = 1.50338 + 1.61813I$ $b = -2.00955 - 0.35919I$	$0.78969 + 4.81154I$	0
$u = -1.048020 - 0.551434I$ $a = 1.50338 - 1.61813I$ $b = -2.00955 + 0.35919I$	$0.78969 - 4.81154I$	0
$u = 1.098860 + 0.457057I$ $a = -1.34783 + 1.20877I$ $b = 1.55693 + 0.45145I$	$-4.35858 - 2.73970I$	0
$u = 1.098860 - 0.457057I$ $a = -1.34783 - 1.20877I$ $b = 1.55693 - 0.45145I$	$-4.35858 + 2.73970I$	0
$u = -0.490723 + 0.637155I$ $a = 0.495475 + 0.840231I$ $b = -1.195810 - 0.341182I$	$2.43954 - 0.14027I$	$3.53078 + 1.38098I$
$u = -0.490723 - 0.637155I$ $a = 0.495475 - 0.840231I$ $b = -1.195810 + 0.341182I$	$2.43954 + 0.14027I$	$3.53078 - 1.38098I$
$u = -0.385008 + 0.703290I$ $a = 0.458055 - 0.514268I$ $b = 0.110246 + 0.984199I$	$1.91834 - 1.76256I$	$1.60352 - 0.19237I$
$u = -0.385008 - 0.703290I$ $a = 0.458055 + 0.514268I$ $b = 0.110246 - 0.984199I$	$1.91834 + 1.76256I$	$1.60352 + 0.19237I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.799179$ $a = 0.890054$ $b = 0.0869293$	-1.30832	-7.95820
$u = 1.056810 + 0.584937I$ $a = -0.203663 - 0.214512I$ $b = 0.316267 - 0.635080I$	$4.71591 - 4.15265I$	0
$u = 1.056810 - 0.584937I$ $a = -0.203663 + 0.214512I$ $b = 0.316267 + 0.635080I$	$4.71591 + 4.15265I$	0
$u = 1.204850 + 0.137903I$ $a = 0.838912 - 0.786254I$ $b = -1.002720 + 0.299954I$	$0.272573 + 0.769014I$	0
$u = 1.204850 - 0.137903I$ $a = 0.838912 + 0.786254I$ $b = -1.002720 - 0.299954I$	$0.272573 - 0.769014I$	0
$u = -1.072810 + 0.570326I$ $a = -2.14473 - 4.53419I$ $b = 3.85106 + 0.99547I$	$2.07576 + 5.91007I$	0
$u = -1.072810 - 0.570326I$ $a = -2.14473 + 4.53419I$ $b = 3.85106 - 0.99547I$	$2.07576 - 5.91007I$	0
$u = 1.080330 + 0.586452I$ $a = 2.30172 - 0.66834I$ $b = -2.15681 - 1.66870I$	$4.30053 - 8.25445I$	0
$u = 1.080330 - 0.586452I$ $a = 2.30172 + 0.66834I$ $b = -2.15681 + 1.66870I$	$4.30053 + 8.25445I$	0
$u = 1.169410 + 0.384995I$ $a = 0.36891 - 1.39572I$ $b = -1.18116 + 0.86341I$	$-2.52184 + 1.07600I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.169410 - 0.384995I$ $a = 0.36891 + 1.39572I$ $b = -1.18116 - 0.86341I$	$-2.52184 - 1.07600I$	0
$u = -1.096480 + 0.564671I$ $a = -1.317570 + 0.511258I$ $b = 0.728265 - 1.085450I$	$-0.15987 + 6.64038I$	0
$u = -1.096480 - 0.564671I$ $a = -1.317570 - 0.511258I$ $b = 0.728265 + 1.085450I$	$-0.15987 - 6.64038I$	0
$u = -1.156250 + 0.450661I$ $a = 1.72500 - 0.52320I$ $b = -0.61479 + 1.66456I$	$-2.08535 + 9.31159I$	0
$u = -1.156250 - 0.450661I$ $a = 1.72500 + 0.52320I$ $b = -0.61479 - 1.66456I$	$-2.08535 - 9.31159I$	0
$u = 1.103350 + 0.581743I$ $a = 1.78047 - 1.06989I$ $b = -2.32561 - 0.37152I$	$-0.27685 - 11.04150I$	0
$u = 1.103350 - 0.581743I$ $a = 1.78047 + 1.06989I$ $b = -2.32561 + 0.37152I$	$-0.27685 + 11.04150I$	0
$u = -0.055639 + 0.747611I$ $a = -0.219020 - 0.528181I$ $b = -0.662916 - 1.064330I$	$1.12267 - 5.01345I$	$1.50910 + 6.72977I$
$u = -0.055639 - 0.747611I$ $a = -0.219020 + 0.528181I$ $b = -0.662916 + 1.064330I$	$1.12267 + 5.01345I$	$1.50910 - 6.72977I$
$u = 1.122420 + 0.599973I$ $a = -2.78774 + 0.73339I$ $b = 2.40366 + 1.65651I$	$4.3964 - 17.1730I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.122420 - 0.599973I$ $a = -2.78774 - 0.73339I$ $b = 2.40366 - 1.65651I$	$4.3964 + 17.1730I$	0
$u = -1.128570 + 0.611450I$ $a = 1.63288 + 0.43606I$ $b = -1.35747 + 1.10949I$	$3.44557 + 8.83292I$	0
$u = -1.128570 - 0.611450I$ $a = 1.63288 - 0.43606I$ $b = -1.35747 - 1.10949I$	$3.44557 - 8.83292I$	0
$u = 0.075487 + 0.572572I$ $a = 0.631910 - 0.139374I$ $b = 1.047670 + 0.274040I$	$-1.67112 - 1.17907I$	$-4.23336 + 1.76718I$
$u = 0.075487 - 0.572572I$ $a = 0.631910 + 0.139374I$ $b = 1.047670 - 0.274040I$	$-1.67112 + 1.17907I$	$-4.23336 - 1.76718I$
$u = -0.190674 + 0.306614I$ $a = 2.29001 + 1.56288I$ $b = -0.541888 + 1.030790I$	$1.87411 - 0.91268I$	$3.90518 + 0.39794I$
$u = -0.190674 - 0.306614I$ $a = 2.29001 - 1.56288I$ $b = -0.541888 - 1.030790I$	$1.87411 + 0.91268I$	$3.90518 - 0.39794I$

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

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 2 \\ -1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 2 \\ -1 \end{pmatrix}$$

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

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

$$a_8 = \begin{pmatrix} 3 \\ -1 \end{pmatrix}$$

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

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

(ii) Obstruction class = 1

(iii) Cusp Shapes = 0

(iv) u -Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_3 c_4, c_5, c_6 c_7, c_8, c_{10}	$y - 1$
c_9, c_{11}	y

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.00000$		
$a = 2.00000$	0	0
$b = -1.00000$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u - 1)(u^{77} + 2u^{76} + \dots - u + 1)$
c_2	$(u + 1)(u^{77} + 36u^{76} + \dots - u + 1)$
c_3	$(u - 1)(u^{77} - 4u^{76} + \dots - 1931u + 431)$
c_4	$(u - 1)(u^{77} - 2u^{76} + \dots + 22949u + 1393)$
c_5	$(u + 1)(u^{77} + 2u^{76} + \dots - u + 1)$
c_6	$(u + 1)(u^{77} - 22u^{75} + \dots - 44155u + 8353)$
c_7	$(u + 1)(u^{77} + 4u^{76} + \dots + u + 1)$
c_8	$(u + 1)(u^{77} + 2u^{76} + \dots - u + 1)$
c_9	$u(u^{77} - 13u^{76} + \dots + 2u + 2)$
c_{10}	$(u - 1)(u^{77} + 2u^{76} + \dots - u + 1)$
c_{11}	$u(u^{77} + 3u^{76} + \dots + 523u^2 + 32)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y - 1)(y^{77} - 36y^{76} + \dots - y - 1)$
c_2	$(y - 1)(y^{77} + 12y^{76} + \dots - 69y - 1)$
c_3	$(y - 1)(y^{77} - 92y^{76} + \dots + 8518895y - 185761)$
c_4	$(y - 1)(y^{77} - 48y^{76} + \dots + 9.92926 \times 10^7 y - 1940449)$
c_6	$(y - 1)(y^{77} - 44y^{76} + \dots + 6.83600 \times 10^8 y - 6.97726 \times 10^7)$
c_7	$(y - 1)(y^{77} + 12y^{76} + \dots - y - 1)$
c_8, c_{10}	$(y - 1)(y^{77} - 56y^{76} + \dots - 21y - 1)$
c_9	$y(y^{77} + 9y^{76} + \dots - 40y - 4)$
c_{11}	$y(y^{77} + 9y^{76} + \dots - 33472y - 1024)$