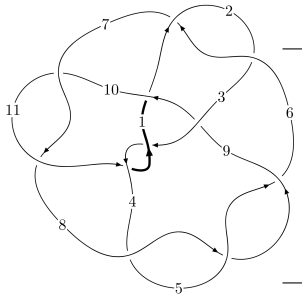
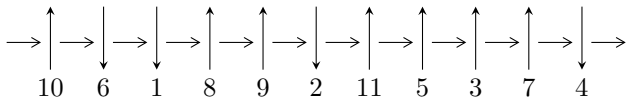
$11a_{330}$ ($K11a_{330}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & -1.12011 \times 10^{74} u^{58} + 2.75629 \times 10^{74} u^{57} + \cdots + 3.44884 \times 10^{73} b - 1.05135 \times 10^{76}, \\
& - 1.49619 \times 10^{76} u^{58} + 3.79895 \times 10^{76} u^{57} + \cdots + 1.62096 \times 10^{75} a - 1.57571 \times 10^{78}, \\
& u^{59} - 3u^{58} + \cdots - 68u - 47 \rangle \\
I_2^u = \langle & u^{13} - u^{12} - 7u^{11} + 8u^{10} + 16u^9 - 22u^8 - 10u^7 + 23u^6 - 7u^5 - 5u^4 + 7u^3 - 3u^2 + b - u + 1, \\
& - u^{14} + 2u^{13} + \cdots + a + 2, \\
& u^{15} - 2u^{14} - 7u^{13} + 16u^{12} + 15u^{11} - 46u^{10} - 3u^9 + 54u^8 - 25u^7 - 16u^6 + 26u^5 - 12u^4 - 6u^3 + 7u^2 - 2u -
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 74 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. $\boldsymbol{I_1^u = \langle -1.12 \times 10^{74} u^{58} + 2.76 \times 10^{74} u^{57} + \cdots + 3.45 \times 10^{73} b - 1.05 \times 10^{76},\ -1.50 \times 10^{76} u^{58} + 3.80 \times 10^{76} u^{57} + \cdots + 1.62 \times 10^{75} a - 1.58 \times 10^{78},\ u^{59} - 3u^{58} + \cdots - 68u - 47 \rangle}$

(i) Arc colorings

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

$$a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} u \\ -u^3 + u \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -u^2 + 1 \\ u^4 - 2u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 9.23031u^{58} - 23.4365u^{57} + \cdots + 3493.41u + 972.086 \\ 3.24779u^{58} - 7.99193u^{57} + \cdots + 1122.55u + 304.842 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 5.98251u^{58} - 15.4445u^{57} + \cdots + 2370.86u + 667.245 \\ 3.24779u^{58} - 7.99193u^{57} + \cdots + 1122.55u + 304.842 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 2.41804u^{58} - 6.03112u^{57} + \cdots + 1112.39u + 331.970 \\ 3.35170u^{58} - 8.54361u^{57} + \cdots + 1242.14u + 331.682 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 5.18004u^{58} - 13.0960u^{57} + \cdots + 2212.35u + 639.499 \\ 2.03204u^{58} - 5.19353u^{57} + \cdots + 732.562u + 188.668 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 3.24999u^{58} - 7.66870u^{57} + \cdots + 1187.04u + 318.226 \\ 2.73447u^{58} - 7.36256u^{57} + \cdots + 1055.99u + 271.177 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.648359u^{58} + 1.03490u^{57} + \cdots + 370.690u + 121.526 \\ 2.37556u^{58} - 5.68960u^{57} + \cdots + 673.282u + 160.207 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.648359u^{58} + 1.03490u^{57} + \cdots + 370.690u + 121.526 \\ 2.37556u^{58} - 5.68960u^{57} + \cdots + 673.282u + 160.207 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -19.2036u^{58} + 48.6512u^{57} + \cdots - 6597.80u - 1810.72$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{59}+8u^{58}+\cdots+7075u+1561$
c_2, c_6	$u^{59}+2u^{58}+\cdots-u+1$
c_3, c_{11}	$u^{59}-3u^{58}+\cdots-44u+1$
c_4, c_5, c_8	$u^{59}-3u^{58}+\cdots-68u-47$
c_7, c_{10}	$u^{59}-30u^{57}+\cdots+331u-19$
c_9	$u^{59}-2u^{58}+\cdots+2319u+2117$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{59} - 28y^{58} + \cdots + 51101495y - 2436721$
c_2, c_6	$y^{59} + 48y^{58} + \cdots + 143y - 1$
c_3, c_{11}	$y^{59} + 51y^{58} + \cdots + 564y - 1$
c_4, c_5, c_8	$y^{59} - 69y^{58} + \cdots + 52564y - 2209$
c_7, c_{10}	$y^{59} - 60y^{58} + \cdots + 84595y - 361$
c_9	$y^{59} - 32y^{58} + \cdots + 164317887y - 4481689$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.663884 + 0.670936I$ $a = -1.15868 + 0.88811I$ $b = -0.33009 + 1.44308I$	$5.56188 + 5.09196I$	0
$u = 0.663884 - 0.670936I$ $a = -1.15868 - 0.88811I$ $b = -0.33009 - 1.44308I$	$5.56188 - 5.09196I$	0
$u = -1.072730 + 0.002898I$ $a = -0.708113 + 0.180531I$ $b = -0.679774 - 0.774687I$	$1.97600 - 2.55273I$	0
$u = -1.072730 - 0.002898I$ $a = -0.708113 - 0.180531I$ $b = -0.679774 + 0.774687I$	$1.97600 + 2.55273I$	0
$u = 0.481157 + 0.783711I$ $a = 0.87764 - 1.18816I$ $b = -0.033355 - 1.312050I$	$4.90675 - 0.17949I$	0
$u = 0.481157 - 0.783711I$ $a = 0.87764 + 1.18816I$ $b = -0.033355 + 1.312050I$	$4.90675 + 0.17949I$	0
$u = 0.912889 + 0.065447I$ $a = 0.654408 + 0.408442I$ $b = -0.109027 - 0.587707I$	$1.58471 + 0.10901I$	0
$u = 0.912889 - 0.065447I$ $a = 0.654408 - 0.408442I$ $b = -0.109027 + 0.587707I$	$1.58471 - 0.10901I$	0
$u = 0.547371 + 0.629034I$ $a = 0.275474 + 0.246041I$ $b = 0.362689 + 1.069460I$	$4.32344 - 1.31427I$	$8.87224 + 0.I$
$u = 0.547371 - 0.629034I$ $a = 0.275474 - 0.246041I$ $b = 0.362689 - 1.069460I$	$4.32344 + 1.31427I$	$8.87224 + 0.I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.655609+0.435361I$ $a=\ 1.52726+0.50194I$ $b=\ 0.899285+0.164244I$	$5.22435-5.58403I$	$7.88408+6.48040I$
$u=-0.655609-0.435361I$ $a=\ 1.52726-0.50194I$ $b=\ 0.899285-0.164244I$	$5.22435+5.58403I$	$7.88408-6.48040I$
$u=\ 0.566889+0.487295I$ $a=\ 1.27041+0.78556I$ $b=\ 0.293328-1.120330I$	$4.51202+5.11815I$	$8.89658-7.24819I$
$u=\ 0.566889-0.487295I$ $a=\ 1.27041-0.78556I$ $b=\ 0.293328+1.120330I$	$4.51202-5.11815I$	$8.89658+7.24819I$
$u=-0.462881+0.565944I$ $a=-0.55152-1.59437I$ $b=\ 0.0819864-0.0135157I$	$4.44971+2.14107I$	$5.59927+1.54259I$
$u=-0.462881-0.565944I$ $a=-0.55152+1.59437I$ $b=\ 0.0819864+0.0135157I$	$4.44971-2.14107I$	$5.59927-1.54259I$
$u=-0.870656+0.926885I$ $a=\ 0.986934+0.667144I$ $b=\ 0.31968+1.41732I$	$10.3757-9.8566I$	0
$u=-0.870656-0.926885I$ $a=\ 0.986934-0.667144I$ $b=\ 0.31968-1.41732I$	$10.3757+9.8566I$	0
$u=\ 0.415938+0.579248I$ $a=\ 0.846887+0.499107I$ $b=\ 0.574644+0.026281I$	$1.35011+1.88524I$	$3.00000-3.83760I$
$u=\ 0.415938-0.579248I$ $a=\ 0.846887-0.499107I$ $b=\ 0.574644-0.026281I$	$1.35011-1.88524I$	$3.00000+3.83760I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.647619+0.225990I$ $a=\ 1.90147+0.85004I$ $b=\ 0.42877+1.41249I$	$9.17648+0.45587I$	$13.79187+0.50236I$
$u=-0.647619-0.225990I$ $a=\ 1.90147-0.85004I$ $b=\ 0.42877-1.41249I$	$9.17648-0.45587I$	$13.79187-0.50236I$
$u=\ 1.31990$ $a=\ 0.0472574$ $b=-0.674808$	2.77979	0
$u=-0.507724+1.289270I$ $a=-0.303043-0.951975I$ $b=\ 0.042705-1.359630I$	$9.00112+2.68298I$	0
$u=-0.507724-1.289270I$ $a=-0.303043+0.951975I$ $b=\ 0.042705+1.359630I$	$9.00112-2.68298I$	0
$u=-1.44030+0.20799I$ $a=\ 0.221441-0.421025I$ $b=\ 0.542037+0.003122I$	$7.30101-4.74836I$	0
$u=-1.44030-0.20799I$ $a=\ 0.221441+0.421025I$ $b=\ 0.542037-0.003122I$	$7.30101+4.74836I$	0
$u=-0.485094+0.213274I$ $a=-3.30156-0.35475I$ $b=\ 0.001691-1.297030I$	$8.58837-2.03485I$	$15.0115+3.6514I$
$u=-0.485094-0.213274I$ $a=-3.30156+0.35475I$ $b=\ 0.001691+1.297030I$	$8.58837+2.03485I$	$15.0115-3.6514I$
$u=-0.486013+0.140699I$ $a=-0.526562+0.989442I$ $b=-0.351844-0.983970I$	$0.77762-2.37468I$	$-0.58026+5.71266I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.486013-0.140699I$ $a=-0.526562-0.989442I$ $b=-0.351844+0.983970I$	$0.77762+2.37468I$	$-0.58026-5.71266I$
$u=-1.50589$ $a=\ \ 0.891008$ $b=\ \ 0.701190$	7.41921	0
$u=\ \ 0.453128$ $a=-2.33221$ $b=-1.18104$	0.221271	19.3560
$u=\ \ 0.452712$ $a=\ \ 1.61649$ $b=\ \ 0.0591731$	0.981228	11.9020
$u=\ \ 1.55236+0.02522I$ $a=-0.133426-0.715380I$ $b=-0.19113+1.40151I$	$7.75920+2.91351I$	0
$u=\ \ 1.55236-0.02522I$ $a=-0.133426+0.715380I$ $b=-0.19113-1.40151I$	$7.75920-2.91351I$	0
$u=\ \ 1.56343+0.06205I$ $a=-1.285730-0.513846I$ $b=-0.270263+1.324280I$	$15.6947+3.0236I$	0
$u=\ \ 1.56343-0.06205I$ $a=-1.285730+0.513846I$ $b=-0.270263-1.324280I$	$15.6947-3.0236I$	0
$u=-1.56748$ $a=-0.881028$ $b=-1.73811$	7.31990	0
$u=-1.57638+0.12949I$ $a=\ \ 0.436873-0.982897I$ $b=\ \ 0.186350+1.361050I$	$11.80620-7.29433I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.57638-0.12949I$ $a=\ \ 0.436873+0.982897I$ $b=\ \ 0.186350-1.361050I$	$11.80620+7.29433I$	0
$u=-1.58483+0.22376I$ $a=\ \ 0.987123-0.209265I$ $b=\ \ 0.273747+1.367090I$	$11.87830-3.53773I$	0
$u=-1.58483-0.22376I$ $a=\ \ 0.987123+0.209265I$ $b=\ \ 0.273747-1.367090I$	$11.87830+3.53773I$	0
$u=\ \ 1.59540+0.14328I$ $a=-0.915820+0.268097I$ $b=-0.698680+0.076811I$	$11.68030+0.45414I$	0
$u=\ \ 1.59540-0.14328I$ $a=-0.915820-0.268097I$ $b=-0.698680-0.076811I$	$11.68030-0.45414I$	0
$u=-0.020007+0.394814I$ $a=-0.649909+1.080940I$ $b=-0.564266+0.401283I$	$-0.96759+1.06374I$	$-3.58491-4.50505I$
$u=-0.020007-0.394814I$ $a=-0.649909-1.080940I$ $b=-0.564266-0.401283I$	$-0.96759-1.06374I$	$-3.58491+4.50505I$
$u=\ \ 1.60361+0.11834I$ $a=\ \ 0.911699+0.052547I$ $b=\ \ 1.42194-0.25243I$	$12.9698+7.5955I$	0
$u=\ \ 1.60361-0.11834I$ $a=\ \ 0.911699-0.052547I$ $b=\ \ 1.42194+0.25243I$	$12.9698-7.5955I$	0
$u=\ \ 1.60729+0.06441I$ $a=\ \ 0.887442+0.078089I$ $b=\ \ 0.81025-1.62623I$	$17.0188+0.6284I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.60729 - 0.06441I$ $a = 0.887442 - 0.078089I$ $b = 0.81025 + 1.62623I$	$17.0188 - 0.6284I$	0
$u = -1.60407 + 0.19460I$ $a = -0.938387 + 0.141608I$ $b = -0.58039 - 1.68597I$	$13.1880 - 8.2730I$	0
$u = -1.60407 - 0.19460I$ $a = -0.938387 - 0.141608I$ $b = -0.58039 + 1.68597I$	$13.1880 + 8.2730I$	0
$u = -1.63522 + 0.16039I$ $a = 0.003749 + 0.275010I$ $b = 0.23042 - 1.41743I$	$12.00310 - 1.72842I$	0
$u = -1.63522 - 0.16039I$ $a = 0.003749 - 0.275010I$ $b = 0.23042 + 1.41743I$	$12.00310 + 1.72842I$	0
$u = 1.68149 + 0.27693I$ $a = 1.006940 + 0.127051I$ $b = 0.53294 - 1.57371I$	$18.8364 + 14.4187I$	0
$u = 1.68149 - 0.27693I$ $a = 1.006940 - 0.127051I$ $b = 0.53294 + 1.57371I$	$18.8364 - 14.4187I$	0
$u = 1.78123 + 0.42255I$ $a = -0.759705 + 0.078407I$ $b = -0.27686 + 1.40310I$	$16.5334 + 4.0342I$	0
$u = 1.78123 - 0.42255I$ $a = -0.759705 - 0.078407I$ $b = -0.27686 - 1.40310I$	$16.5334 - 4.0342I$	0

II.

$\boldsymbol{I_2^u = \langle u^{13}-u^{12}+\cdots+b+1,\ -u^{14}+2u^{13}+\cdots+a+2,\ u^{15}-2u^{14}+\cdots-2u-1\rangle}$

(i) Arc colorings

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

$$a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} u \\ -u^3+u \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -u^2+1 \\ u^4-2u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{14}-2u^{13}+\cdots+6u-2 \\ -u^{13}+u^{12}+\cdots+u-1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^{14}-u^{13}+\cdots+5u-1 \\ -u^{13}+u^{12}+\cdots+u-1 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} u^8-5u^6+u^5+7u^4-3u^3-u^2+2u-1 \\ -u^{13}+u^{12}+\cdots+u-1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} u^8-u^7-5u^6+5u^5+7u^4-7u^3-u^2+2u-2 \\ -u^{14}+9u^{12}+\cdots-2u-2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -u^{14}+2u^{13}+\cdots-5u+2 \\ -u^{14}+u^{13}+\cdots+3u^2-2u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^5-3u^3+2u \\ u^{14}-u^{13}+\cdots+u^2+2u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^5-3u^3+2u \\ u^{14}-u^{13}+\cdots+u^2+2u \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 3u^{14}-7u^{13}-19u^{12}+53u^{11}+30u^{10}-141u^9+29u^8+144u^7-109u^6-21u^5+76u^4-46u^3-2u^2+24u+1$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{15} - 3u^{14} + \cdots + 5u - 1$
c_2	$u^{15} + u^{14} + \cdots - u - 1$
c_3	$u^{15} + 2u^{14} + \cdots + 2u + 1$
c_4, c_5	$u^{15} - 2u^{14} + \cdots - 2u - 1$
c_6	$u^{15} - u^{14} + \cdots - u + 1$
c_7	$u^{15} - 3u^{14} + \cdots + 3u + 1$
c_8	$u^{15} + 2u^{14} + \cdots - 2u + 1$
c_9	$u^{15} - u^{14} + \cdots - 7u - 1$
c_{10}	$u^{15} + 3u^{14} + \cdots + 3u - 1$
c_{11}	$u^{15} - 2u^{14} + \cdots + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{15} - 5y^{14} + \cdots + 13y - 1$
c_2, c_6	$y^{15} + 11y^{14} + \cdots - 23y - 1$
c_3, c_{11}	$y^{15} + 10y^{14} + \cdots - 6y - 1$
c_4, c_5, c_8	$y^{15} - 18y^{14} + \cdots + 18y - 1$
c_7, c_{10}	$y^{15} - 17y^{14} + \cdots + 17y - 1$
c_9	$y^{15} - 5y^{14} + \cdots + 57y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.859236+0.096648I$ $a=-0.290049-0.225922I$ $b=-0.455127+0.900633I$	$1.37447+1.85175I$	$6.24665+0.44232I$
$u=-0.859236-0.096648I$ $a=-0.290049+0.225922I$ $b=-0.455127-0.900633I$	$1.37447-1.85175I$	$6.24665-0.44232I$
$u=\ 0.147449+0.698939I$ $a=\ 0.14152-2.06872I$ $b=\ 0.102496-1.303930I$	$7.44398-1.12715I$	$9.32440+0.18246I$
$u=\ 0.147449-0.698939I$ $a=\ 0.14152+2.06872I$ $b=\ 0.102496+1.303930I$	$7.44398+1.12715I$	$9.32440-0.18246I$
$u=-1.28962$ $a=\ 0.514199$ $b=-0.581197$	3.36193	14.4310
$u=\ 0.488833+0.456106I$ $a=\ 0.60478-1.47650I$ $b=\ 0.258245+0.780965I$	$5.17256-2.76956I$	$12.90399+4.24420I$
$u=\ 0.488833-0.456106I$ $a=\ 0.60478+1.47650I$ $b=\ 0.258245-0.780965I$	$5.17256+2.76956I$	$12.90399-4.24420I$
$u=\ 1.318060+0.189471I$ $a=-0.574725-0.296326I$ $b=\ 0.214298-0.558537I$	$8.33813+5.13031I$	$13.01330-4.52627I$
$u=\ 1.318060-0.189471I$ $a=-0.574725+0.296326I$ $b=\ 0.214298+0.558537I$	$8.33813-5.13031I$	$13.01330+4.52627I$
$u=\ 1.52270$ $a=-0.865968$ $b=-1.27999$	6.18333	5.55830

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 1.54689 + 0.23410I$ $a = -0.914905 - 0.329736I$ $b = -0.15368 + 1.44939I$	$12.76520 + 4.69419I$	$12.91855 - 3.93139I$
$u = \quad 1.54689 - 0.23410I$ $a = -0.914905 + 0.329736I$ $b = -0.15368 - 1.44939I$	$12.76520 - 4.69419I$	$12.91855 + 3.93139I$
$u = -1.62956 + 0.11015I$ $a = \quad 1.018690 - 0.151448I$ $b = \quad 0.429910 + 1.194280I$	$14.4815 - 1.9499I$	$11.70621 + 0.15719I$
$u = -1.62956 - 0.11015I$ $a = \quad 1.018690 + 0.151448I$ $b = \quad 0.429910 - 1.194280I$	$14.4815 + 1.9499I$	$11.70621 - 0.15719I$
$u = -0.257945$ $a = -3.61884$ $b = -0.931093$	-0.131193	-4.21560

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{15}-3u^{14}+\cdots+5u-1)(u^{59}+8u^{58}+\cdots+7075u+1561)$
c_2	$(u^{15}+u^{14}+\cdots-u-1)(u^{59}+2u^{58}+\cdots-u+1)$
c_3	$(u^{15}+2u^{14}+\cdots+2u+1)(u^{59}-3u^{58}+\cdots-44u+1)$
c_4, c_5	$(u^{15}-2u^{14}+\cdots-2u-1)(u^{59}-3u^{58}+\cdots-68u-47)$
c_6	$(u^{15}-u^{14}+\cdots-u+1)(u^{59}+2u^{58}+\cdots-u+1)$
c_7	$(u^{15}-3u^{14}+\cdots+3u+1)(u^{59}-30u^{57}+\cdots+331u-19)$
c_8	$(u^{15}+2u^{14}+\cdots-2u+1)(u^{59}-3u^{58}+\cdots-68u-47)$
c_9	$(u^{15}-u^{14}+\cdots-7u-1)(u^{59}-2u^{58}+\cdots+2319u+2117)$
c_{10}	$(u^{15}+3u^{14}+\cdots+3u-1)(u^{59}-30u^{57}+\cdots+331u-19)$
c_{11}	$(u^{15}-2u^{14}+\cdots+2u-1)(u^{59}-3u^{58}+\cdots-44u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{15}-5y^{14}+\cdots+13y-1)$ $\cdot(y^{59}-28y^{58}+\cdots+51101495y-2436721)$
c_2, c_6	$(y^{15}+11y^{14}+\cdots-23y-1)(y^{59}+48y^{58}+\cdots+143y-1)$
c_3, c_{11}	$(y^{15}+10y^{14}+\cdots-6y-1)(y^{59}+51y^{58}+\cdots+564y-1)$
c_4, c_5, c_8	$(y^{15}-18y^{14}+\cdots+18y-1)(y^{59}-69y^{58}+\cdots+52564y-2209)$
c_7, c_{10}	$(y^{15}-17y^{14}+\cdots+17y-1)(y^{59}-60y^{58}+\cdots+84595y-361)$
c_9	$(y^{15}-5y^{14}+\cdots+57y-1)$ $\cdot(y^{59}-32y^{58}+\cdots+164317887y-4481689)$