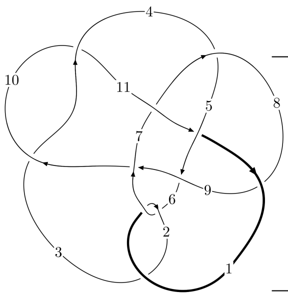
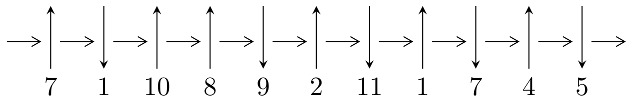
$11n_{130}$ ($K11n_{130}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$5{,}11 \xrightarrow[c_{11}]{} 1{,}8 \xrightarrow[c_8]{} 9 \xrightarrow[c_4]{} 4 \xrightarrow[c_7]{} 7 \xrightarrow[c_1]{} 2 \xrightarrow[c_2]{} 3 \xrightarrow[c_6]{} 6 \xrightarrow[c_{10]}{} 10 \twoheadrightarrow c_3, c_5, c_9$$

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

$$\begin{aligned}
I_1^u &= \langle -2.64498\times 10^{39}u^{36} - 5.83142\times 10^{39}u^{35} + \cdots + 9.36297\times 10^{38}b - 1.79289\times 10^{40}, \\
&\quad 8.32208\times 10^{40}u^{36} + 2.24302\times 10^{41}u^{35} + \cdots + 1.02993\times 10^{40}a + 1.49267\times 10^{42},\ u^{37} + 2u^{36} + \cdots - 8u - 1 \\
I_2^u &= \langle 5u^{10} + 19u^9 + 8u^8 + 9u^7 + 20u^6 + 86u^5 + 142u^4 + 71u^3 - 71u^2 + 67b + 39u + 64, \\
&\quad 5u^{10} - 48u^9 + 8u^8 + 76u^7 - 47u^6 - 249u^5 + 75u^4 + 138u^3 - 4u^2 + 67a - 95u + 131, \\
&\quad u^{11} + u^{10} - u^9 + 7u^7 + 6u^6 - u^5 - u^4 + 5u^3 + 2u^2 - u - 1\rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 48 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. $I^u_1 = \langle -2.64\times10^{39}u^{36} - 5.83\times10^{39}u^{35} + \cdots + 9.36\times10^{38}b - 1.79\times10^{40},\ 8.32\times10^{40}u^{36} + 2.24\times10^{41}u^{35} + \cdots + 1.03\times10^{40}a + 1.49\times10^{42},\ u^{37} + 2u^{36} + \cdots - 8u - 11\rangle$

(i) Arc colorings

$$a_5 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_1 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-8.08027u^{36} - 21.7785u^{35} + \cdots - 344.393u - 144.929\\ 2.82494u^{36} + 6.22818u^{35} + \cdots + 78.1053u + 19.1487\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-1.86142u^{36} - 6.80771u^{35} + \cdots - 132.462u - 63.9835\\ 5.72773u^{36} + 12.8467u^{35} + \cdots + 166.777u + 47.0123\end{pmatrix}$$
$$a_4 = \begin{pmatrix}-14.5710u^{36} - 35.2438u^{35} + \cdots - 475.357u - 170.402\\ -4.84473u^{36} - 12.7993u^{35} + \cdots - 193.507u - 68.6348\end{pmatrix}$$
$$a_7 = \begin{pmatrix}-5.25533u^{36} - 15.5503u^{35} + \cdots - 266.288u - 125.781\\ 2.82494u^{36} + 6.22818u^{35} + \cdots + 78.1053u + 19.1487\end{pmatrix}$$
$$a_2 = \begin{pmatrix}7.55117u^{36} + 20.4537u^{35} + \cdots + 318.954u + 177.930\\ 4.57906u^{36} + 12.5897u^{35} + \cdots + 193.139u + 107.947\end{pmatrix}$$
$$a_3 = \begin{pmatrix}7.22065u^{36} + 17.5684u^{35} + \cdots + 251.689u + 128.847\\ 4.47610u^{36} + 11.7558u^{35} + \cdots + 171.709u + 83.4806\end{pmatrix}$$
$$a_6 = \begin{pmatrix}-9.28201u^{36} - 21.1993u^{35} + \cdots - 266.287u - 108.443\\ 0.126287u^{36} + 2.51101u^{35} + \cdots + 72.2964u + 34.4863\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}2.42894u^{36} + 8.72585u^{35} + \cdots + 164.941u + 113.830\\ 2.47797u^{36} + 5.69993u^{35} + \cdots + 64.9436u + 35.7552\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}2.42894u^{36} + 8.72585u^{35} + \cdots + 164.941u + 113.830\\ 2.47797u^{36} + 5.69993u^{35} + \cdots + 64.9436u + 35.7552\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -28.2238u^{36} - 73.9995u^{35} + \cdots - 1024.01u - 467.975$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_6	$u^{37} + 24u^{35} + \cdots - 4u + 1$
c_2	$u^{37} + 48u^{36} + \cdots + 8u - 1$
c_3, c_{10}	$u^{37} - u^{36} + \cdots + 6u + 1$
c_4	$u^{37} - 3u^{36} + \cdots + 12u + 1$
c_5	$u^{37} - u^{36} + \cdots + 1746u + 367$
c_7	$u^{37} + 4u^{36} + \cdots - 8u + 1$
c_8	$u^{37} + 10u^{35} + \cdots - 75u + 23$
c_9	$u^{37} + 6u^{36} + \cdots - 6703u + 583$
c_{11}	$u^{37} + 2u^{36} + \cdots - 8u - 11$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_6	$y^{37} + 48y^{36} + \cdots + 8y - 1$
c_2	$y^{37} - 112y^{36} + \cdots - 100y - 1$
c_3, c_{10}	$y^{37} - 17y^{36} + \cdots + 22y - 1$
c_4	$y^{37} - 3y^{36} + \cdots + 24y - 1$
c_5	$y^{37} - 53y^{36} + \cdots + 2094316y - 134689$
c_7	$y^{37} + 2y^{36} + \cdots - 56y^2 - 1$
c_8	$y^{37} + 20y^{36} + \cdots - 44975y - 529$
c_9	$y^{37} - 66y^{36} + \cdots + 4068905y - 339889$
c_{11}	$y^{37} - 10y^{36} + \cdots + 2308y - 121$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.601373 + 0.797904I$ $a = 0.100319 - 0.818260I$ $b = -0.125544 + 0.666416I$	$0.33153 + 1.56965I$	$1.84729 - 2.87829I$
$u = -0.601373 - 0.797904I$ $a = 0.100319 + 0.818260I$ $b = -0.125544 - 0.666416I$	$0.33153 - 1.56965I$	$1.84729 + 2.87829I$
$u = -0.756589 + 0.697163I$ $a = 0.048994 - 0.966661I$ $b = -0.592884 + 1.189630I$	$0.52746 + 2.09006I$	$0.36189 - 3.60216I$
$u = -0.756589 - 0.697163I$ $a = 0.048994 + 0.966661I$ $b = -0.592884 - 1.189630I$	$0.52746 - 2.09006I$	$0.36189 + 3.60216I$
$u = 0.746755 + 0.717340I$ $a = 0.24852 - 1.52698I$ $b = 0.832075 + 0.932954I$	$3.60755 - 4.86664I$	$5.83345 + 5.56346I$
$u = 0.746755 - 0.717340I$ $a = 0.24852 + 1.52698I$ $b = 0.832075 - 0.932954I$	$3.60755 + 4.86664I$	$5.83345 - 5.56346I$
$u = -0.850079 + 0.415638I$ $a = 0.200244 + 0.592775I$ $b = -1.43302 - 1.13498I$	$-9.44422 + 4.54412I$	$-2.91144 - 6.06217I$
$u = -0.850079 - 0.415638I$ $a = 0.200244 - 0.592775I$ $b = -1.43302 + 1.13498I$	$-9.44422 - 4.54412I$	$-2.91144 + 6.06217I$
$u = 0.833991 + 0.353566I$ $a = 0.238282 + 1.378690I$ $b = 0.48049 - 1.49168I$	$-9.78588 + 0.61235I$	$-3.21523 + 0.70893I$
$u = 0.833991 - 0.353566I$ $a = 0.238282 - 1.378690I$ $b = 0.48049 + 1.49168I$	$-9.78588 - 0.61235I$	$-3.21523 - 0.70893I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.820454 + 0.302238I$ $a = 0.649750 - 0.760838I$ $b = 0.367432 - 0.280099I$	$-0.44492 + 2.47536I$	$-1.10953 - 5.85952I$
$u = -0.820454 - 0.302238I$ $a = 0.649750 + 0.760838I$ $b = 0.367432 + 0.280099I$	$-0.44492 - 2.47536I$	$-1.10953 + 5.85952I$
$u = -0.709146 + 0.450731I$ $a = -2.09178 - 0.67084I$ $b = -1.020550 + 0.314178I$	$-8.92085 - 1.02999I$	$-3.37249 - 2.08147I$
$u = -0.709146 - 0.450731I$ $a = -2.09178 + 0.67084I$ $b = -1.020550 - 0.314178I$	$-8.92085 + 1.02999I$	$-3.37249 + 2.08147I$
$u = 0.698049 + 0.369328I$ $a = 2.57924 + 1.16241I$ $b = 0.291961 + 0.320467I$	$-9.27666 - 3.59094I$	$-4.07946 + 9.46699I$
$u = 0.698049 - 0.369328I$ $a = 2.57924 - 1.16241I$ $b = 0.291961 - 0.320467I$	$-9.27666 + 3.59094I$	$-4.07946 - 9.46699I$
$u = 0.518070 + 1.102540I$ $a = 0.461824 - 0.300576I$ $b = -0.066504 + 0.656363I$	$1.17632 + 1.49794I$	$4.03696 - 6.33192I$
$u = 0.518070 - 1.102540I$ $a = 0.461824 + 0.300576I$ $b = -0.066504 - 0.656363I$	$1.17632 - 1.49794I$	$4.03696 + 6.33192I$
$u = 1.223990 + 0.280649I$ $a = -0.445468 + 0.076745I$ $b = 0.380103 - 0.218592I$	$2.40459 + 0.03773I$	$9.51019 + 3.78756I$
$u = 1.223990 - 0.280649I$ $a = -0.445468 - 0.076745I$ $b = 0.380103 + 0.218592I$	$2.40459 - 0.03773I$	$9.51019 - 3.78756I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.658844$ $a = -1.02220$ $b = -1.22072$	-2.54226	-10.2460
$u = -0.599605 + 0.263744I$ $a = 0.44406 + 1.78040I$ $b = 0.98175 - 1.24775I$	$1.39846 + 3.05009I$	$-3.20830 - 2.79125I$
$u = -0.599605 - 0.263744I$ $a = 0.44406 - 1.78040I$ $b = 0.98175 + 1.24775I$	$1.39846 - 3.05009I$	$-3.20830 + 2.79125I$
$u = 0.649301 + 0.015184I$ $a = -0.789959 + 0.549138I$ $b = -1.202670 - 0.218143I$	$-2.53052 - 0.01603I$	$-8.01901 - 0.30181I$
$u = 0.649301 - 0.015184I$ $a = -0.789959 - 0.549138I$ $b = -1.202670 + 0.218143I$	$-2.53052 + 0.01603I$	$-8.01901 + 0.30181I$
$u = 1.070020 + 0.832774I$ $a = -0.089943 + 0.968954I$ $b = -1.00403 - 1.22232I$	$-0.20513 - 8.27502I$	$0. + 7.41109I$
$u = 1.070020 - 0.832774I$ $a = -0.089943 - 0.968954I$ $b = -1.00403 + 1.22232I$	$-0.20513 + 8.27502I$	$0. - 7.41109I$
$u = -1.026120 + 0.886327I$ $a = 0.287552 + 1.044070I$ $b = 0.813618 - 0.738930I$	$-0.93685 + 5.16140I$	$0. - 5.99788I$
$u = -1.026120 - 0.886327I$ $a = 0.287552 - 1.044070I$ $b = 0.813618 + 0.738930I$	$-0.93685 - 5.16140I$	$0. + 5.99788I$
$u = -1.23107 + 0.72507I$ $a = 0.147341 + 0.177104I$ $b = 0.605243 - 0.552824I$	$-0.70258 + 2.95006I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.23107 - 0.72507I$ $a = 0.147341 - 0.177104I$ $b = 0.605243 + 0.552824I$	$-0.70258 - 2.95006I$	0
$u = -1.24432 + 0.89792I$ $a = -0.179117 - 1.081050I$ $b = -1.10074 + 1.15043I$	$-9.0036 + 13.3479I$	0
$u = -1.24432 - 0.89792I$ $a = -0.179117 + 1.081050I$ $b = -1.10074 - 1.15043I$	$-9.0036 - 13.3479I$	0
$u = -0.64511 + 1.54806I$ $a = 0.463658 + 0.370863I$ $b = -0.511435 - 0.791669I$	$-6.92057 - 5.26122I$	0
$u = -0.64511 - 1.54806I$ $a = 0.463658 - 0.370863I$ $b = -0.511435 + 0.791669I$	$-6.92057 + 5.26122I$	0
$u = 1.41428 + 1.03844I$ $a = -0.080599 - 0.633894I$ $b = 0.915060 + 0.595859I$	$-12.51050 - 5.12964I$	0
$u = 1.41428 - 1.03844I$ $a = -0.080599 + 0.633894I$ $b = 0.915060 - 0.595859I$	$-12.51050 + 5.12964I$	0

II. $I_2^u = \langle 5u^{10}+19u^9+\cdots+67b+64,\ 5u^{10}-48u^9+\cdots+67a+131,\ u^{11}+u^{10}+\cdots-u-1\rangle$

(i) Arc colorings

$$a_5 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_1 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.0746269u^{10} + 0.716418u^9 + \cdots + 1.41791u - 1.95522 \\ -0.0746269u^{10} - 0.283582u^9 + \cdots - 0.582090u - 0.955224 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.835821u^{10} + 0.776119u^9 + \cdots + 0.119403u - 3.70149 \\ 0.343284u^{10} + 0.104478u^9 + \cdots - 0.522388u - 1.80597 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.47761u^{10} + 0.0149254u^9 + \cdots - 4.07463u - 0.686567 \\ -0.850746u^{10} - 0.432836u^9 + \cdots - 0.835821u + 0.910448 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.149254u^{10} + 0.432836u^9 + \cdots + 0.835821u - 2.91045 \\ -0.0746269u^{10} - 0.283582u^9 + \cdots - 0.582090u - 0.955224 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 2.74627u^{10} + 0.835821u^9 + \cdots - 4.17910u - 2.44776 \\ 0.791045u^{10} - 0.194030u^9 + \cdots - 2.02985u - 0.0746269 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 2.80597u^{10} + 1.46269u^9 + \cdots - 1.31343u - 4.28358 \\ 0.179104u^{10} - 0.119403u^9 + \cdots - 1.40299u + 0.492537 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -1.37313u^{10} - 2.41791u^9 + \cdots - 6.91045u + 4.22388 \\ -0.820896u^{10} - 1.11940u^9 + \cdots - 2.40299u + 1.49254 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.611940u^{10} - 0.0746269u^9 + \cdots - 3.62687u + 2.43284 \\ -0.567164u^{10} + 0.0447761u^9 + \cdots + 0.776119u + 0.940299 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.611940u^{10} - 0.0746269u^9 + \cdots - 3.62687u + 2.43284 \\ -0.567164u^{10} + 0.0447761u^9 + \cdots + 0.776119u + 0.940299 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes
$= \frac{76}{67}u^{10} + \frac{61}{67}u^9 + \frac{68}{67}u^8 - \frac{24}{67}u^7 + \frac{371}{67}u^6 + \frac{731}{67}u^5 + \frac{470}{67}u^4 - \frac{167}{67}u^3 + \frac{569}{67}u^2 + \frac{700}{67}u + \frac{209}{67}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{11}+u^{10}+\cdots+3u+1$
c_2	$u^{11}+11u^{10}+\cdots-3u-1$
c_3	$u^{11}-5u^9-2u^8+11u^7+9u^6-12u^5-15u^4+5u^3+11u^2+u-3$
c_4	$u^{11}-2u^9-3u^8+7u^7+6u^6-3u^5-12u^4+3u^3+6u^2-u-1$
c_5	$u^{11}-3u^9+3u^8-u^7-5u^6+12u^5-15u^4+13u^3-8u^2+3u-1$
c_6	$u^{11}-u^{10}+\cdots+3u-1$
c_7	$u^{11}+u^{10}+u^9-3u^8-u^7-3u^6+2u^5-5u^4-2u^2+u-1$
c_8	$u^{11}-u^{10}+2u^9+3u^8-4u^7+4u^6+5u^5-8u^4+u^3+5u^2-4u-3$
c_9	$u^{11}+7u^{10}+\cdots+8u+1$
c_{10}	$u^{11}-5u^9+2u^8+11u^7-9u^6-12u^5+15u^4+5u^3-11u^2+u+3$
c_{11}	$u^{11}+u^{10}-u^9+7u^7+6u^6-u^5-u^4+5u^3+2u^2-u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_6	$y^{11} + 11y^{10} + \cdots - 3y - 1$
c_2	$y^{11} - 17y^{10} + \cdots + y - 1$
c_3, c_{10}	$y^{11} - 10y^{10} + \cdots + 67y - 9$
c_4	$y^{11} - 4y^{10} + \cdots + 13y - 1$
c_5	$y^{11} - 6y^{10} + \cdots - 7y - 1$
c_7	$y^{11} + y^{10} + \cdots - 3y - 1$
c_8	$y^{11} + 3y^{10} + \cdots + 46y - 9$
c_9	$y^{11} - 7y^{10} + \cdots + 2y - 1$
c_{11}	$y^{11} - 3y^{10} + \cdots + 5y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.575448 + 0.685098I$ $a = -0.28148 - 1.48144I$ $b = 0.594339 + 1.201490I$	$2.53579 - 3.27380I$	$4.40962 + 3.96450I$
$u = 0.575448 - 0.685098I$ $a = -0.28148 + 1.48144I$ $b = 0.594339 - 1.201490I$	$2.53579 + 3.27380I$	$4.40962 - 3.96450I$
$u = -0.931149 + 0.725260I$ $a = 0.483405 + 1.197060I$ $b = 1.05505 - 1.01633I$	$2.26337 + 5.93413I$	$0.97958 - 6.14906I$
$u = -0.931149 - 0.725260I$ $a = 0.483405 - 1.197060I$ $b = 1.05505 + 1.01633I$	$2.26337 - 5.93413I$	$0.97958 + 6.14906I$
$u = -1.132080 + 0.689250I$ $a = -0.322254 - 0.191452I$ $b = 0.468519 + 0.646535I$	$2.10419 - 0.48851I$	$1.91182 + 5.66309I$
$u = -1.132080 - 0.689250I$ $a = -0.322254 + 0.191452I$ $b = 0.468519 - 0.646535I$	$2.10419 + 0.48851I$	$1.91182 - 5.66309I$
$u = -0.470761 + 0.380594I$ $a = -2.42373 + 0.15412I$ $b = -0.537257 - 0.676495I$	$-9.12876 + 2.79567I$	$-1.55052 + 0.06651I$
$u = -0.470761 - 0.380594I$ $a = -2.42373 - 0.15412I$ $b = -0.537257 + 0.676495I$	$-9.12876 - 2.79567I$	$-1.55052 - 0.06651I$
$u = 0.547799$ $a = -1.41244$ $b = -1.39693$	-2.17580	12.3110
$u = 1.18464 + 1.06749I$ $a = -0.249721 + 0.403821I$ $b = -0.382185 - 0.494093I$	$0.02345 - 3.01225I$	$6.59416 + 5.79825I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = \quad 1.18464 - 1.06749I$ $a = -0.249721 - 0.403821I$ $b = -0.382185 + 0.494093I$	$0.02345 + 3.01225I$	$6.59416 - 5.79825I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{11}+u^{10}+\cdots+3u+1)(u^{37}+24u^{35}+\cdots-4u+1)$
c_2	$(u^{11}+11u^{10}+\cdots-3u-1)(u^{37}+48u^{36}+\cdots+8u-1)$
c_3	$(u^{11}-5u^9-2u^8+11u^7+9u^6-12u^5-15u^4+5u^3+11u^2+u-3)$ $\cdot(u^{37}-u^{36}+\cdots+6u+1)$
c_4	$(u^{11}-2u^9-3u^8+7u^7+6u^6-3u^5-12u^4+3u^3+6u^2-u-1)$ $\cdot(u^{37}-3u^{36}+\cdots+12u+1)$
c_5	$(u^{11}-3u^9+3u^8-u^7-5u^6+12u^5-15u^4+13u^3-8u^2+3u-1)$ $\cdot(u^{37}-u^{36}+\cdots+1746u+367)$
c_6	$(u^{11}-u^{10}+\cdots+3u-1)(u^{37}+24u^{35}+\cdots-4u+1)$
c_7	$(u^{11}+u^{10}+u^9-3u^8-u^7-3u^6+2u^5-5u^4-2u^2+u-1)$ $\cdot(u^{37}+4u^{36}+\cdots-8u+1)$
c_8	$(u^{11}-u^{10}+2u^9+3u^8-4u^7+4u^6+5u^5-8u^4+u^3+5u^2-4u-3)$ $\cdot(u^{37}+10u^{35}+\cdots-75u+23)$
c_9	$(u^{11}+7u^{10}+\cdots+8u+1)(u^{37}+6u^{36}+\cdots-6703u+583)$
c_{10}	$(u^{11}-5u^9+2u^8+11u^7-9u^6-12u^5+15u^4+5u^3-11u^2+u+3)$ $\cdot(u^{37}-u^{36}+\cdots+6u+1)$
c_{11}	$(u^{11}+u^{10}-u^9+7u^7+6u^6-u^5-u^4+5u^3+2u^2-u-1)$ $\cdot(u^{37}+2u^{36}+\cdots-8u-11)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_6	$(y^{11} + 11y^{10} + \cdots - 3y - 1)(y^{37} + 48y^{36} + \cdots + 8y - 1)$
c_2	$(y^{11} - 17y^{10} + \cdots + y - 1)(y^{37} - 112y^{36} + \cdots - 100y - 1)$
c_3, c_{10}	$(y^{11} - 10y^{10} + \cdots + 67y - 9)(y^{37} - 17y^{36} + \cdots + 22y - 1)$
c_4	$(y^{11} - 4y^{10} + \cdots + 13y - 1)(y^{37} - 3y^{36} + \cdots + 24y - 1)$
c_5	$(y^{11} - 6y^{10} + \cdots - 7y - 1)(y^{37} - 53y^{36} + \cdots + 2094316y - 134689)$
c_7	$(y^{11} + y^{10} + \cdots - 3y - 1)(y^{37} + 2y^{36} + \cdots - 56y^2 - 1)$
c_8	$(y^{11} + 3y^{10} + \cdots + 46y - 9)(y^{37} + 20y^{36} + \cdots - 44975y - 529)$
c_9	$(y^{11} - 7y^{10} + \cdots + 2y - 1)(y^{37} - 66y^{36} + \cdots + 4068905y - 339889)$
c_{11}	$(y^{11} - 3y^{10} + \cdots + 5y - 1)(y^{37} - 10y^{36} + \cdots + 2308y - 121)$