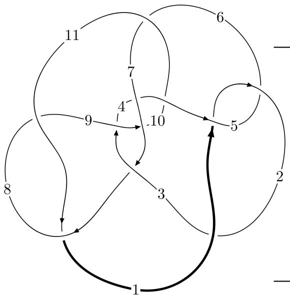
$11n_{93}$ ($K11n_{93}$)



A knot diagram[1]

Linearized knot diagam

$$\begin{array}{ccccccccccccccccccccccc} \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow & \downarrow & \rightarrow \\ & 5 & & 1 & & 9 & & 7 & & 2 & & 11 & & 3 & & 11 & & 7 & & 5 & & 8 & \end{array}$$

Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & -1.36953\times 10^{20}u^{33} - 1.71275\times 10^{20}u^{32} + \cdots + 2.52092\times 10^{19}b + 1.79272\times 10^{20}, \\ & 2.14966\times 10^{20}u^{33} + 2.97471\times 10^{20}u^{32} + \cdots + 2.52092\times 10^{19}a - 2.61593\times 10^{20},\ u^{34} + 2u^{33} + \cdots - 3u - 1 \\ I_2^u = \langle & u^{10} - 3u^8 + u^7 + 5u^6 - u^5 - 5u^4 + 2u^3 + 3u^2 + b - 1, \\ & 3u^{10} + 2u^9 - 9u^8 - 6u^7 + 15u^6 + 13u^5 - 13u^4 - 9u^3 + 6u^2 + a + 5u - 4, \\ & u^{11} + u^{10} - 3u^9 - 3u^8 + 5u^7 + 6u^6 - 4u^5 - 5u^4 + 2u^3 + 3u^2 - u - 1\rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 45 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.

$\boldsymbol{I_1^u = \langle -1.37\times 10^{20}u^{33} - 1.71\times 10^{20}u^{32} + \cdots + 2.52\times 10^{19}b + 1.79\times 10^{20},\ 2.15\times 10^{20}u^{33} + 2.97\times 10^{20}u^{32} + \cdots + 2.52\times 10^{19}a - 2.62\times 10^{20},\ u^{34} + 2u^{33} + \cdots - 3u - 1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_5 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_2 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-u^2+1\\u^2\end{pmatrix}$$
$$a_6 = \begin{pmatrix}-u\\-u^3+u\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-8.52729u^{33} - 11.8001u^{32} + \cdots + 4.46895u + 10.3769\\5.43266u^{33} + 6.79414u^{32} + \cdots - 10.8889u - 7.11138\end{pmatrix}$$
$$a_7 = \begin{pmatrix}-5.44195u^{33} - 7.75886u^{32} + \cdots - 0.159734u + 6.36806\\8.48937u^{33} + 10.7511u^{32} + \cdots - 17.6044u - 11.3972\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0.678159u^{33} + 0.639889u^{32} + \cdots + 4.60728u + 2.39805\\4.96030u^{33} + 6.55238u^{32} + \cdots - 11.3046u - 7.35481\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}0.678159u^{33} + 0.639889u^{32} + \cdots + 4.60728u + 2.39805\\3.98582u^{33} + 5.46449u^{32} + \cdots - 9.83347u - 6.63838\end{pmatrix}$$
$$a_9 = \begin{pmatrix}0.605729u^{33} - 0.505670u^{32} + \cdots - 20.5146u - 2.20921\\-0.341296u^{33} + 0.0744426u^{32} + \cdots + 1.81668u - 0.281935\end{pmatrix}$$
$$a_4 = \begin{pmatrix}4.14625u^{33} + 3.90637u^{32} + \cdots - 34.9982u - 9.83659\\-4.60795u^{33} - 5.18060u^{32} + \cdots + 10.8857u + 5.66173\end{pmatrix}$$
$$a_4 = \begin{pmatrix}4.14625u^{33} + 3.90637u^{32} + \cdots - 34.9982u - 9.83659\\-4.60795u^{33} - 5.18060u^{32} + \cdots + 10.8857u + 5.66173\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -\frac{45272021734023345182}{25209200843466515639}u^{33} - \frac{27918280350195858852}{25209200843466515639}u^{32} + \cdots + \frac{48298084223674941 6852}{25209200843466515639}u - \frac{26807450169897347 1381}{25209200843466515639}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{34} + 2u^{33} + \cdots - 3u - 1$
c_2	$u^{34} + 20u^{33} + \cdots + 23u + 1$
c_3, c_{10}	$u^{34} - u^{33} + \cdots + 10u - 1$
c_4	$u^{34} - 3u^{33} + \cdots + 16u + 1$
c_6	$u^{34} + 2u^{33} + \cdots - 2561u - 1007$
c_7	$u^{34} + u^{33} + \cdots - 36u - 9$
c_8, c_{11}	$u^{34} - 4u^{33} + \cdots + 5u - 7$
c_9	$u^{34} - 2u^{33} + \cdots - 415u + 31$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{34} - 20y^{33} + \cdots - 23y + 1$
c_2	$y^{34} - 4y^{33} + \cdots - 215y + 1$
c_3, c_{10}	$y^{34} - 45y^{33} + \cdots + 54y + 1$
c_4	$y^{34} - 61y^{33} + \cdots + 4y + 1$
c_6	$y^{34} - 48y^{33} + \cdots - 16050703y + 1014049$
c_7	$y^{34} + 11y^{33} + \cdots - 576y + 81$
c_8, c_{11}	$y^{34} + 12y^{33} + \cdots - 375y + 49$
c_9	$y^{34} - 48y^{33} + \cdots - 50333y + 961$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.977418 + 0.219996I$ $a = -0.444506 + 0.228131I$ $b = -1.177060 + 0.358042I$	$-3.42083 - 0.72607I$	$-14.2661 + 6.0469I$
$u = 0.977418 - 0.219996I$ $a = -0.444506 - 0.228131I$ $b = -1.177060 - 0.358042I$	$-3.42083 + 0.72607I$	$-14.2661 - 6.0469I$
$u = 0.573841 + 0.727686I$ $a = 0.107760 + 0.779562I$ $b = 0.238183 - 0.951299I$	$3.89256 - 0.89641I$	$-5.46445 + 2.96652I$
$u = 0.573841 - 0.727686I$ $a = 0.107760 - 0.779562I$ $b = 0.238183 + 0.951299I$	$3.89256 + 0.89641I$	$-5.46445 - 2.96652I$
$u = -1.000090 + 0.396450I$ $a = 0.995356 + 0.586804I$ $b = 0.091298 - 0.895598I$	$-0.300266 + 0.779117I$	$-12.61952 - 0.14976I$
$u = -1.000090 - 0.396450I$ $a = 0.995356 - 0.586804I$ $b = 0.091298 + 0.895598I$	$-0.300266 - 0.779117I$	$-12.61952 + 0.14976I$
$u = -0.878110 + 0.672399I$ $a = 0.639488 + 0.722914I$ $b = -0.282345 - 0.793763I$	$-0.041134 + 0.639337I$	$-11.81438 + 0.98279I$
$u = -0.878110 - 0.672399I$ $a = 0.639488 - 0.722914I$ $b = -0.282345 + 0.793763I$	$-0.041134 - 0.639337I$	$-11.81438 - 0.98279I$
$u = -0.300493 + 1.118760I$ $a = -0.628604 - 1.104010I$ $b = 0.708856 + 1.113100I$	$-5.84181 - 6.21635I$	$-10.71032 + 3.59890I$
$u = -0.300493 - 1.118760I$ $a = -0.628604 + 1.104010I$ $b = 0.708856 - 1.113100I$	$-5.84181 + 6.21635I$	$-10.71032 - 3.59890I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.953057+0.668360I$ $a=-0.53608-1.54146I$ $b=-0.645636+0.835280I$	$-0.43138+4.55558I$	$-13.3660-5.8441I$
$u=-0.953057-0.668360I$ $a=-0.53608+1.54146I$ $b=-0.645636-0.835280I$	$-0.43138-4.55558I$	$-13.3660+5.8441I$
$u=1.031700+0.655009I$ $a=0.830682-0.780653I$ $b=0.594629+0.693125I$	$2.55533-4.41329I$	$-7.45627+1.89093I$
$u=1.031700-0.655009I$ $a=0.830682+0.780653I$ $b=0.594629-0.693125I$	$2.55533+4.41329I$	$-7.45627-1.89093I$
$u=-1.192910+0.280924I$ $a=-0.484338+0.191067I$ $b=-0.644248+0.614710I$	$-0.99260+2.94608I$	$-14.2242-4.1884I$
$u=-1.192910-0.280924I$ $a=-0.484338-0.191067I$ $b=-0.644248-0.614710I$	$-0.99260-2.94608I$	$-14.2242+4.1884I$
$u=1.163230+0.443799I$ $a=0.54848-1.89291I$ $b=0.592978+1.071570I$	$-10.91160-3.58899I$	$-13.7786+3.7180I$
$u=1.163230-0.443799I$ $a=0.54848+1.89291I$ $b=0.592978-1.071570I$	$-10.91160+3.58899I$	$-13.7786-3.7180I$
$u=-0.739045+0.052216I$ $a=-0.93579-1.67559I$ $b=-0.394062+1.339380I$	$1.56826+1.68408I$	$-13.99827-0.91587I$
$u=-0.739045-0.052216I$ $a=-0.93579+1.67559I$ $b=-0.394062-1.339380I$	$1.56826-1.68408I$	$-13.99827+0.91587I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.162070+0.498975I$ $a=-0.258485-0.047341I$ $b=\ \ 1.31485+0.79996I$	$-10.50350+4.65202I$	$-13.9876-3.4886I$
$u=-1.162070-0.498975I$ $a=-0.258485+0.047341I$ $b=\ \ 1.31485-0.79996I$	$-10.50350-4.65202I$	$-13.9876+3.4886I$
$u=\ \ 1.183220+0.495063I$ $a=-0.910271+1.014240I$ $b=-0.63178-1.27610I$	$-0.32497-7.07104I$	$-12.7900+6.5034I$
$u=\ \ 1.183220-0.495063I$ $a=-0.910271-1.014240I$ $b=-0.63178+1.27610I$	$-0.32497+7.07104I$	$-12.7900-6.5034I$
$u=\ \ 0.182031+0.670224I$ $a=\ \ 0.59393-1.62022I$ $b=-0.306134+1.218490I$	$2.61338+2.54071I$	$-8.06134-4.21753I$
$u=\ \ 0.182031-0.670224I$ $a=\ \ 0.59393+1.62022I$ $b=-0.306134-1.218490I$	$2.61338-2.54071I$	$-8.06134+4.21753I$
$u=-0.158687+0.575572I$ $a=\ \ 0.27697+2.86042I$ $b=\ \ 0.950893-0.442875I$	$-7.71465-0.24390I$	$-10.88322-1.02866I$
$u=-0.158687-0.575572I$ $a=\ \ 0.27697-2.86042I$ $b=\ \ 0.950893+0.442875I$	$-7.71465+0.24390I$	$-10.88322+1.02866I$
$u=-1.27133+0.67164I$ $a=\ \ 0.65445+1.29088I$ $b=\ \ 0.91249-1.24105I$	$-8.8655+12.5839I$	$-13.0129-6.3971I$
$u=-1.27133-0.67164I$ $a=\ \ 0.65445-1.29088I$ $b=\ \ 0.91249+1.24105I$	$-8.8655-12.5839I$	$-13.0129+6.3971I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.55789 + 0.27506I$ $a = -0.265249 - 0.006903I$ $b = 0.571671 - 0.692974I$	$-12.18800 + 1.09324I$	$-11.00000 - 4.94776I$
$u = 1.55789 - 0.27506I$ $a = -0.265249 + 0.006903I$ $b = 0.571671 + 0.692974I$	$-12.18800 - 1.09324I$	$-11.00000 + 4.94776I$
$u = -0.331451$ $a = 1.15110$ $b = -0.282626$	-0.627282	-15.7510
$u = 0.304363$ $a = -8.51870$ $b = 0.493445$	-7.76994	-5.58750

II.

$$\boldsymbol{I^u_2 = \langle u^{10} - 3u^8 + \cdots + b - 1,\ 3u^{10} + 2u^9 + \cdots + a - 4,\ u^{11} + u^{10} + \cdots - u - 1\rangle}$$

(i) Arc colorings

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

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

$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^2 + 1 \\ u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -3u^{10} - 2u^9 + 9u^8 + 6u^7 - 15u^6 - 13u^5 + 13u^4 + 9u^3 - 6u^2 - 5u + 4 \\ -u^{10} + 3u^8 - u^7 - 5u^6 + u^5 + 5u^4 - 2u^3 - 3u^2 + 1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -2u^{10} - u^9 + 6u^8 + 3u^7 - 10u^6 - 7u^5 + 9u^4 + 5u^3 - 4u^2 - 4u + 3 \\ -u^{10} + 3u^8 - u^7 - 5u^6 + u^5 + 5u^4 - 3u^3 - 3u^2 + u + 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 2u^{10} + u^9 - 6u^8 - 2u^7 + 10u^6 + 4u^5 - 9u^4 - u^3 + 5u^2 + u - 3 \\ -u^8 - u^7 + 3u^6 + 2u^5 - 5u^4 - 3u^3 + 3u^2 + u - 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2u^{10} + u^9 - 6u^8 - 2u^7 + 10u^6 + 4u^5 - 9u^4 - u^3 + 5u^2 + u - 3 \\ -u^{10} - u^9 + 2u^8 + 2u^7 - 2u^6 - 3u^5 - u^4 + u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -4u^{10} - 2u^9 + \cdots - 6u + 7 \\ -u^{10} - u^9 + 2u^8 + 2u^7 - 2u^6 - 4u^5 - u^4 + 2u^3 + u^2 - 2u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 6u^{10} + 2u^9 - 19u^8 - 5u^7 + 32u^6 + 14u^5 - 31u^4 - 8u^3 + 15u^2 + 7u - 9 \\ 2u^{10} + u^9 - 7u^8 - 2u^7 + 13u^6 + 4u^5 - 13u^4 - 2u^3 + 9u^2 + u - 3 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 6u^{10} + 2u^9 - 19u^8 - 5u^7 + 32u^6 + 14u^5 - 31u^4 - 8u^3 + 15u^2 + 7u - 9 \\ 2u^{10} + u^9 - 7u^8 - 2u^7 + 13u^6 + 4u^5 - 13u^4 - 2u^3 + 9u^2 + u - 3 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes
$= 10u^{10} + 2u^9 - 35u^8 - 4u^7 + 63u^6 + 16u^5 - 67u^4 - 11u^3 + 40u^2 + 11u - 30$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{11}+u^{10}-3u^9-3u^8+5u^7+6u^6-4u^5-5u^4+2u^3+3u^2-u-1$
c_2	$u^{11}+7u^{10}+\cdots+7u+1$
c_3	$u^{11}-6u^9-u^8+14u^7+3u^6-18u^5-4u^4+12u^3+3u^2-4u-1$
c_4	$u^{11}-4u^{10}+\cdots-10u+1$
c_5	$u^{11}-u^{10}-3u^9+3u^8+5u^7-6u^6-4u^5+5u^4+2u^3-3u^2-u+1$
c_6	$u^{11}+u^{10}-u^9+4u^8-4u^7+u^6+4u^5-9u^4+9u^3-7u^2+3u-1$
c_7	$u^{11}+4u^9-u^8+5u^7-3u^6-3u^4-5u^3-2u^2-4u-1$
c_8	$u^{11}-3u^{10}+7u^9-9u^8+9u^7-4u^6-u^5+4u^4-4u^3+u^2-u-1$
c_9	$u^{11}+3u^{10}+u^9+3u^7+u^5-u^4-u^3+2u^2-u+1$
c_{10}	$u^{11}-6u^9+u^8+14u^7-3u^6-18u^5+4u^4+12u^3-3u^2-4u+1$
c_{11}	$u^{11}+3u^{10}+7u^9+9u^8+9u^7+4u^6-u^5-4u^4-4u^3-u^2-u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{11} - 7y^{10} + \cdots + 7y - 1$
c_2	$y^{11} + y^{10} + \cdots + 3y - 1$
c_3, c_{10}	$y^{11} - 12y^{10} + \cdots + 22y - 1$
c_4	$y^{11} - 4y^{10} + \cdots + 16y - 1$
c_6	$y^{11} - 3y^{10} + \cdots - 5y - 1$
c_7	$y^{11} + 8y^{10} + \cdots + 12y - 1$
c_8, c_{11}	$y^{11} + 5y^{10} + \cdots + 3y - 1$
c_9	$y^{11} - 7y^{10} + 7y^9 + 8y^8 + 15y^7 - 10y^6 - 13y^5 - 9y^4 + 3y^3 - 3y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.699469+0.611146I$ $a=\ \ 0.428957+0.652621I$ $b=-0.620153-1.221950I$	$3.01958-0.56743I$	$-9.71824-0.39336I$
$u=-0.699469-0.611146I$ $a=\ \ 0.428957-0.652621I$ $b=-0.620153+1.221950I$	$3.01958+0.56743I$	$-9.71824+0.39336I$
$u=\ \ 0.875804$ $a=-0.670673$ $b=-1.06635$	-3.03217	-10.2530
$u=-1.006850+0.637757I$ $a=-0.820799-1.074540I$ $b=-0.831904+0.975863I$	$2.01933+5.51593I$	$-10.60882-6.86396I$
$u=-1.006850-0.637757I$ $a=-0.820799+1.074540I$ $b=-0.831904-0.975863I$	$2.01933-5.51593I$	$-10.60882+6.86396I$
$u=\ \ 0.626035+0.508829I$ $a=\ \ 0.12930+1.93949I$ $b=-0.138001-1.197500I$	$2.51249-2.42581I$	$-7.49749+5.02500I$
$u=\ \ 0.626035-0.508829I$ $a=\ \ 0.12930-1.93949I$ $b=-0.138001+1.197500I$	$2.51249+2.42581I$	$-7.49749-5.02500I$
$u=\ \ 1.163860+0.576096I$ $a=\ \ 0.961303-0.429407I$ $b=\ \ 0.036813+0.809877I$	$0.66663-2.01787I$	$-8.86455+3.07109I$
$u=\ \ 1.163860-0.576096I$ $a=\ \ 0.961303+0.429407I$ $b=\ \ 0.036813-0.809877I$	$0.66663+2.01787I$	$-8.86455-3.07109I$
$u=-0.580365$ $a=\ \ 4.86388$ $b=\ \ 0.747290$	-8.15261	-27.3410

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -1.46259$ $a = -0.590722$ $b = 0.425554$	-11.8310	-12.0270

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{11}+u^{10}-3u^9-3u^8+5u^7+6u^6-4u^5-5u^4+2u^3+3u^2-u-1)$ $\cdot(u^{34}+2u^{33}+\cdots-3u-1)$
c_2	$(u^{11}+7u^{10}+\cdots+7u+1)(u^{34}+20u^{33}+\cdots+23u+1)$
c_3	$(u^{11}-6u^9-u^8+14u^7+3u^6-18u^5-4u^4+12u^3+3u^2-4u-1)$ $\cdot(u^{34}-u^{33}+\cdots+10u-1)$
c_4	$(u^{11}-4u^{10}+\cdots-10u+1)(u^{34}-3u^{33}+\cdots+16u+1)$
c_5	$(u^{11}-u^{10}-3u^9+3u^8+5u^7-6u^6-4u^5+5u^4+2u^3-3u^2-u+1)$ $\cdot(u^{34}+2u^{33}+\cdots-3u-1)$
c_6	$(u^{11}+u^{10}-u^9+4u^8-4u^7+u^6+4u^5-9u^4+9u^3-7u^2+3u-1)$ $\cdot(u^{34}+2u^{33}+\cdots-2561u-1007)$
c_7	$(u^{11}+4u^9-u^8+5u^7-3u^6-3u^4-5u^3-2u^2-4u-1)$ $\cdot(u^{34}+u^{33}+\cdots-36u-9)$
c_8	$(u^{11}-3u^{10}+7u^9-9u^8+9u^7-4u^6-u^5+4u^4-4u^3+u^2-u-1)$ $\cdot(u^{34}-4u^{33}+\cdots+5u-7)$
c_9	$(u^{11}+3u^{10}+u^9+3u^7+u^5-u^4-u^3+2u^2-u+1)$ $\cdot(u^{34}-2u^{33}+\cdots-415u+31)$
c_{10}	$(u^{11}-6u^9+u^8+14u^7-3u^6-18u^5+4u^4+12u^3-3u^2-4u+1)$ $\cdot(u^{34}-u^{33}+\cdots+10u-1)$
c_{11}	$(u^{11}+3u^{10}+7u^9+9u^8+9u^7+4u^6-u^5-4u^4-4u^3-u^2-u+1)$ $\cdot(u^{34}-4u^{33}+\cdots+5u-7)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{11} - 7y^{10} + \cdots + 7y - 1)(y^{34} - 20y^{33} + \cdots - 23y + 1)$
c_2	$(y^{11} + y^{10} + \cdots + 3y - 1)(y^{34} - 4y^{33} + \cdots - 215y + 1)$
c_3, c_{10}	$(y^{11} - 12y^{10} + \cdots + 22y - 1)(y^{34} - 45y^{33} + \cdots + 54y + 1)$
c_4	$(y^{11} - 4y^{10} + \cdots + 16y - 1)(y^{34} - 61y^{33} + \cdots + 4y + 1)$
c_6	$(y^{11} - 3y^{10} + \cdots - 5y - 1)$ $\cdot (y^{34} - 48y^{33} + \cdots - 16050703y + 1014049)$
c_7	$(y^{11} + 8y^{10} + \cdots + 12y - 1)(y^{34} + 11y^{33} + \cdots - 576y + 81)$
c_8, c_{11}	$(y^{11} + 5y^{10} + \cdots + 3y - 1)(y^{34} + 12y^{33} + \cdots - 375y + 49)$
c_9	$(y^{11} - 7y^{10} + 7y^9 + 8y^8 + 15y^7 - 10y^6 - 13y^5 - 9y^4 + 3y^3 - 3y - 1)$ $\cdot (y^{34} - 48y^{33} + \cdots - 50333y + 961)$