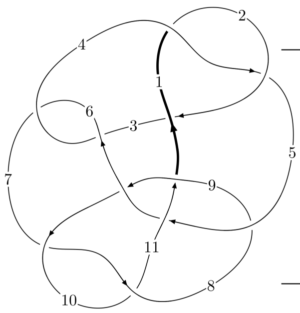
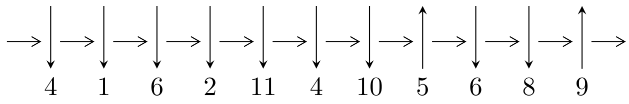
$11n_{35}$ ($K11n_{35}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle 7.64232 \times 10^{39}u^{50} + 4.53219 \times 10^{40}u^{49} + \cdots + 8.75756 \times 10^{39}b + 1.97436 \times 10^{40},$$
$$2.47871 \times 10^{39}u^{50} + 1.88813 \times 10^{40}u^{49} + \cdots + 2.18939 \times 10^{39}a + 1.19965 \times 10^{39},\ u^{51} + 7u^{50} + \cdots - 81u^2 +$$
$$I_2^u = \langle 2a^4 - 9a^3 + 10a^2 + 5b - 11a + 4,\ a^5 - 5a^4 + 6a^3 - 3a^2 + a - 1,\ u - 1\rangle$$
$$I_3^u = \langle b,\ a + 3u + 5,\ u^2 + u - 1\rangle$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 58 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. $\boldsymbol{I_1^u =}$
$\boldsymbol{\langle 7.64\times10^{39}u^{50}+4.53\times10^{40}u^{49}+\cdots+8.76\times10^{39}b+1.97\times10^{40},\ 2.48\times10^{39}u^{50}+ 1.89\times10^{40}u^{49}+\cdots+2.19\times10^{39}a+1.20\times10^{39},\ u^{51}+7u^{50}+\cdots-81u^2+1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_4 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_2 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_5 = \begin{pmatrix}-u\\-u^3+u\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-1.13215u^{50}-8.62401u^{49}+\cdots+75.3242u-0.547939\\-0.872654u^{50}-5.17518u^{49}+\cdots+5.03419u-2.25447\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-1.36430u^{50}-9.37394u^{49}+\cdots+72.3435u+0.0541095\\-2.27233u^{50}-13.7744u^{49}+\cdots+8.24704u-3.73165\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}-2.21621u^{50}-14.3423u^{49}+\cdots+4.63645u-11.0109\\0.0694094u^{50}-0.202698u^{49}+\cdots+9.54759u-1.43747\end{pmatrix}$$
$$a_6 = \begin{pmatrix}-0.109838u^{50}+0.455800u^{49}+\cdots-35.3698u+2.83830\\2.10336u^{50}+11.3955u^{49}+\cdots-4.83182u+1.99352\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-u^2+1\\u^2\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}-2.02006u^{50}-13.1436u^{49}+\cdots+56.6295u-3.02939\\-3.40837u^{50}-22.0852u^{49}+\cdots+10.9393u-5.67809\end{pmatrix}$$
$$a_7 = \begin{pmatrix}0.109838u^{50}-0.455800u^{49}+\cdots+35.3698u-2.83830\\-1.41865u^{50}-6.00756u^{49}+\cdots+4.72198u-0.768857\end{pmatrix}$$
$$a_7 = \begin{pmatrix}0.109838u^{50}-0.455800u^{49}+\cdots+35.3698u-2.83830\\-1.41865u^{50}-6.00756u^{49}+\cdots+4.72198u-0.768857\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 1.81706u^{50}+20.2990u^{49}+\cdots-41.2566u+8.01207$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{51} - 7u^{50} + \cdots + 81u^2 - 1$
c_2	$u^{51} + 23u^{50} + \cdots + 162u + 1$
c_3, c_6	$u^{51} - 2u^{50} + \cdots - 96u - 32$
c_5	$u^{51} - 3u^{50} + \cdots + 2u - 1$
c_7, c_{10}	$u^{51} - 4u^{50} + \cdots - 87u + 1$
c_8	$u^{51} + u^{50} + \cdots - 4u + 31$
c_9	$u^{51} + 5u^{50} + \cdots - 402u - 137$
c_{11}	$u^{51} + 8u^{50} + \cdots + 64u + 4$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{51} - 23y^{50} + \cdots + 162y - 1$
c_2	$y^{51} + 17y^{50} + \cdots + 12790y - 1$
c_3, c_6	$y^{51} + 30y^{50} + \cdots - 8704y - 1024$
c_5	$y^{51} - 15y^{50} + \cdots + 20y - 1$
c_7, c_{10}	$y^{51} - 30y^{50} + \cdots + 6683y - 1$
c_8	$y^{51} + 29y^{50} + \cdots + 22708y - 961$
c_9	$y^{51} + 37y^{50} + \cdots + 211472y - 18769$
c_{11}	$y^{51} - 12y^{50} + \cdots + 1272y - 16$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.923570 + 0.305757I$ $a = 0.416243 + 1.068130I$ $b = -0.620880 - 0.980403I$	$-3.69039 - 2.13393I$	$-15.8264 + 4.5625I$
$u = 0.923570 - 0.305757I$ $a = 0.416243 - 1.068130I$ $b = -0.620880 + 0.980403I$	$-3.69039 + 2.13393I$	$-15.8264 - 4.5625I$
$u = -0.359247 + 0.982542I$ $a = -0.744457 + 0.170926I$ $b = 1.095470 - 0.271570I$	$4.54085 - 1.95941I$	$-3.52747 + 2.51429I$
$u = -0.359247 - 0.982542I$ $a = -0.744457 - 0.170926I$ $b = 1.095470 + 0.271570I$	$4.54085 + 1.95941I$	$-3.52747 - 2.51429I$
$u = -0.872616 + 0.581002I$ $a = 1.29175 - 1.14812I$ $b = -1.88392 - 0.37218I$	$-2.26568 + 2.29719I$	$-12.40272 - 3.03914I$
$u = -0.872616 - 0.581002I$ $a = 1.29175 + 1.14812I$ $b = -1.88392 + 0.37218I$	$-2.26568 - 2.29719I$	$-12.40272 + 3.03914I$
$u = -0.788139 + 0.707702I$ $a = -0.54082 + 1.43941I$ $b = 0.259903 + 0.709097I$	$1.43007 + 1.84298I$	$-7.00000 - 8.98031I$
$u = -0.788139 - 0.707702I$ $a = -0.54082 - 1.43941I$ $b = 0.259903 - 0.709097I$	$1.43007 - 1.84298I$	$-7.00000 + 8.98031I$
$u = 0.744937 + 0.557874I$ $a = -1.79438 + 0.06696I$ $b = 1.049410 - 0.670680I$	$0.62734 - 3.24727I$	$-5.87868 + 5.45997I$
$u = 0.744937 - 0.557874I$ $a = -1.79438 - 0.06696I$ $b = 1.049410 + 0.670680I$	$0.62734 + 3.24727I$	$-5.87868 - 5.45997I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.073300 + 0.130259I$ $a = 2.73037 + 1.97243I$ $b = -0.752137 + 0.540476I$	$-4.21875 + 0.45905I$	$-12.7704 - 7.0072I$
$u = 1.073300 - 0.130259I$ $a = 2.73037 - 1.97243I$ $b = -0.752137 - 0.540476I$	$-4.21875 - 0.45905I$	$-12.7704 + 7.0072I$
$u = -0.665417 + 0.633317I$ $a = 1.341350 - 0.037908I$ $b = -0.20863 - 1.70015I$	$0.08535 - 1.42859I$	$-8.20291 + 2.86015I$
$u = -0.665417 - 0.633317I$ $a = 1.341350 + 0.037908I$ $b = -0.20863 + 1.70015I$	$0.08535 + 1.42859I$	$-8.20291 - 2.86015I$
$u = -0.603362 + 0.919845I$ $a = -0.955773 + 0.890743I$ $b = 1.53585 - 0.75787I$	$6.12236 - 2.89222I$	$-7.00000 + 0.I$
$u = -0.603362 - 0.919845I$ $a = -0.955773 - 0.890743I$ $b = 1.53585 + 0.75787I$	$6.12236 + 2.89222I$	$-7.00000 + 0.I$
$u = 0.709519 + 0.862840I$ $a = 0.751349 + 0.774960I$ $b = -0.855985 - 0.416787I$	$-1.46329 + 2.48395I$	0
$u = 0.709519 - 0.862840I$ $a = 0.751349 - 0.774960I$ $b = -0.855985 + 0.416787I$	$-1.46329 - 2.48395I$	0
$u = -0.923670 + 0.689242I$ $a = -0.789827 - 1.033600I$ $b = 0.495586 - 0.521010I$	$1.01385 + 3.52246I$	0
$u = -0.923670 - 0.689242I$ $a = -0.789827 + 1.033600I$ $b = 0.495586 + 0.521010I$	$1.01385 - 3.52246I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.437529+1.071430I$ $a=\ \ 1.073640-0.605444I$ $b=-1.30783+0.82877I$	$3.27749-9.36362I$	0
$u=-0.437529-1.071430I$ $a=\ \ 1.073640+0.605444I$ $b=-1.30783-0.82877I$	$3.27749+9.36362I$	0
$u=-0.834183+0.022964I$ $a=-0.240873+0.744504I$ $b=-0.447898+1.297840I$	$-7.16136-4.34566I$	$0.37647+1.57270I$
$u=-0.834183-0.022964I$ $a=-0.240873-0.744504I$ $b=-0.447898-1.297840I$	$-7.16136+4.34566I$	$0.37647-1.57270I$
$u=\ \ 1.051020+0.519122I$ $a=-0.212768-0.967576I$ $b=\ \ 0.806427+0.022325I$	$-0.294650-1.061440I$	0
$u=\ \ 1.051020-0.519122I$ $a=-0.212768+0.967576I$ $b=\ \ 0.806427-0.022325I$	$-0.294650+1.061440I$	0
$u=-0.993259+0.639230I$ $a=-0.579456-0.533405I$ $b=-0.83461+1.79554I$	$-0.91339+6.46505I$	0
$u=-0.993259-0.639230I$ $a=-0.579456+0.533405I$ $b=-0.83461-1.79554I$	$-0.91339-6.46505I$	0
$u=\ \ 1.222940+0.084782I$ $a=\ \ 0.687532-0.411301I$ $b=\ \ 0.715736-0.439898I$	$-1.13007-1.28368I$	0
$u=\ \ 1.222940-0.084782I$ $a=\ \ 0.687532+0.411301I$ $b=\ \ 0.715736+0.439898I$	$-1.13007+1.28368I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.719478 + 1.003150I$ $a = 0.872802 - 0.173176I$ $b = -1.015780 + 0.052361I$	$5.28316 + 2.70789I$	0
$u = -0.719478 - 1.003150I$ $a = 0.872802 + 0.173176I$ $b = -1.015780 - 0.052361I$	$5.28316 - 2.70789I$	0
$u = 0.990585 + 0.737126I$ $a = 1.46798 + 0.33121I$ $b = -1.072350 + 0.755687I$	$-2.32039 - 8.39966I$	0
$u = 0.990585 - 0.737126I$ $a = 1.46798 - 0.33121I$ $b = -1.072350 - 0.755687I$	$-2.32039 + 8.39966I$	0
$u = 0.742417 + 0.124155I$ $a = 2.43511 + 6.15388I$ $b = -0.012912 + 0.273501I$	$-2.64938 - 0.11132I$	$-58.9394 + 3.8883I$
$u = 0.742417 - 0.124155I$ $a = 2.43511 - 6.15388I$ $b = -0.012912 - 0.273501I$	$-2.64938 + 0.11132I$	$-58.9394 - 3.8883I$
$u = -1.086370 + 0.734156I$ $a = -1.44695 + 0.84504I$ $b = 1.53144 + 1.12477I$	$4.63878 + 8.97661I$	0
$u = -1.086370 - 0.734156I$ $a = -1.44695 - 0.84504I$ $b = 1.53144 - 1.12477I$	$4.63878 - 8.97661I$	0
$u = -1.035770 + 0.809017I$ $a = 0.932196 - 0.624404I$ $b = -0.826302 - 0.379791I$	$4.27954 + 3.84215I$	0
$u = -1.035770 - 0.809017I$ $a = 0.932196 + 0.624404I$ $b = -0.826302 + 0.379791I$	$4.27954 - 3.84215I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.650449$ $a = 1.17006$ $b = -0.110617$	-1.00288	-10.0670
$u = -1.227370 + 0.667999I$ $a = -0.663202 + 0.675600I$ $b = 0.918945 + 0.630687I$	$1.87901 + 7.98783I$	0
$u = -1.227370 - 0.667999I$ $a = -0.663202 - 0.675600I$ $b = 0.918945 - 0.630687I$	$1.87901 - 7.98783I$	0
$u = -1.213470 + 0.718395I$ $a = 1.34702 - 0.86109I$ $b = -1.31215 - 1.04774I$	$0.8642 + 15.7945I$	0
$u = -1.213470 - 0.718395I$ $a = 1.34702 + 0.86109I$ $b = -1.31215 + 1.04774I$	$0.8642 - 15.7945I$	0
$u = 1.46886 + 0.10563I$ $a = -0.173747 - 0.050346I$ $b = -0.921422 - 0.643101I$	$-3.74009 + 5.32281I$	0
$u = 1.46886 - 0.10563I$ $a = -0.173747 + 0.050346I$ $b = -0.921422 + 0.643101I$	$-3.74009 - 5.32281I$	0
$u = -1.64237$ $a = 0.00866580$ $b = -0.265959$	-10.4502	0
$u = -0.218706 + 0.056088I$ $a = 2.35076 - 2.94041I$ $b = 0.149528 - 0.895127I$	$-0.61038 - 1.48999I$	$-4.46560 + 4.54978I$
$u = -0.218706 - 0.056088I$ $a = 2.35076 + 2.94041I$ $b = 0.149528 + 0.895127I$	$-0.61038 + 1.48999I$	$-4.46560 - 4.54978I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.0948151$ $a = 11.7096$ $b = -0.594393$	-2.29513	-1.15090

II. $\boldsymbol{I_2^u = \langle 2a^4 - 9a^3 + 10a^2 + 5b - 11a + 4,\ a^5 - 5a^4 + 6a^3 - 3a^2 + a - 1,\ u - 1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} a \\ -\frac{2}{5}a^4 + \frac{9}{5}a^3 + \cdots + \frac{11}{5}a - \frac{4}{5} \end{pmatrix}$$
$$a_8 = \begin{pmatrix} \frac{2}{5}a^4 - \frac{9}{5}a^3 + 2a^2 - \frac{6}{5}a + \frac{4}{5} \\ -\frac{2}{5}a^4 + \frac{9}{5}a^3 + \cdots + \frac{11}{5}a - \frac{4}{5} \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -\frac{1}{5}a^4 + \frac{2}{5}a^3 + a^2 - \frac{2}{5}a + \frac{3}{5} \\ \frac{1}{5}a^4 - \frac{7}{5}a^3 + 3a^2 - \frac{8}{5}a - \frac{3}{5} \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 0 \\ \frac{2}{5}a^4 - \frac{14}{5}a^3 + \cdots - \frac{21}{5}a + \frac{4}{5} \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} a \\ \frac{2}{5}a^4 - \frac{14}{5}a^3 + \cdots - \frac{21}{5}a + \frac{4}{5} \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0 \\ \frac{2}{5}a^4 - \frac{14}{5}a^3 + \cdots - \frac{21}{5}a + \frac{4}{5} \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0 \\ \frac{2}{5}a^4 - \frac{14}{5}a^3 + \cdots - \frac{21}{5}a + \frac{4}{5} \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{17}{5}a^4 - \frac{64}{5}a^3 + 2a^2 + \frac{39}{5}a - \frac{96}{5}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u-1)^5$
c_2, c_4	$(u+1)^5$
c_3, c_6	u^5
c_5	$u^5 - 3u^4 + 4u^3 - u^2 - u + 1$
c_7	$u^5 + u^4 - 2u^3 - u^2 + u - 1$
c_8, c_{11}	$u^5 + u^4 + 2u^3 + u^2 + u + 1$
c_9, c_{10}	$u^5 - u^4 - 2u^3 + u^2 + u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4	$(y-1)^5$
c_3, c_6	y^5
c_5	$y^5 - y^4 + 8y^3 - 3y^2 + 3y - 1$
c_7, c_9, c_{10}	$y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1$
c_8, c_{11}	$y^5 + 3y^4 + 4y^3 + y^2 - y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.00000$ $a = 0.881366 + 0.489365I$ $b = 0.339110 + 0.822375I$	$-1.97403 + 1.53058I$	$-13.4575 - 4.4032I$
$u = 1.00000$ $a = 0.881366 - 0.489365I$ $b = 0.339110 - 0.822375I$	$-1.97403 - 1.53058I$	$-13.4575 + 4.4032I$
$u = 1.00000$ $a = -0.142272 + 0.509071I$ $b = -0.455697 + 1.200150I$	$-7.51750 - 4.40083I$	$-22.0438 + 5.2094I$
$u = 1.00000$ $a = -0.142272 - 0.509071I$ $b = -0.455697 - 1.200150I$	$-7.51750 + 4.40083I$	$-22.0438 - 5.2094I$
$u = 1.00000$ $a = 3.52181$ $b = -0.766826$	-4.04602	-2.99730

III. $I_3^u = \langle b,\ a+3u+5,\ u^2+u-1\rangle$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ -u+1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -u \\ -u+1 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -3u-5 \\ 0 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -2u-4 \\ -1 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} -1 \\ -u+1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} u \\ -u+1 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -2u-3 \\ -1 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -61$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_4 c_6	$y^2 - 3y + 1$
c_2, c_5, c_8 c_9	$y^2 - 7y + 1$
c_7, c_{10}	$(y-1)^2$
c_{11}	y^2

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.618034$ $a = -6.85410$ $b = 0$	-2.63189	-61.0000
$u = -1.61803$ $a = -0.145898$ $b = 0$	-10.5276	-61.0000

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^5)(u^2+u-1)(u^{51}-7u^{50}+\cdots+81u^2-1)$
c_2	$((u+1)^5)(u^2+3u+1)(u^{51}+23u^{50}+\cdots+162u+1)$
c_3	$u^5(u^2+u-1)(u^{51}-2u^{50}+\cdots-96u-32)$
c_4	$((u+1)^5)(u^2-u-1)(u^{51}-7u^{50}+\cdots+81u^2-1)$
c_5	$(u^2+3u+1)(u^5-3u^4+\cdots-u+1)(u^{51}-3u^{50}+\cdots+2u-1)$
c_6	$u^5(u^2-u-1)(u^{51}-2u^{50}+\cdots-96u-32)$
c_7	$((u-1)^2)(u^5+u^4+\cdots+u-1)(u^{51}-4u^{50}+\cdots-87u+1)$
c_8	$(u^2+3u+1)(u^5+u^4+\cdots+u+1)(u^{51}+u^{50}+\cdots-4u+31)$
c_9	$(u^2+3u+1)(u^5-u^4+\cdots+u+1)(u^{51}+5u^{50}+\cdots-402u-137)$
c_{10}	$((u+1)^2)(u^5-u^4+\cdots+u+1)(u^{51}-4u^{50}+\cdots-87u+1)$
c_{11}	$u^2(u^5+u^4+\cdots+u+1)(u^{51}+8u^{50}+\cdots+64u+4)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$((y-1)^5)(y^2-3y+1)(y^{51}-23y^{50}+\cdots+162y-1)$
c_2	$((y-1)^5)(y^2-7y+1)(y^{51}+17y^{50}+\cdots+12790y-1)$
c_3, c_6	$y^5(y^2-3y+1)(y^{51}+30y^{50}+\cdots-8704y-1024)$
c_5	$(y^2-7y+1)(y^5-y^4+\cdots+3y-1)(y^{51}-15y^{50}+\cdots+20y-1)$
c_7, c_{10}	$((y-1)^2)(y^5-5y^4+\cdots-y-1)(y^{51}-30y^{50}+\cdots+6683y-1)$
c_8	$(y^2-7y+1)(y^5+3y^4+4y^3+y^2-y-1)$ $\cdot(y^{51}+29y^{50}+\cdots+22708y-961)$
c_9	$(y^2-7y+1)(y^5-5y^4+8y^3-3y^2-y-1)$ $\cdot(y^{51}+37y^{50}+\cdots+211472y-18769)$
c_{11}	$y^2(y^5+3y^4+\cdots-y-1)(y^{51}-12y^{50}+\cdots+1272y-16)$