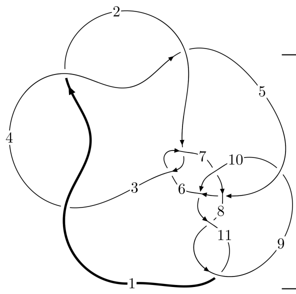
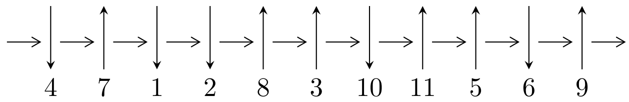
$11a_{253}$ ($K11a_{253}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & -3.29827 \times 10^{242} u^{70} - 3.85213 \times 10^{243} u^{69} + \cdots + 1.61478 \times 10^{243} b - 8.28511 \times 10^{242}, \\
& -1.44895 \times 10^{243} u^{70} - 1.68032 \times 10^{244} u^{69} + \cdots + 1.61478 \times 10^{243} a + 5.61105 \times 10^{243}, \\
& u^{71} + 12u^{70} + \cdots + 2u + 1 \rangle \\
I_2^u = \langle & b,\ -u^4 - u^3 - 3u^2 + a - u - 2,\ u^5 + u^4 + 2u^3 + u^2 + u + 1 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 76 representations.

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[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. $\boldsymbol{I_1^u = \langle -3.30\times 10^{242}u^{70} - 3.85\times 10^{243}u^{69} + \cdots + 1.61\times 10^{243}b - 8.29\times 10^{242},\ -1.45\times 10^{243}u^{70} - 1.68\times 10^{244}u^{69} + \cdots + 1.61\times 10^{243}a + 5.61\times 10^{243},\ u^{71} + 12u^{70} + \cdots + 2u + 1\rangle}$

(i) Arc colorings

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.897301u^{70} + 10.4058u^{69} + \cdots - 15.1406u - 3.47480 \\ 0.204255u^{70} + 2.38554u^{69} + \cdots - 0.797246u + 0.513078 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.693047u^{70} + 8.02030u^{69} + \cdots - 14.3434u - 3.98788 \\ 0.204255u^{70} + 2.38554u^{69} + \cdots - 0.797246u + 0.513078 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.991671u^{70} + 11.2338u^{69} + \cdots - 0.635568u + 2.82255 \\ 0.150636u^{70} + 1.87103u^{69} + \cdots - 0.311046u + 0.838335 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -3.05511u^{70} - 38.0827u^{69} + \cdots - 14.2425u + 2.92815 \\ -0.251356u^{70} - 2.91652u^{69} + \cdots + 4.21504u + 0.652989 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.976661u^{70} + 11.0121u^{69} + \cdots + 0.0163988u + 2.65051 \\ 0.218015u^{70} + 2.64923u^{69} + \cdots - 0.212886u + 0.879910 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.0842423u^{70} + 1.02322u^{69} + \cdots + 9.62101u + 4.52032 \\ -0.0463985u^{70} - 0.516278u^{69} + \cdots + 0.435416u - 0.111771 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.658958u^{70} + 7.79572u^{69} + \cdots - 9.48146u - 0.610030 \\ 0.0463985u^{70} + 0.516278u^{69} + \cdots - 0.435416u + 0.111771 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -3.25923u^{70} - 40.5525u^{69} + \cdots - 9.10450u + 3.81600 \\ 0.136311u^{70} + 1.50077u^{69} + \cdots + 4.68772u + 1.32234 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -3.25923u^{70} - 40.5525u^{69} + \cdots - 9.10450u + 3.81600 \\ 0.136311u^{70} + 1.50077u^{69} + \cdots + 4.68772u + 1.32234 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 4.88170u^{70} + 58.5557u^{69} + \cdots + 35.4740u + 5.13891$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_4	$u^{71} - 6u^{70} + \cdots + 8u - 1$
c_2, c_6	$u^{71} - u^{70} + \cdots + 160u - 32$
c_5	$u^{71} + 6u^{70} + \cdots + 2u + 1$
c_7	$u^{71} - 12u^{70} + \cdots + 2u - 1$
c_8, c_{11}	$u^{71} + 2u^{70} + \cdots - 10u - 1$
c_9	$u^{71} - 2u^{70} + \cdots + 1044u + 216$
c_{10}	$u^{71} + 2u^{70} + \cdots - 26u - 71$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_4	$y^{71} - 64y^{70} + \cdots + 192y - 1$
c_2, c_6	$y^{71} + 33y^{70} + \cdots - 4608y - 1024$
c_5	$y^{71} - 12y^{70} + \cdots + 6y - 1$
c_7	$y^{71} + 60y^{69} + \cdots + 10y - 1$
c_8, c_{11}	$y^{71} - 48y^{70} + \cdots + 10y - 1$
c_9	$y^{71} + 48y^{70} + \cdots + 5221584y - 46656$
c_{10}	$y^{71} + 72y^{70} + \cdots - 272958y - 5041$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.703699 + 0.689890I$ $a = -0.550820 - 1.011170I$ $b = 0.82605 - 1.20952I$	$-3.47932 - 8.87997I$	0
$u = 0.703699 - 0.689890I$ $a = -0.550820 + 1.011170I$ $b = 0.82605 + 1.20952I$	$-3.47932 + 8.87997I$	0
$u = -0.864632 + 0.681430I$ $a = 0.08127 + 1.69538I$ $b = -0.422840 + 0.530363I$	$1.050550 - 0.525213I$	0
$u = -0.864632 - 0.681430I$ $a = 0.08127 - 1.69538I$ $b = -0.422840 - 0.530363I$	$1.050550 + 0.525213I$	0
$u = -0.370753 + 0.796394I$ $a = -0.1158600 - 0.0717373I$ $b = -0.967998 - 0.212799I$	$4.87893 + 2.71275I$	$9.31371 + 0.I$
$u = -0.370753 - 0.796394I$ $a = -0.1158600 + 0.0717373I$ $b = -0.967998 + 0.212799I$	$4.87893 - 2.71275I$	$9.31371 + 0.I$
$u = -1.083660 + 0.393419I$ $a = -0.02862 + 1.47352I$ $b = 0.15556 + 1.52316I$	$-8.97886 + 5.87062I$	0
$u = -1.083660 - 0.393419I$ $a = -0.02862 - 1.47352I$ $b = 0.15556 - 1.52316I$	$-8.97886 - 5.87062I$	0
$u = -0.624551 + 0.490472I$ $a = -1.12224 + 1.61022I$ $b = 0.563000 + 1.270970I$	$-6.53398 + 5.54394I$	$-4.50504 - 1.63762I$
$u = -0.624551 - 0.490472I$ $a = -1.12224 - 1.61022I$ $b = 0.563000 - 1.270970I$	$-6.53398 - 5.54394I$	$-4.50504 + 1.63762I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.092610 + 0.777088I$ $a = -0.51735 + 1.37351I$ $b = 0.371326 - 1.151650I$	$-4.63878 - 3.29846I$	$-3.31669 + 7.32300I$
$u = 0.092610 - 0.777088I$ $a = -0.51735 - 1.37351I$ $b = 0.371326 + 1.151650I$	$-4.63878 + 3.29846I$	$-3.31669 - 7.32300I$
$u = 0.626178 + 1.068960I$ $a = -0.272089 + 0.134473I$ $b = 0.555330 + 0.426705I$	$0.63691 - 2.06340I$	0
$u = 0.626178 - 1.068960I$ $a = -0.272089 - 0.134473I$ $b = 0.555330 - 0.426705I$	$0.63691 + 2.06340I$	0
$u = 0.999301 + 0.777975I$ $a = 0.28606 + 1.72412I$ $b = -0.182154 + 0.954080I$	$-2.76633 - 1.81907I$	0
$u = 0.999301 - 0.777975I$ $a = 0.28606 - 1.72412I$ $b = -0.182154 - 0.954080I$	$-2.76633 + 1.81907I$	0
$u = -0.799531 + 1.024210I$ $a = 0.0939270 - 0.0308360I$ $b = 0.919240 - 0.397727I$	$5.39522 + 6.50016I$	0
$u = -0.799531 - 1.024210I$ $a = 0.0939270 + 0.0308360I$ $b = 0.919240 + 0.397727I$	$5.39522 - 6.50016I$	0
$u = 0.563894 + 0.367730I$ $a = 3.33218 + 0.28298I$ $b = 0.497375 + 1.156290I$	$-3.73969 + 4.87336I$	$-11.68238 + 4.88288I$
$u = 0.563894 - 0.367730I$ $a = 3.33218 - 0.28298I$ $b = 0.497375 - 1.156290I$	$-3.73969 - 4.87336I$	$-11.68238 - 4.88288I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.977884 + 0.899474I$ $a = 0.50460 - 1.61337I$ $b = -0.434959 - 1.171370I$	$0.83262 + 6.84654I$	0
$u = -0.977884 - 0.899474I$ $a = 0.50460 + 1.61337I$ $b = -0.434959 + 1.171370I$	$0.83262 - 6.84654I$	0
$u = 0.466586 + 0.449196I$ $a = 0.441513 + 1.091590I$ $b = -0.78926 + 1.18254I$	$1.70771 - 3.92061I$	$2.90621 + 12.12775I$
$u = 0.466586 - 0.449196I$ $a = 0.441513 - 1.091590I$ $b = -0.78926 - 1.18254I$	$1.70771 + 3.92061I$	$2.90621 - 12.12775I$
$u = -0.647071$ $a = -1.79610$ $b = -0.259845$	2.31401	2.89560
$u = 0.107050 + 0.611923I$ $a = -0.276683 - 0.818069I$ $b = -0.363096 + 0.475061I$	$0.638942 - 1.236310I$	$4.36186 + 4.95807I$
$u = 0.107050 - 0.611923I$ $a = -0.276683 + 0.818069I$ $b = -0.363096 - 0.475061I$	$0.638942 + 1.236310I$	$4.36186 - 4.95807I$
$u = -0.794700 + 1.129040I$ $a = 1.12598 - 1.24645I$ $b = -0.782344 - 0.411126I$	$0.57965 - 2.48080I$	0
$u = -0.794700 - 1.129040I$ $a = 1.12598 + 1.24645I$ $b = -0.782344 + 0.411126I$	$0.57965 + 2.48080I$	0
$u = -0.532056 + 0.272808I$ $a = -0.08049 - 1.71128I$ $b = 0.091987 - 1.395920I$	$-0.50220 + 3.12016I$	$-4.96274 - 11.92067I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.532056-0.272808I$ $a=-0.08049+1.71128I$ $b=\ 0.091987+1.395920I$	$-0.50220-3.12016I$	$-4.96274+11.92067I$
$u=-0.44936+1.35350I$ $a=-0.0265873+0.0488917I$ $b=-0.040910+0.635562I$	$3.76322+4.31820I$	0
$u=-0.44936-1.35350I$ $a=-0.0265873-0.0488917I$ $b=-0.040910-0.635562I$	$3.76322-4.31820I$	0
$u=\ 1.39070+0.32345I$ $a=\ 0.116842-1.177400I$ $b=-0.116001-1.363920I$	$-10.36010-0.43943I$	0
$u=\ 1.39070-0.32345I$ $a=\ 0.116842+1.177400I$ $b=-0.116001+1.363920I$	$-10.36010+0.43943I$	0
$u=-0.071807+0.562576I$ $a=-2.05309-1.70487I$ $b=-0.158109+0.674265I$	$0.733207-1.164170I$	$5.75824+3.22185I$
$u=-0.071807-0.562576I$ $a=-2.05309+1.70487I$ $b=-0.158109-0.674265I$	$0.733207+1.164170I$	$5.75824-3.22185I$
$u=-1.06557+0.95974I$ $a=-0.1048880+0.0619005I$ $b=-1.204060+0.543396I$	$-0.14862+9.86900I$	0
$u=-1.06557-0.95974I$ $a=-0.1048880-0.0619005I$ $b=-1.204060-0.543396I$	$-0.14862-9.86900I$	0
$u=\ 0.484399+0.253838I$ $a=-1.69079+1.46053I$ $b=\ 0.384908+0.642002I$	$-2.06670-0.96031I$	$-7.01026-0.44637I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.484399 - 0.253838I$ $a = -1.69079 - 1.46053I$ $b = 0.384908 - 0.642002I$	$-2.06670 + 0.96031I$	$-7.01026 + 0.44637I$
$u = 0.524876 + 0.152599I$ $a = -0.238499 + 0.515412I$ $b = 1.078050 + 0.845687I$	$-1.94802 - 1.61598I$	$-10.03099 + 8.04874I$
$u = 0.524876 - 0.152599I$ $a = -0.238499 - 0.515412I$ $b = 1.078050 - 0.845687I$	$-1.94802 + 1.61598I$	$-10.03099 - 8.04874I$
$u = 1.13500 + 0.95032I$ $a = 0.267670 - 0.095830I$ $b = -1.049030 - 0.353850I$	$-3.94869 - 4.27443I$	0
$u = 1.13500 - 0.95032I$ $a = 0.267670 + 0.095830I$ $b = -1.049030 + 0.353850I$	$-3.94869 + 4.27443I$	0
$u = -0.510263$ $a = 0.359168$ $b = 1.45559$	-2.44443	-13.2680
$u = -1.09311 + 1.04884I$ $a = -0.65300 + 1.41019I$ $b = 0.639775 + 1.172900I$	$3.01535 + 12.24190I$	0
$u = -1.09311 - 1.04884I$ $a = -0.65300 - 1.41019I$ $b = 0.639775 - 1.172900I$	$3.01535 - 12.24190I$	0
$u = -0.380984 + 0.282605I$ $a = 1.31704 - 2.50803I$ $b = -0.342943 - 0.988238I$	$-0.62570 + 2.03170I$	$-1.27918 - 2.72742I$
$u = -0.380984 - 0.282605I$ $a = 1.31704 + 2.50803I$ $b = -0.342943 + 0.988238I$	$-0.62570 - 2.03170I$	$-1.27918 + 2.72742I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.32159+0.77978I$ $a=-0.461978+1.215750I$ $b=\ \ 0.550290+0.713216I$	$3.94019+0.36090I$	0
$u=-1.32159-0.77978I$ $a=-0.461978-1.215750I$ $b=\ \ 0.550290-0.713216I$	$3.94019-0.36090I$	0
$u=\ \ 0.343738+0.223330I$ $a=-7.66838+0.46120I$ $b=-0.418183-0.830193I$	$1.53422+1.77853I$	$-13.6461+18.0080I$
$u=\ \ 0.343738-0.223330I$ $a=-7.66838-0.46120I$ $b=-0.418183+0.830193I$	$1.53422-1.77853I$	$-13.6461-18.0080I$
$u=-0.393942$ $a=\ \ 1.04989$ $b=\ \ 1.00143$	-2.81001	-3.04700
$u=\ \ 1.15700+1.12146I$ $a=-0.63710-1.29592I$ $b=\ \ 0.504028-1.050930I$	$-1.17091-6.36314I$	0
$u=\ \ 1.15700-1.12146I$ $a=-0.63710+1.29592I$ $b=\ \ 0.504028+1.050930I$	$-1.17091+6.36314I$	0
$u=\ \ 0.141965+0.325094I$ $a=-10.62010-3.90398I$ $b=\ \ 0.753769-0.149844I$	$-0.821815+0.287086I$	$15.6399+24.5037I$
$u=\ \ 0.141965-0.325094I$ $a=-10.62010+3.90398I$ $b=\ \ 0.753769+0.149844I$	$-0.821815-0.287086I$	$15.6399-24.5037I$
$u=-1.21755+1.11843I$ $a=\ \ 0.644457-1.245450I$ $b=-0.77537-1.24885I$	$-2.4732+16.9235I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.21755-1.11843I$ $a=\ \ 0.644457+1.245450I$ $b=-0.77537+1.24885I$	$-2.4732-16.9235I$	0
$u=-1.01851+1.30436I$ $a=-0.002774-0.719604I$ $b=\ \ 0.542577-0.884808I$	$3.42139-4.04641I$	0
$u=-1.01851-1.30436I$ $a=-0.002774+0.719604I$ $b=\ \ 0.542577+0.884808I$	$3.42139+4.04641I$	0
$u=\ \ 0.24162+1.73943I$ $a=\ \ 0.251256-0.242611I$ $b=-0.300612-1.059860I$	$-3.63710-0.29930I$	0
$u=\ \ 0.24162-1.73943I$ $a=\ \ 0.251256+0.242611I$ $b=-0.300612+1.059860I$	$-3.63710+0.29930I$	0
$u=\ \ 1.38157+1.26431I$ $a=\ \ 0.570316+1.053060I$ $b=-0.640749+1.227980I$	$-6.73040-10.34400I$	0
$u=\ \ 1.38157-1.26431I$ $a=\ \ 0.570316-1.053060I$ $b=-0.640749-1.227980I$	$-6.73040+10.34400I$	0
$u=-1.84457+0.68870I$ $a=\ \ 0.278706-0.975731I$ $b=-0.470368-1.055660I$	$-0.67110+3.32518I$	0
$u=-1.84457-0.68870I$ $a=\ \ 0.278706+0.975731I$ $b=-0.470368+1.055660I$	$-0.67110-3.32518I$	0
$u=-1.07373+1.68578I$ $a=\ \ 0.003009+0.521248I$ $b=-0.572860+1.122140I$	$-1.60491-7.59190I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.07373 - 1.68578I$ $a = 0.003009 - 0.521248I$ $b = -0.572860 - 1.122140I$	$-1.60491 + 7.59190I$	0

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

(i) Arc colorings

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

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -4u^4 + 5u^3 - 3u^2 + 6u + 1$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u-1)^5$
c_2, c_6	u^5
c_3, c_4	$(u+1)^5$
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	$u^5-u^4-2u^3+u^2+u+1$
c_9, c_{11}	$u^5+u^4-2u^3-u^2+u-1$
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_3, c_4	$(y-1)^5$
c_2, c_6	y^5
c_5	$y^5 - y^4 + 8y^3 - 3y^2 + 3y - 1$
c_7, c_{10}	$y^5 + 3y^4 + 4y^3 + y^2 - y - 1$
c_8, c_9, c_{11}	$y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.339110 + 0.822375I$ $a = 0.01014 + 1.59703I$ $b = 0$	$-1.31583 - 1.53058I$	$1.45754 + 4.40323I$
$u = 0.339110 - 0.822375I$ $a = 0.01014 - 1.59703I$ $b = 0$	$-1.31583 + 1.53058I$	$1.45754 - 4.40323I$
$u = -0.766826$ $a = 2.89210$ $b = 0$	0.756147	-9.00270
$u = -0.455697 + 1.200150I$ $a = 0.043806 - 0.365575I$ $b = 0$	$4.22763 + 4.40083I$	$10.04378 - 5.20937I$
$u = -0.455697 - 1.200150I$ $a = 0.043806 + 0.365575I$ $b = 0$	$4.22763 - 4.40083I$	$10.04378 + 5.20937I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^5)(u^{71}-6u^{70}+\cdots+8u-1)$
c_2, c_6	$u^5(u^{71}-u^{70}+\cdots+160u-32)$
c_3, c_4	$((u+1)^5)(u^{71}-6u^{70}+\cdots+8u-1)$
c_5	$(u^5+3u^4+4u^3+u^2-u-1)(u^{71}+6u^{70}+\cdots+2u+1)$
c_7	$(u^5+u^4+2u^3+u^2+u+1)(u^{71}-12u^{70}+\cdots+2u-1)$
c_8	$(u^5-u^4-2u^3+u^2+u+1)(u^{71}+2u^{70}+\cdots-10u-1)$
c_9	$(u^5+u^4-2u^3-u^2+u-1)(u^{71}-2u^{70}+\cdots+1044u+216)$
c_{10}	$(u^5-u^4+2u^3-u^2+u-1)(u^{71}+2u^{70}+\cdots-26u-71)$
c_{11}	$(u^5+u^4-2u^3-u^2+u-1)(u^{71}+2u^{70}+\cdots-10u-1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_4	$((y-1)^5)(y^{71} - 64y^{70} + \cdots + 192y - 1)$
c_2, c_6	$y^5(y^{71} + 33y^{70} + \cdots - 4608y - 1024)$
c_5	$(y^5 - y^4 + 8y^3 - 3y^2 + 3y - 1)(y^{71} - 12y^{70} + \cdots + 6y - 1)$
c_7	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)(y^{71} + 60y^{69} + \cdots + 10y - 1)$
c_8, c_{11}	$(y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1)(y^{71} - 48y^{70} + \cdots + 10y - 1)$
c_9	$(y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1)(y^{71} + 48y^{70} + \cdots + 5221584y - 46656)$
c_{10}	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)(y^{71} + 72y^{70} + \cdots - 272958y - 5041)$