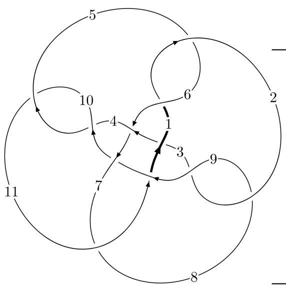
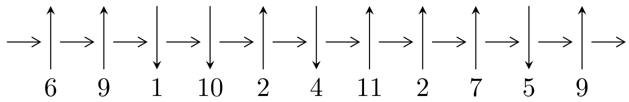
$11n_{172}$ ($K11n_{172}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 2.80403 \times 10^{129} u^{39} + 1.00269 \times 10^{129} u^{38} + \cdots + 1.55952 \times 10^{133} b - 4.83307 \times 10^{132}, \\
& 3.18557 \times 10^{131} u^{39} - 1.42090 \times 10^{132} u^{38} + \cdots + 6.95548 \times 10^{135} a + 3.12217 \times 10^{135}, \\
& u^{40} - u^{39} + \cdots + 492u - 892 \rangle \\
I_2^u = \langle & -3007418546u^{15} + 933342897u^{14} + \cdots + 91618883482b + 4813387670, \\
& -1873381418u^{15} - 2988794220u^{14} + \cdots + 91618883482a - 21851752726, \\
& u^{16} + 5u^{14} - 5u^{13} - u^{11} - 24u^{10} + 16u^9 + 4u^8 - 16u^7 + 20u^6 - 4u^5 - 17u^4 + 4u^3 + 10u^2 - 4 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 56 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. $\boldsymbol{I^u_1 = \langle 2.80 \times 10^{129}u^{39} + 1.00 \times 10^{129}u^{38} + \cdots + 1.56 \times 10^{133}b - 4.83 \times 10^{132},\ 3.19 \times 10^{131}u^{39} - 1.42 \times 10^{132}u^{38} + \cdots + 6.96 \times 10^{135}a + 3.12 \times 10^{135},\ u^{40} - u^{39} + \cdots + 492u - 892\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_6 = \begin{pmatrix} -0.0000457994u^{39} + 0.000204285u^{38} + \cdots + 0.0708298u - 0.448879 \\ -0.000179801u^{39} - 0.0000642943u^{38} + \cdots + 1.95559u + 0.309907 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0000420568u^{39} - 0.000112360u^{38} + \cdots - 2.24245u + 0.0906996 \\ -0.000731650u^{39} + 0.000562011u^{38} + \cdots + 0.278566u - 0.727739 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.000151445u^{39} - 0.0000710102u^{38} + \cdots + 2.55187u + 2.12193 \\ 0.000373065u^{39} - 0.000239614u^{38} + \cdots - 0.711429u + 0.439973 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.000134001u^{39} + 0.000268580u^{38} + \cdots - 1.88476u - 0.758785 \\ -0.000179801u^{39} - 0.0000642943u^{38} + \cdots + 1.95559u + 0.309907 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} 0.0000420568u^{39} - 0.000112360u^{38} + \cdots - 2.24245u + 0.0906996 \\ -0.000736091u^{39} + 0.000525007u^{38} + \cdots + 0.350670u - 0.790450 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.000166450u^{39} - 0.000130525u^{38} + \cdots - 1.45638u + 1.06015 \\ 0.000220629u^{39} - 0.0000136383u^{38} + \cdots - 0.303665u - 0.108440 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.000515912u^{39} + 0.000203912u^{38} + \cdots - 0.148443u - 0.735075 \\ -0.000308939u^{39} + 0.000237175u^{38} + \cdots - 0.241184u - 0.390016 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.000515912u^{39} + 0.000203912u^{38} + \cdots - 0.148443u - 0.735075 \\ -0.000308939u^{39} + 0.000237175u^{38} + \cdots - 0.241184u - 0.390016 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.000707464u^{39} - 0.00139771u^{38} + \cdots - 3.97400u - 0.836131$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{40} - 2u^{39} + \cdots + 14u - 1$
c_2, c_8	$u^{40} - u^{39} + \cdots + 492u - 892$
c_3	$u^{40} - 5u^{39} + \cdots - 248u + 88$
c_4, c_{10}	$u^{40} - u^{39} + \cdots - 12u + 4$
c_6	$u^{40} - 5u^{39} + \cdots + 457u + 29$
c_7	$u^{40} - 3u^{39} + \cdots - 26575u + 7349$
c_9	$u^{40} + 5u^{39} + \cdots + 96u + 11$
c_{11}	$u^{40} + u^{39} + \cdots - 1168u - 424$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{40} + 38y^{39} + \cdots - 78y + 1$
c_2, c_8	$y^{40} + 63y^{39} + \cdots + 6026912y + 795664$
c_3	$y^{40} - 59y^{39} + \cdots - 199840y + 7744$
c_4, c_{10}	$y^{40} - 35y^{39} + \cdots + 1888y + 16$
c_6	$y^{40} - 15y^{39} + \cdots - 262383y + 841$
c_7	$y^{40} + 47y^{39} + \cdots + 923130863y + 54007801$
c_9	$y^{40} + 7y^{39} + \cdots - 218y + 121$
c_{11}	$y^{40} + 57y^{39} + \cdots + 1150944y + 179776$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.972209 + 0.363644I$ $a = -0.691473 - 0.726212I$ $b = 0.246524 - 1.044100I$	$-1.63884 - 2.52981I$	$-3.46896 + 4.78238I$
$u = -0.972209 - 0.363644I$ $a = -0.691473 + 0.726212I$ $b = 0.246524 + 1.044100I$	$-1.63884 + 2.52981I$	$-3.46896 - 4.78238I$
$u = -0.777438 + 0.253101I$ $a = -0.28608 - 2.07418I$ $b = 0.0965200 - 0.0759702I$	$-0.55843 - 5.04023I$	$8.92316 + 6.11668I$
$u = -0.777438 - 0.253101I$ $a = -0.28608 + 2.07418I$ $b = 0.0965200 + 0.0759702I$	$-0.55843 + 5.04023I$	$8.92316 - 6.11668I$
$u = -1.028590 + 0.641044I$ $a = 0.812402 + 0.180660I$ $b = -0.05196 + 1.65626I$	$-6.89381 + 4.31374I$	$-3.00921 - 2.52408I$
$u = -1.028590 - 0.641044I$ $a = 0.812402 - 0.180660I$ $b = -0.05196 - 1.65626I$	$-6.89381 - 4.31374I$	$-3.00921 + 2.52408I$
$u = 1.28769$ $a = -1.23762$ $b = 1.21545$	2.31916	3.45590
$u = -0.004586 + 0.662077I$ $a = -0.110517 - 1.374950I$ $b = -0.440412 - 1.198770I$	$-6.21063 + 2.44288I$	$-1.57019 - 3.53786I$
$u = -0.004586 - 0.662077I$ $a = -0.110517 + 1.374950I$ $b = -0.440412 + 1.198770I$	$-6.21063 - 2.44288I$	$-1.57019 + 3.53786I$
$u = 0.606580 + 0.241726I$ $a = -0.989022 - 0.886345I$ $b = 0.197863 + 0.060558I$	$1.31470 + 0.60771I$	$8.49421 - 3.04989I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.606580 - 0.241726I$ $a = -0.989022 + 0.886345I$ $b = 0.197863 - 0.060558I$	$1.31470 - 0.60771I$	$8.49421 + 3.04989I$
$u = 0.584454 + 0.231728I$ $a = -0.083035 + 1.313620I$ $b = -0.458127 + 1.196180I$	$-5.71740 - 6.20191I$	$-6.05433 + 5.08780I$
$u = 0.584454 - 0.231728I$ $a = -0.083035 - 1.313620I$ $b = -0.458127 - 1.196180I$	$-5.71740 + 6.20191I$	$-6.05433 - 5.08780I$
$u = -0.607336$ $a = 2.89129$ $b = -1.09842$	3.09539	-9.16160
$u = 0.13576 + 1.42105I$ $a = -0.158909 - 0.108207I$ $b = -0.742397 - 0.144685I$	$-4.59373 + 2.98825I$	$4.81250 - 3.01552I$
$u = 0.13576 - 1.42105I$ $a = -0.158909 + 0.108207I$ $b = -0.742397 + 0.144685I$	$-4.59373 - 2.98825I$	$4.81250 + 3.01552I$
$u = -0.292078 + 0.391717I$ $a = -0.559269 + 0.026373I$ $b = -0.768195 + 0.090718I$	$-2.47058 + 1.70720I$	$0.230221 - 0.591796I$
$u = -0.292078 - 0.391717I$ $a = -0.559269 - 0.026373I$ $b = -0.768195 - 0.090718I$	$-2.47058 - 1.70720I$	$0.230221 + 0.591796I$
$u = 0.011693 + 0.471366I$ $a = -0.639263 - 0.198812I$ $b = 0.381500 + 0.672173I$	$0.03644 + 1.50292I$	$1.25089 - 6.14683I$
$u = 0.011693 - 0.471366I$ $a = -0.639263 + 0.198812I$ $b = 0.381500 - 0.672173I$	$0.03644 - 1.50292I$	$1.25089 + 6.14683I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.281701 + 0.359944I$ $a = -2.19829 - 0.09585I$ $b = 0.325667 + 1.141170I$	$-1.21242 + 1.07873I$	$-3.63948 + 1.17826I$
$u = 0.281701 - 0.359944I$ $a = -2.19829 + 0.09585I$ $b = 0.325667 - 1.141170I$	$-1.21242 - 1.07873I$	$-3.63948 - 1.17826I$
$u = -0.11719 + 1.62482I$ $a = 0.403686 - 0.292336I$ $b = -0.345255 - 0.125454I$	$-8.09181 - 0.67197I$	0
$u = -0.11719 - 1.62482I$ $a = 0.403686 + 0.292336I$ $b = -0.345255 + 0.125454I$	$-8.09181 + 0.67197I$	0
$u = 1.60181 + 1.05960I$ $a = 0.323648 - 0.513185I$ $b = 0.10749 - 1.61398I$	$-6.22320 + 3.43752I$	0
$u = 1.60181 - 1.05960I$ $a = 0.323648 + 0.513185I$ $b = 0.10749 + 1.61398I$	$-6.22320 - 3.43752I$	0
$u = -0.48768 + 1.87046I$ $a = 0.445879 + 1.224510I$ $b = -0.14644 + 1.58425I$	$-14.3940 - 1.3454I$	0
$u = -0.48768 - 1.87046I$ $a = 0.445879 - 1.224510I$ $b = -0.14644 - 1.58425I$	$-14.3940 + 1.3454I$	0
$u = -0.11349 + 1.97784I$ $a = 0.128360 + 1.333720I$ $b = -0.27705 + 1.55024I$	$-10.55230 - 6.76566I$	0
$u = -0.11349 - 1.97784I$ $a = 0.128360 - 1.333720I$ $b = -0.27705 - 1.55024I$	$-10.55230 + 6.76566I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.00542 + 2.12395I$ $a = 0.124816 - 1.215410I$ $b = -0.28024 - 1.51688I$	$-9.55118 + 0.96633I$	0
$u = -0.00542 - 2.12395I$ $a = 0.124816 + 1.215410I$ $b = -0.28024 + 1.51688I$	$-9.55118 - 0.96633I$	0
$u = 0.21330 + 2.22331I$ $a = -0.0303329 + 0.0193746I$ $b = 1.75447 - 0.27463I$	$-10.09040 - 5.18311I$	0
$u = 0.21330 - 2.22331I$ $a = -0.0303329 - 0.0193746I$ $b = 1.75447 + 0.27463I$	$-10.09040 + 5.18311I$	0
$u = -0.79762 + 2.19173I$ $a = -0.440868 - 0.873034I$ $b = 0.84317 - 1.82666I$	$-14.8294 - 4.4956I$	0
$u = -0.79762 - 2.19173I$ $a = -0.440868 + 0.873034I$ $b = 0.84317 + 1.82666I$	$-14.8294 + 4.4956I$	0
$u = 0.56414 + 2.26378I$ $a = -0.363789 + 1.003570I$ $b = 0.63008 + 1.69717I$	$-16.3560 + 13.3915I$	0
$u = 0.56414 - 2.26378I$ $a = -0.363789 - 1.003570I$ $b = 0.63008 - 1.69717I$	$-16.3560 - 13.3915I$	0
$u = 0.75669 + 2.48566I$ $a = 0.256526 - 1.062360I$ $b = -0.13173 - 1.46303I$	$-12.97920 + 2.42998I$	0
$u = 0.75669 - 2.48566I$ $a = 0.256526 + 1.062360I$ $b = -0.13173 + 1.46303I$	$-12.97920 - 2.42998I$	0

II.
$\boldsymbol{I_2^u = \langle -3.01\times 10^9 u^{15} + 9.33\times 10^8 u^{14} + \cdots + 9.16\times 10^9 b + 4.81\times 10^9,\ -1.87\times 10^9 u^{15} - 2.99\times 10^9 u^{14} + \cdots + 9.16\times 10^9 a - 2.19\times 10^{10},\ u^{16} + 5u^{14} + \cdots + 10u^2 - 4\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 0.204476u^{15} + 0.326221u^{14} + \cdots - 0.0881222u + 2.38507 \\ 0.328253u^{15} - 0.101872u^{14} + \cdots + 1.42300u - 0.525371 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} 0.197482u^{15} - 0.179148u^{14} + \cdots + 1.09215u - 1.18979 \\ -0.196147u^{15} + 0.172594u^{14} + \cdots - 1.16409u + 0.366552 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -0.0632878u^{15} - 0.0676739u^{14} + \cdots - 0.398063u + 1.03749 \\ -0.00954759u^{15} + 0.0961985u^{14} + \cdots - 0.151211u + 0.663053 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -0.123778u^{15} + 0.428093u^{14} + \cdots - 1.51112u + 2.91044 \\ 0.328253u^{15} - 0.101872u^{14} + \cdots + 1.42300u - 0.525371 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -u \\ u \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0.197482u^{15} - 0.179148u^{14} + \cdots + 1.09215u - 1.18979 \\ -0.0923248u^{15} + 0.0842185u^{14} + \cdots - 0.374160u - 0.350040 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -0.0660443u^{15} + 0.133020u^{14} + \cdots - 2.18472u + 1.03736 \\ 0.0529067u^{15} + 0.140450u^{14} + \cdots + 0.570148u + 0.302746 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -0.0419856u^{15} - 0.418545u^{14} + \cdots + 1.04104u - 2.75923 \\ -0.120621u^{15} - 0.0702787u^{14} + \cdots - 0.632997u - 0.128181 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -0.0419856u^{15} - 0.418545u^{14} + \cdots + 1.04104u - 2.75923 \\ -0.120621u^{15} - 0.0702787u^{14} + \cdots - 0.632997u - 0.128181 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{7739992772}{4580941741}u^{15} + \frac{9173770896}{4580941741}u^{14} + \cdots - \frac{57525934822}{4580941741}u + \frac{47024714230}{4580941741}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - u^{15} + \cdots - 2u - 1$
c_2	$u^{16} + 5u^{14} + \cdots + 10u^2 - 4$
c_3	$u^{16} + 8u^{15} + \cdots + 12u + 8$
c_4	$u^{16} - 6u^{14} + \cdots - 14u^2 + 4$
c_5	$u^{16} + u^{15} + \cdots + 2u - 1$
c_6	$u^{16} + 2u^{15} + \cdots + 11u + 1$
c_7	$u^{16} - 2u^{15} + \cdots + 13u + 1$
c_8	$u^{16} + 5u^{14} + \cdots + 10u^2 - 4$
c_9	$u^{16} - 6u^{15} + \cdots - 2u + 1$
c_{10}	$u^{16} - 6u^{14} + \cdots - 14u^2 + 4$
c_{11}	$u^{16} + 4u^{14} + \cdots + 4u^2 - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{16} + 9y^{15} + \cdots + 10y + 1$
c_2, c_8	$y^{16} + 10y^{15} + \cdots - 80y + 16$
c_3	$y^{16} - 20y^{15} + \cdots - 1168y + 64$
c_4, c_{10}	$y^{16} - 12y^{15} + \cdots - 112y + 16$
c_6	$y^{16} + 4y^{14} + \cdots - 91y + 1$
c_7	$y^{16} + 10y^{15} + \cdots - 69y + 1$
c_9	$y^{16} - 2y^{15} + \cdots - 2y + 1$
c_{11}	$y^{16} + 8y^{15} + \cdots - 8y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.044910 + 0.084383I$ $a = 0.057226 + 0.245893I$ $b = 0.361947 + 1.340670I$	$-4.61886 + 6.15067I$	$1.67402 - 4.95826I$
$u = -1.044910 - 0.084383I$ $a = 0.057226 - 0.245893I$ $b = 0.361947 - 1.340670I$	$-4.61886 - 6.15067I$	$1.67402 + 4.95826I$
$u = 0.203156 + 1.098810I$ $a = -0.741658 - 0.024758I$ $b = -0.379929 - 0.431781I$	$-5.56667 + 2.95635I$	$-4.74772 - 2.75237I$
$u = 0.203156 - 1.098810I$ $a = -0.741658 + 0.024758I$ $b = -0.379929 + 0.431781I$	$-5.56667 - 2.95635I$	$-4.74772 + 2.75237I$
$u = 0.701325 + 0.516464I$ $a = 1.021890 - 0.280960I$ $b = -0.299377 - 1.065240I$	$-0.62726 + 1.86405I$	$2.38240 - 3.76150I$
$u = 0.701325 - 0.516464I$ $a = 1.021890 + 0.280960I$ $b = -0.299377 + 1.065240I$	$-0.62726 - 1.86405I$	$2.38240 + 3.76150I$
$u = -0.813758$ $a = 2.21481$ $b = -1.08888$	3.38602	19.6050
$u = 0.752983 + 0.179131I$ $a = 0.79516 - 2.54506I$ $b = -0.050757 - 0.668728I$	$-1.13425 + 5.09162I$	$-5.21325 - 6.81011I$
$u = 0.752983 - 0.179131I$ $a = 0.79516 + 2.54506I$ $b = -0.050757 + 0.668728I$	$-1.13425 - 5.09162I$	$-5.21325 + 6.81011I$
$u = -0.474047 + 0.462486I$ $a = 1.29761 - 1.51241I$ $b = -0.190166 - 0.829536I$	$0.363930 + 0.209601I$	$0.372974 + 0.607008I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.474047-0.462486I$ $a=\ \ 1.29761+1.51241I$ $b=-0.190166+0.829536I$	$0.363930-0.209601I$	$0.372974-0.607008I$
$u=\ \ 1.43010$ $a=-1.12981$ $b=\ \ 1.62094$	1.43155	-5.25650
$u=\ \ 0.13607+1.51148I$ $a=-0.173098-0.201972I$ $b=\ \ 0.597072-0.748618I$	$-8.25349-1.91163I$	$-5.00806+3.84199I$
$u=\ \ 0.13607-1.51148I$ $a=-0.173098+0.201972I$ $b=\ \ 0.597072+0.748618I$	$-8.25349+1.91163I$	$-5.00806-3.84199I$
$u=-0.58274+2.26201I$ $a=-0.299629-1.085740I$ $b=\ \ 0.19518-1.54614I$	$-12.18100-1.94801I$	$-0.634861-0.077298I$
$u=-0.58274-2.26201I$ $a=-0.299629+1.085740I$ $b=\ \ 0.19518+1.54614I$	$-12.18100+1.94801I$	$-0.634861+0.077298I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{16} - u^{15} + \cdots - 2u - 1)(u^{40} - 2u^{39} + \cdots + 14u - 1)$
c_2	$(u^{16} + 5u^{14} + \cdots + 10u^2 - 4)(u^{40} - u^{39} + \cdots + 492u - 892)$
c_3	$(u^{16} + 8u^{15} + \cdots + 12u + 8)(u^{40} - 5u^{39} + \cdots - 248u + 88)$
c_4	$(u^{16} - 6u^{14} + \cdots - 14u^2 + 4)(u^{40} - u^{39} + \cdots - 12u + 4)$
c_5	$(u^{16} + u^{15} + \cdots + 2u - 1)(u^{40} - 2u^{39} + \cdots + 14u - 1)$
c_6	$(u^{16} + 2u^{15} + \cdots + 11u + 1)(u^{40} - 5u^{39} + \cdots + 457u + 29)$
c_7	$(u^{16} - 2u^{15} + \cdots + 13u + 1)(u^{40} - 3u^{39} + \cdots - 26575u + 7349)$
c_8	$(u^{16} + 5u^{14} + \cdots + 10u^2 - 4)(u^{40} - u^{39} + \cdots + 492u - 892)$
c_9	$(u^{16} - 6u^{15} + \cdots - 2u + 1)(u^{40} + 5u^{39} + \cdots + 96u + 11)$
c_{10}	$(u^{16} - 6u^{14} + \cdots - 14u^2 + 4)(u^{40} - u^{39} + \cdots - 12u + 4)$
c_{11}	$(u^{16} + 4u^{14} + \cdots + 4u^2 - 1)(u^{40} + u^{39} + \cdots - 1168u - 424)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{16} + 9y^{15} + \cdots + 10y + 1)(y^{40} + 38y^{39} + \cdots - 78y + 1)$
c_2, c_8	$(y^{16} + 10y^{15} + \cdots - 80y + 16)$ $\cdot (y^{40} + 63y^{39} + \cdots + 6026912y + 795664)$
c_3	$(y^{16} - 20y^{15} + \cdots - 1168y + 64)$ $\cdot (y^{40} - 59y^{39} + \cdots - 199840y + 7744)$
c_4, c_{10}	$(y^{16} - 12y^{15} + \cdots - 112y + 16)(y^{40} - 35y^{39} + \cdots + 1888y + 16)$
c_6	$(y^{16} + 4y^{14} + \cdots - 91y + 1)(y^{40} - 15y^{39} + \cdots - 262383y + 841)$
c_7	$(y^{16} + 10y^{15} + \cdots - 69y + 1)$ $\cdot (y^{40} + 47y^{39} + \cdots + 923130863y + 54007801)$
c_9	$(y^{16} - 2y^{15} + \cdots - 2y + 1)(y^{40} + 7y^{39} + \cdots - 218y + 121)$
c_{11}	$(y^{16} + 8y^{15} + \cdots - 8y + 1)(y^{40} + 57y^{39} + \cdots + 1150944y + 179776)$