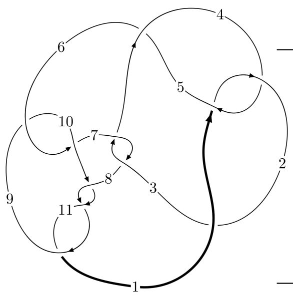
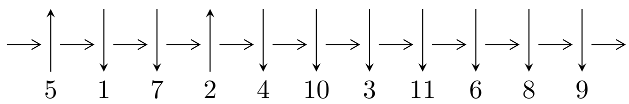
$11a_{49}$ ($K11a_{49}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle 9.01751 \times 10^{36} u^{59} + 5.15573 \times 10^{37} u^{58} + \cdots + 2.98614 \times 10^{35} b - 6.79357 \times 10^{36},$$
$$8.91336 \times 10^{36} u^{59} + 4.98175 \times 10^{37} u^{58} + \cdots + 2.98614 \times 10^{35} a - 5.40121 \times 10^{36},\ u^{60} + 7u^{59} + \cdots - 6u - 1$$
$$I_2^u = \langle -a^2 + b - 2a - 1,\ a^4 + 3a^3 + 4a^2 + 3a + 2,\ u - 1\rangle$$
$$I_3^u = \langle b,\ a^2 + au + 2a + 3u + 5,\ u^2 + u - 1\rangle$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 68 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.

$\boldsymbol{I_1^u = \langle 9.02\times10^{36}u^{59}+5.16\times10^{37}u^{58}+\cdots+2.99\times10^{35}b-6.79\times10^{36},\ 8.91\times10^{36}u^{59}+4.98\times10^{37}u^{58}+\cdots+2.99\times10^{35}a-5.40\times10^{36},\ u^{60}+7u^{59}+\cdots-6u-1\rangle}$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -u \\ -u^3+u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -29.8491u^{59}-166.829u^{58}+\cdots+129.411u+18.0876 \\ -30.1979u^{59}-172.655u^{58}+\cdots+122.504u+22.7504 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -38.7260u^{59}-215.837u^{58}+\cdots+161.430u+23.9641 \\ -40.2858u^{59}-229.747u^{58}+\cdots+160.391u+30.0045 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -35.9915u^{59}-204.169u^{58}+\cdots+147.701u+26.5908 \\ -36.2977u^{59}-209.779u^{58}+\cdots+151.862u+29.1133 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -37.1833u^{59}-206.920u^{58}+\cdots+154.103u+23.9174 \\ -41.6797u^{59}-236.581u^{58}+\cdots+163.204u+30.6805 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_6 = \begin{pmatrix} -25.6472u^{59}-153.577u^{58}+\cdots+126.598u+23.1246 \\ -25.9534u^{59}-159.186u^{58}+\cdots+130.758u+25.6472 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -23.4754u^{59}-130.115u^{58}+\cdots+100.960u+15.9285 \\ -27.6129u^{59}-156.128u^{58}+\cdots+107.032u+20.4621 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -23.4754u^{59}-130.115u^{58}+\cdots+100.960u+15.9285 \\ -27.6129u^{59}-156.128u^{58}+\cdots+107.032u+20.4621 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 50.7022u^{59}+278.914u^{58}+\cdots-202.739u-39.8944$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{60} + 4u^{59} + \cdots + 6u + 1$
c_2, c_5	$u^{60} + 20u^{59} + \cdots - 82u + 1$
c_3, c_7	$u^{60} - 2u^{59} + \cdots - 16u + 16$
c_6, c_9	$u^{60} + 3u^{59} + \cdots - 24u - 16$
c_8, c_{10}, c_{11}	$u^{60} - 7u^{59} + \cdots + 6u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{60} + 20y^{59} + \cdots - 82y + 1$
c_2, c_5	$y^{60} + 44y^{59} + \cdots - 7010y + 1$
c_3, c_7	$y^{60} + 30y^{59} + \cdots + 1408y + 256$
c_6, c_9	$y^{60} - 33y^{59} + \cdots - 576y + 256$
c_8, c_{10}, c_{11}	$y^{60} - 57y^{59} + \cdots - 48y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.318501 + 0.946527I$ $a = 0.673424 - 0.443134I$ $b = 0.628475 + 1.190740I$	$3.14485 - 10.38850I$	0
$u = 0.318501 - 0.946527I$ $a = 0.673424 + 0.443134I$ $b = 0.628475 - 1.190740I$	$3.14485 + 10.38850I$	0
$u = 0.260347 + 0.914658I$ $a = -0.502988 + 0.479081I$ $b = -0.548192 - 1.199390I$	$4.15844 - 4.56410I$	0
$u = 0.260347 - 0.914658I$ $a = -0.502988 - 0.479081I$ $b = -0.548192 + 1.199390I$	$4.15844 + 4.56410I$	0
$u = 1.050240 + 0.110830I$ $a = 2.93202 - 0.13396I$ $b = 0.514724 - 0.182101I$	$-1.44417 + 1.61127I$	0
$u = 1.050240 - 0.110830I$ $a = 2.93202 + 0.13396I$ $b = 0.514724 + 0.182101I$	$-1.44417 - 1.61127I$	0
$u = 0.636405 + 0.600822I$ $a = 0.0733025 - 0.0078478I$ $b = 0.618612 - 0.670882I$	$-3.26453 + 0.03248I$	$-13.91224 + 0.I$
$u = 0.636405 - 0.600822I$ $a = 0.0733025 + 0.0078478I$ $b = 0.618612 + 0.670882I$	$-3.26453 - 0.03248I$	$-13.91224 + 0.I$
$u = 1.119040 + 0.184637I$ $a = 1.292300 - 0.042199I$ $b = 0.213622 + 0.675044I$	$-1.23369 - 0.89939I$	0
$u = 1.119040 - 0.184637I$ $a = 1.292300 + 0.042199I$ $b = 0.213622 - 0.675044I$	$-1.23369 + 0.89939I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.387799 + 0.734072I$ $a = 0.750801 - 1.082130I$ $b = 0.543968 + 0.934007I$	$-2.46678 - 4.55995I$	$-10.63324 + 6.84099I$
$u = 0.387799 - 0.734072I$ $a = 0.750801 + 1.082130I$ $b = 0.543968 - 0.934007I$	$-2.46678 + 4.55995I$	$-10.63324 - 6.84099I$
$u = -1.182510 + 0.025488I$ $a = -0.149815 + 0.792334I$ $b = -0.08319 + 1.71273I$	$4.58752 + 3.28588I$	0
$u = -1.182510 - 0.025488I$ $a = -0.149815 - 0.792334I$ $b = -0.08319 - 1.71273I$	$4.58752 - 3.28588I$	0
$u = 0.960690 + 0.700258I$ $a = -0.170467 - 0.529914I$ $b = 0.429578 - 1.064780I$	$1.22350 + 4.74489I$	0
$u = 0.960690 - 0.700258I$ $a = -0.170467 + 0.529914I$ $b = 0.429578 + 1.064780I$	$1.22350 - 4.74489I$	0
$u = 1.022220 + 0.626579I$ $a = 0.346636 + 0.523779I$ $b = -0.299489 + 1.056400I$	$1.87463 - 0.78688I$	0
$u = 1.022220 - 0.626579I$ $a = 0.346636 - 0.523779I$ $b = -0.299489 - 1.056400I$	$1.87463 + 0.78688I$	0
$u = 1.216360 + 0.116183I$ $a = -2.34185 + 0.37415I$ $b = -0.685889 + 0.406589I$	$-1.99576 - 3.02877I$	0
$u = 1.216360 - 0.116183I$ $a = -2.34185 - 0.37415I$ $b = -0.685889 - 0.406589I$	$-1.99576 + 3.02877I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.307636 + 0.644850I$ $a = 1.144270 + 0.031313I$ $b = 0.165753 - 1.304350I$	$6.42634 - 1.17254I$	$-0.566200 + 1.294911I$
$u = -0.307636 - 0.644850I$ $a = 1.144270 - 0.031313I$ $b = 0.165753 + 1.304350I$	$6.42634 + 1.17254I$	$-0.566200 - 1.294911I$
$u = 0.250540 + 0.658416I$ $a = 0.582040 + 0.468015I$ $b = 0.960204 - 0.362556I$	$0.56981 - 4.60985I$	$-6.69053 + 5.91571I$
$u = 0.250540 - 0.658416I$ $a = 0.582040 - 0.468015I$ $b = 0.960204 + 0.362556I$	$0.56981 + 4.60985I$	$-6.69053 - 5.91571I$
$u = -0.397265 + 0.581288I$ $a = -1.344430 + 0.129900I$ $b = -0.284219 + 1.305220I$	$6.05175 + 4.76483I$	$-1.11123 - 4.56468I$
$u = -0.397265 - 0.581288I$ $a = -1.344430 - 0.129900I$ $b = -0.284219 - 1.305220I$	$6.05175 - 4.76483I$	$-1.11123 + 4.56468I$
$u = 0.166593 + 0.624695I$ $a = 0.134377 + 1.238880I$ $b = -0.262438 - 0.985240I$	$1.53389 - 2.11161I$	$-1.83843 + 4.55656I$
$u = 0.166593 - 0.624695I$ $a = 0.134377 - 1.238880I$ $b = -0.262438 + 0.985240I$	$1.53389 + 2.11161I$	$-1.83843 - 4.55656I$
$u = 1.360300 + 0.086702I$ $a = -1.78259 - 0.56257I$ $b = -0.611650 - 0.809721I$	$-4.90942 - 2.39733I$	0
$u = 1.360300 - 0.086702I$ $a = -1.78259 + 0.56257I$ $b = -0.611650 + 0.809721I$	$-4.90942 + 2.39733I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.370480+0.211215I$ $a=-1.42173-0.57455I$ $b=-1.254690-0.485726I$	$-3.80109+2.07837I$	0
$u=-1.370480-0.211215I$ $a=-1.42173+0.57455I$ $b=-1.254690+0.485726I$	$-3.80109-2.07837I$	0
$u=-1.372610+0.240045I$ $a=-1.206450+0.088768I$ $b=-0.536814+1.263550I$	$-3.38098+5.24726I$	0
$u=-1.372610-0.240045I$ $a=-1.206450-0.088768I$ $b=-0.536814-1.263550I$	$-3.38098-5.24726I$	0
$u=-1.401420+0.163779I$ $a=\ \ 1.005320+0.195931I$ $b=\ \ 0.406771-1.172380I$	$-6.11056+0.33405I$	0
$u=-1.401420-0.163779I$ $a=\ \ 1.005320-0.195931I$ $b=\ \ 0.406771+1.172380I$	$-6.11056-0.33405I$	0
$u=-1.40212+0.25943I$ $a=\ \ 1.38067+0.69174I$ $b=\ \ 1.225810+0.584729I$	$-4.71228+7.96352I$	0
$u=-1.40212-0.25943I$ $a=\ \ 1.38067-0.69174I$ $b=\ \ 1.225810-0.584729I$	$-4.71228-7.96352I$	0
$u=\ \ 0.153691+0.545787I$ $a=-0.556917-0.791426I$ $b=-0.921325+0.199362I$	$1.086080+0.692045I$	$-4.81030+0.29508I$
$u=\ \ 0.153691-0.545787I$ $a=-0.556917+0.791426I$ $b=-0.921325-0.199362I$	$1.086080-0.692045I$	$-4.81030-0.29508I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.40946 + 0.27587I$ $a = 1.41078 + 0.77344I$ $b = 0.461649 + 1.079170I$	$0.95728 - 2.24717I$	0
$u = 1.40946 - 0.27587I$ $a = 1.41078 - 0.77344I$ $b = 0.461649 - 1.079170I$	$0.95728 + 2.24717I$	0
$u = -1.45673$ $a = -1.09429$ $b = -0.967879$	-7.21613	0
$u = -1.43351 + 0.37170I$ $a = -1.60294 + 0.24999I$ $b = -0.76178 + 1.26721I$	$-1.23187 + 9.17979I$	0
$u = -1.43351 - 0.37170I$ $a = -1.60294 - 0.24999I$ $b = -0.76178 - 1.26721I$	$-1.23187 - 9.17979I$	0
$u = 1.46184 + 0.24029I$ $a = -1.51788 - 0.84748I$ $b = -0.558703 - 1.096040I$	$0.04969 - 7.86068I$	0
$u = 1.46184 - 0.24029I$ $a = -1.51788 + 0.84748I$ $b = -0.558703 + 1.096040I$	$0.04969 + 7.86068I$	0
$u = -1.45691 + 0.27854I$ $a = 1.51683 + 0.01897I$ $b = 0.657430 - 1.153890I$	$-8.38340 + 8.24100I$	0
$u = -1.45691 - 0.27854I$ $a = 1.51683 - 0.01897I$ $b = 0.657430 + 1.153890I$	$-8.38340 - 8.24100I$	0
$u = 0.489956$ $a = 0.405505$ $b = -0.332522$	-0.859418	-11.8180

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.46811 + 0.38180I$ $a = 1.69029 - 0.23279I$ $b = 0.80501 - 1.23713I$	$-2.5536 + 15.1714I$	0
$u = -1.46811 - 0.38180I$ $a = 1.69029 + 0.23279I$ $b = 0.80501 + 1.23713I$	$-2.5536 - 15.1714I$	0
$u = -1.53424 + 0.14331I$ $a = 0.949094 + 0.550926I$ $b = 0.848905 + 0.481246I$	$-10.47490 + 2.55878I$	0
$u = -1.53424 - 0.14331I$ $a = 0.949094 - 0.550926I$ $b = 0.848905 - 0.481246I$	$-10.47490 - 2.55878I$	0
$u = 0.320933 + 0.297553I$ $a = 0.20023 - 3.24402I$ $b = 0.180899 + 0.609146I$	$-0.66653 + 1.65828I$	$-3.28323 + 3.22527I$
$u = 0.320933 - 0.297553I$ $a = 0.20023 + 3.24402I$ $b = 0.180899 - 0.609146I$	$-0.66653 - 1.65828I$	$-3.28323 - 3.22527I$
$u = -1.68096 + 0.03245I$ $a = 0.170430 + 0.699797I$ $b = 0.154472 + 0.628288I$	$-8.49817 - 2.35434I$	0
$u = -1.68096 - 0.03245I$ $a = 0.170430 - 0.699797I$ $b = 0.154472 - 0.628288I$	$-8.49817 + 2.35434I$	0
$u = -0.1037940 + 0.0707771I$ $a = -5.31036 + 0.40793I$ $b = -0.357301 + 0.551894I$	$-0.33181 + 1.48905I$	$-3.19515 - 4.46795I$
$u = -0.1037940 - 0.0707771I$ $a = -5.31036 - 0.40793I$ $b = -0.357301 - 0.551894I$	$-0.33181 - 1.48905I$	$-3.19515 + 4.46795I$

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

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

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

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

$$a_2 = \begin{pmatrix} a^2+3a+1 \\ a^2+2a+1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -a^3-2a^2-a+1 \\ -a^3-2a^2-a+1 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -a^3-4a^2-5a-3 \\ -a^3-3a^2-4a-2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -a^3-2a^2-a+1 \\ -a^3-2a^2-a+1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -a-2 \\ -a-1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -a-2 \\ -a-1 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -3a^3-12a^2-7a-10$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^4 + y^3 + 3y^2 + 2y + 1$
c_2, c_3, c_5 c_7	$y^4 + 5y^3 + 7y^2 + 2y + 1$
c_6, c_9	y^4
c_8, c_{10}, c_{11}	$(y-1)^4$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.00000$ $a = -0.148192 + 0.911292I$ $b = -0.10488 + 1.55249I$	$5.14581 + 3.16396I$	$-0.358581 - 1.047693I$
$u = 1.00000$ $a = -0.148192 - 0.911292I$ $b = -0.10488 - 1.55249I$	$5.14581 - 3.16396I$	$-0.358581 + 1.047693I$
$u = 1.00000$ $a = -1.35181 + 0.72034I$ $b = -0.395123 - 0.506844I$	$-1.85594 - 1.41510I$	$-15.1414 + 7.6022I$
$u = 1.00000$ $a = -1.35181 - 0.72034I$ $b = -0.395123 + 0.506844I$	$-1.85594 + 1.41510I$	$-15.1414 - 7.6022I$

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

(i) Arc colorings

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

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -5au - a - 3u - 19$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.618034$ $a = -1.30902 + 2.26728I$ $b = 0$	$-0.98696 + 2.02988I$	$-15.5000 - 9.2736I$
$u = 0.618034$ $a = -1.30902 - 2.26728I$ $b = 0$	$-0.98696 - 2.02988I$	$-15.5000 + 9.2736I$
$u = -1.61803$ $a = -0.190983 + 0.330792I$ $b = 0$	$-8.88264 + 2.02988I$	$-15.5000 + 2.3454I$
$u = -1.61803$ $a = -0.190983 - 0.330792I$ $b = 0$	$-8.88264 - 2.02988I$	$-15.5000 - 2.3454I$

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u^2+u+1)^2)(u^4-u^3+u^2+1)(u^{60}+4u^{59}+\cdots+6u+1)$
c_2, c_5	$((u^2+u+1)^2)(u^4+u^3+3u^2+2u+1)(u^{60}+20u^{59}+\cdots-82u+1)$
c_3	$u^4(u^4-u^3+3u^2-2u+1)(u^{60}-2u^{59}+\cdots-16u+16)$
c_4	$((u^2-u+1)^2)(u^4+u^3+u^2+1)(u^{60}+4u^{59}+\cdots+6u+1)$
c_6	$u^4(u^2+u-1)^2(u^{60}+3u^{59}+\cdots-24u-16)$
c_7	$u^4(u^4+u^3+3u^2+2u+1)(u^{60}-2u^{59}+\cdots-16u+16)$
c_8	$((u-1)^4)(u^2+u-1)^2(u^{60}-7u^{59}+\cdots+6u-1)$
c_9	$u^4(u^2-u-1)^2(u^{60}+3u^{59}+\cdots-24u-16)$
c_{10}, c_{11}	$((u+1)^4)(u^2-u-1)^2(u^{60}-7u^{59}+\cdots+6u-1)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$((y^2+y+1)^2)(y^4+y^3+3y^2+2y+1)(y^{60}+20y^{59}+\cdots-82y+1)$
c_2, c_5	$((y^2+y+1)^2)(y^4+5y^3+\cdots+2y+1)(y^{60}+44y^{59}+\cdots-7010y+1)$
c_3, c_7	$y^4(y^4+5y^3+\cdots+2y+1)(y^{60}+30y^{59}+\cdots+1408y+256)$
c_6, c_9	$y^4(y^2-3y+1)^2(y^{60}-33y^{59}+\cdots-576y+256)$
c_8, c_{10}, c_{11}	$((y-1)^4)(y^2-3y+1)^2(y^{60}-57y^{59}+\cdots-48y+1)$