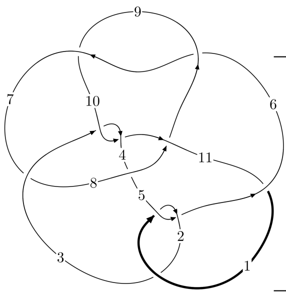
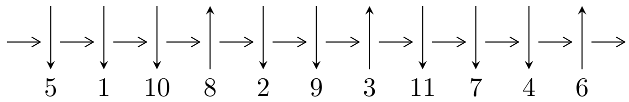
$11a_{127}$ ($K11a_{127}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle -1.48129 \times 10^{37} u^{70} - 2.24416 \times 10^{37} u^{69} + \cdots + 2.11503 \times 10^{37} b + 2.31427 \times 10^{37},$$
$$1.02558 \times 10^{37} u^{70} + 1.31834 \times 10^{37} u^{69} + \cdots + 9.61375 \times 10^{36} a - 1.17173 \times 10^{37},\ u^{71} + 2u^{70} + \cdots - 2u - 1$$
$$I_2^u = \langle b,\ 3u^2 + 5a - 7u + 6,\ u^3 - u^2 + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 74 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.

$\boldsymbol{I_1^u = \langle -1.48\times10^{37}u^{70} - 2.24\times10^{37}u^{69} + \cdots + 2.12\times10^{37}b + 2.31\times10^{37},\ 1.03\times10^{37}u^{70} + 1.32\times10^{37}u^{69} + \cdots + 9.61\times10^{36}a - 1.17\times10^{37},\ u^{71} + 2u^{70} + \cdots - 2u - 1\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u^3 \\ -u^3 + u \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -1.06678u^{70} - 1.37130u^{69} + \cdots + 3.23612u + 1.21881 \\ 0.700363u^{70} + 1.06106u^{69} + \cdots - 0.692179u - 1.09420 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -2.15925u^{70} - 2.76790u^{69} + \cdots + 1.95352u + 2.23161 \\ -0.0889259u^{70} - 0.0397494u^{69} + \cdots + 0.558128u - 0.272953 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -0.0510485u^{70} - 0.373547u^{69} + \cdots + 2.27625u + 0.706786 \\ 1.65193u^{70} + 2.44250u^{69} + \cdots - 2.69769u - 2.53117 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} u^3 \\ u^5 - u^3 + u \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -1.48850u^{70} - 2.21759u^{69} + \cdots + 3.68765u + 1.74401 \\ 0.992194u^{70} + 1.60425u^{69} + \cdots - 2.38134u - 1.45862 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 2.15925u^{70} + 2.76790u^{69} + \cdots - 1.95352u - 2.23161 \\ 1.20977u^{70} + 1.41960u^{69} + \cdots - 0.383830u - 1.82356 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 2.15925u^{70} + 2.76790u^{69} + \cdots - 1.95352u - 2.23161 \\ 1.20977u^{70} + 1.41960u^{69} + \cdots - 0.383830u - 1.82356 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.637188u^{70} + 2.00147u^{69} + \cdots + 4.31419u - 9.38239$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{71} + 2u^{70} + \cdots - 2u - 1$
c_2	$u^{71} + 36u^{70} + \cdots + 4u + 1$
c_3, c_{10}	$u^{71} + 2u^{70} + \cdots - 4u - 1$
c_4	$u^{71} - 3u^{70} + \cdots + 660u + 200$
c_6, c_9	$u^{71} - 4u^{70} + \cdots + 21u - 25$
c_7	$5(5u^{71} - 39u^{70} + \cdots + 379583u + 94103)$
c_8	$5(5u^{71} - 6u^{70} + \cdots + 231980u - 42881)$
c_{11}	$u^{71} + 6u^{70} + \cdots - 6402u - 847$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{71} - 36y^{70} + \cdots + 4y - 1$
c_2	$y^{71} + 72y^{69} + \cdots + 16y - 1$
c_3, c_{10}	$y^{71} - 48y^{70} + \cdots + 4y - 1$
c_4	$y^{71} + 21y^{70} + \cdots - 606000y - 40000$
c_6, c_9	$y^{71} - 58y^{70} + \cdots + 79841y - 625$
c_7	$25(25y^{71} + 959y^{70} + \cdots - 1.81656 \times 10^{11}y - 8.85537 \times 10^{9})$
c_8	$25(25y^{71} - 936y^{70} + \cdots + 3.67278 \times 10^{10}y - 1.83878 \times 10^{9})$
c_{11}	$y^{71} + 36y^{70} + \cdots + 22222860y - 717409$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.756248+0.731356I$ $a=-0.319350-0.556979I$ $b=-0.609727+0.867860I$	$-4.07719-3.90151I$	$-5.00000+3.54699I$
$u=-0.756248-0.731356I$ $a=-0.319350+0.556979I$ $b=-0.609727-0.867860I$	$-4.07719+3.90151I$	$-5.00000-3.54699I$
$u=-0.815711+0.480281I$ $a=\ \ 0.851857+0.985100I$ $b=\ \ 0.795395-0.523783I$	$-0.567421-0.429034I$	$-3.85529-0.87645I$
$u=-0.815711-0.480281I$ $a=\ \ 0.851857-0.985100I$ $b=\ \ 0.795395+0.523783I$	$-0.567421+0.429034I$	$-3.85529+0.87645I$
$u=-0.270630+0.894068I$ $a=-0.243231+0.020060I$ $b=-0.051628-0.966961I$	$-7.01345+0.86966I$	$-12.36097-1.34990I$
$u=-0.270630-0.894068I$ $a=-0.243231-0.020060I$ $b=-0.051628+0.966961I$	$-7.01345-0.86966I$	$-12.36097+1.34990I$
$u=\ \ 0.916597+0.577342I$ $a=\ \ 0.034897-0.799407I$ $b=\ \ 0.811438+0.019369I$	$1.66910-3.91281I$	0
$u=\ \ 0.916597-0.577342I$ $a=\ \ 0.034897+0.799407I$ $b=\ \ 0.811438-0.019369I$	$1.66910+3.91281I$	0
$u=-0.836576+0.691781I$ $a=-0.894496+0.459599I$ $b=\ \ 0.799336+0.956428I$	$-4.32946+9.25395I$	0
$u=-0.836576-0.691781I$ $a=-0.894496-0.459599I$ $b=\ \ 0.799336-0.956428I$	$-4.32946-9.25395I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=0.222287+0.874807I$ $a=-0.288795+0.326260I$ $b=0.664290+0.919235I$	$-2.91874+5.72330I$	$-6.82100-5.17076I$
$u=0.222287-0.874807I$ $a=-0.288795-0.326260I$ $b=0.664290-0.919235I$	$-2.91874-5.72330I$	$-6.82100+5.17076I$
$u=-0.730824+0.527079I$ $a=0.753832-0.354136I$ $b=-0.968868-0.896754I$	$-0.33023+4.59723I$	$-4.06867-6.98717I$
$u=-0.730824-0.527079I$ $a=0.753832+0.354136I$ $b=-0.968868+0.896754I$	$-0.33023-4.59723I$	$-4.06867+6.98717I$
$u=0.852440+0.278118I$ $a=-0.491553+0.803598I$ $b=0.441660+1.237110I$	$-4.80199-3.21094I$	$-12.45295+5.85076I$
$u=0.852440-0.278118I$ $a=-0.491553-0.803598I$ $b=0.441660-1.237110I$	$-4.80199+3.21094I$	$-12.45295-5.85076I$
$u=-0.234589+0.853865I$ $a=-0.554053-0.463968I$ $b=1.02317-1.27672I$	$-7.77113-11.46490I$	$-8.41846+5.96289I$
$u=-0.234589-0.853865I$ $a=-0.554053+0.463968I$ $b=1.02317+1.27672I$	$-7.77113+11.46490I$	$-8.41846-5.96289I$
$u=0.640616+0.584471I$ $a=0.569021+0.397714I$ $b=-0.836952+0.262697I$	$2.46408-0.68931I$	$1.74747+0.77475I$
$u=0.640616-0.584471I$ $a=0.569021-0.397714I$ $b=-0.836952-0.262697I$	$2.46408+0.68931I$	$1.74747-0.77475I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.859660$ $a=-0.477948$ $b=\ 1.49255$	-6.41668	-15.8580
$u=-1.099450+0.364554I$ $a=\ 0.87164-1.32285I$ $b=\ 0.420596-0.906615I$	$-2.63013+1.09669I$	0
$u=-1.099450-0.364554I$ $a=\ 0.87164+1.32285I$ $b=\ 0.420596+0.906615I$	$-2.63013-1.09669I$	0
$u=\ 1.087730+0.413641I$ $a=-1.09893+2.35531I$ $b=\ 0.001207+0.597493I$	$-5.31037-3.59883I$	0
$u=\ 1.087730-0.413641I$ $a=-1.09893-2.35531I$ $b=\ 0.001207-0.597493I$	$-5.31037+3.59883I$	0
$u=\ 0.862289+0.799421I$ $a=-0.285568-0.061148I$ $b=\ 0.121059-0.469128I$	$1.15814-2.98237I$	0
$u=\ 0.862289-0.799421I$ $a=-0.285568+0.061148I$ $b=\ 0.121059+0.469128I$	$1.15814+2.98237I$	0
$u=\ 1.145320+0.357313I$ $a=\ 1.92585+1.99482I$ $b=\ 0.70820+1.75526I$	$-6.26433+2.00466I$	0
$u=\ 1.145320-0.357313I$ $a=\ 1.92585-1.99482I$ $b=\ 0.70820-1.75526I$	$-6.26433-2.00466I$	0
$u=\ 1.130980+0.431488I$ $a=\ 0.67778+1.92019I$ $b=-0.795242+0.439034I$	$-5.35777-2.76405I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.130980 - 0.431488I$ $a = 0.67778 - 1.92019I$ $b = -0.795242 - 0.439034I$	$-5.35777 + 2.76405I$	0
$u = -1.115380 + 0.489220I$ $a = -1.63469 + 1.22563I$ $b = 0.059678 + 0.565014I$	$-4.70142 + 3.83162I$	0
$u = -1.115380 - 0.489220I$ $a = -1.63469 - 1.22563I$ $b = 0.059678 - 0.565014I$	$-4.70142 - 3.83162I$	0
$u = -1.137430 + 0.466202I$ $a = -0.643935 + 0.898772I$ $b = -0.720960 + 0.704286I$	$-5.10323 + 5.09404I$	0
$u = -1.137430 - 0.466202I$ $a = -0.643935 - 0.898772I$ $b = -0.720960 - 0.704286I$	$-5.10323 - 5.09404I$	0
$u = -1.162180 + 0.422674I$ $a = -0.53999 - 3.04221I$ $b = -1.93986 - 1.22986I$	$-10.03050 + 1.73926I$	0
$u = -1.162180 - 0.422674I$ $a = -0.53999 + 3.04221I$ $b = -1.93986 + 1.22986I$	$-10.03050 - 1.73926I$	0
$u = 1.131850 + 0.517529I$ $a = -0.60956 - 1.99402I$ $b = 0.809979 - 0.884446I$	$-1.51520 - 6.56162I$	0
$u = 1.131850 - 0.517529I$ $a = -0.60956 + 1.99402I$ $b = 0.809979 + 0.884446I$	$-1.51520 + 6.56162I$	0
$u = -0.201597 + 0.723825I$ $a = 0.407018 + 0.472911I$ $b = -0.99003 + 1.51453I$	$-2.41749 - 5.42731I$	$-7.02359 + 6.01187I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.201597 - 0.723825I$ $a = 0.407018 - 0.472911I$ $b = -0.99003 - 1.51453I$	$-2.41749 + 5.42731I$	$-7.02359 - 6.01187I$
$u = 1.163000 + 0.468877I$ $a = -2.63024 - 0.30133I$ $b = -1.65868 - 1.64014I$	$-9.70369 - 6.52499I$	0
$u = 1.163000 - 0.468877I$ $a = -2.63024 + 0.30133I$ $b = -1.65868 + 1.64014I$	$-9.70369 + 6.52499I$	0
$u = -0.686936 + 0.290469I$ $a = 0.31194 - 1.46125I$ $b = 0.142451 - 0.714960I$	$-1.21269 + 1.32793I$	$-6.02554 - 4.52788I$
$u = -0.686936 - 0.290469I$ $a = 0.31194 + 1.46125I$ $b = 0.142451 + 0.714960I$	$-1.21269 - 1.32793I$	$-6.02554 + 4.52788I$
$u = -1.152790 + 0.514748I$ $a = -0.96659 + 2.88563I$ $b = 1.14061 + 1.68141I$	$-5.16670 + 10.10120I$	0
$u = -1.152790 - 0.514748I$ $a = -0.96659 - 2.88563I$ $b = 1.14061 - 1.68141I$	$-5.16670 - 10.10120I$	0
$u = -0.736745$ $a = 1.06563$ $b = 0.319467$	-1.23735	-7.42040
$u = 0.254623 + 0.682236I$ $a = 0.490596 - 0.464241I$ $b = -0.733828 - 0.705892I$	$1.01632 + 1.94893I$	$-0.27362 - 2.41499I$
$u = 0.254623 - 0.682236I$ $a = 0.490596 + 0.464241I$ $b = -0.733828 + 0.705892I$	$1.01632 - 1.94893I$	$-0.27362 + 2.41499I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.237750 + 0.293203I$ $a = -1.24533 - 1.57655I$ $b = -0.89711 - 1.37506I$	$-12.4694 + 7.7567I$	0
$u = 1.237750 - 0.293203I$ $a = -1.24533 + 1.57655I$ $b = -0.89711 + 1.37506I$	$-12.4694 - 7.7567I$	0
$u = 1.253530 + 0.263632I$ $a = 0.02040 - 1.47913I$ $b = 0.199889 - 1.201490I$	$-12.02620 - 4.54379I$	0
$u = 1.253530 - 0.263632I$ $a = 0.02040 + 1.47913I$ $b = 0.199889 + 1.201490I$	$-12.02620 + 4.54379I$	0
$u = -1.256850 + 0.294449I$ $a = -0.74295 + 1.21599I$ $b = -0.466074 + 1.044560I$	$-7.69010 - 1.87443I$	0
$u = -1.256850 - 0.294449I$ $a = -0.74295 - 1.21599I$ $b = -0.466074 - 1.044560I$	$-7.69010 + 1.87443I$	0
$u = 0.066183 + 0.695054I$ $a = -0.405710 - 0.249698I$ $b = 1.56121 - 1.32211I$	$-6.61162 + 2.20383I$	$-12.68569 - 3.07320I$
$u = 0.066183 - 0.695054I$ $a = -0.405710 + 0.249698I$ $b = 1.56121 + 1.32211I$	$-6.61162 - 2.20383I$	$-12.68569 + 3.07320I$
$u = -1.186700 + 0.559365I$ $a = 0.89022 - 2.40681I$ $b = -1.10234 - 1.33333I$	$-10.6184 + 16.6559I$	0
$u = -1.186700 - 0.559365I$ $a = 0.89022 + 2.40681I$ $b = -1.10234 + 1.33333I$	$-10.6184 - 16.6559I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.196320 + 0.559287I$ $a = 0.61509 + 1.75869I$ $b = -0.769209 + 1.018600I$	$-5.84600 - 10.96250I$	0
$u = 1.196320 - 0.559287I$ $a = 0.61509 - 1.75869I$ $b = -0.769209 - 1.018600I$	$-5.84600 + 10.96250I$	0
$u = -1.198020 + 0.580415I$ $a = 1.025910 - 0.879632I$ $b = -0.129045 - 1.023280I$	$-9.82778 + 4.53798I$	0
$u = -1.198020 - 0.580415I$ $a = 1.025910 + 0.879632I$ $b = -0.129045 + 1.023280I$	$-9.82778 - 4.53798I$	0
$u = 0.654099$ $a = -2.68619$ $b = 0.513194$	-2.37176	2.33790
$u = -0.198330 + 0.594187I$ $a = 1.51239 + 0.35999I$ $b = 0.082687 + 0.549338I$	$-2.17011 + 0.43018I$	$-7.12298 + 0.05912I$
$u = -0.198330 - 0.594187I$ $a = 1.51239 - 0.35999I$ $b = 0.082687 - 0.549338I$	$-2.17011 - 0.43018I$	$-7.12298 - 0.05912I$
$u = -0.083118 + 0.598548I$ $a = -0.90282 + 1.22203I$ $b = 0.575442 + 0.552054I$	$-2.24291 - 0.96732I$	$-4.89699 - 0.16722I$
$u = -0.083118 - 0.598548I$ $a = -0.90282 - 1.22203I$ $b = 0.575442 - 0.552054I$	$-2.24291 + 0.96732I$	$-4.89699 + 0.16722I$
$u = 0.432980 + 0.381803I$ $a = 6.48861 + 2.17280I$ $b = -0.351355 + 0.254773I$	$-3.41757 + 0.22703I$	$4.7786 + 20.3751I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = \quad 0.432980 - 0.381803I$ $a = \quad 6.48861 - 2.17280I$ $b = -0.351355 - 0.254773I$	$-3.41757 - 0.22703I$	$4.7786 - 20.3751I$

II. $I_2^u = \langle b,\ 3u^2 + 5a - 7u + 6,\ u^3 - u^2 + 1 \rangle$

(i) Arc colorings

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

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u \\ u \end{pmatrix}$$

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

$$a_8 = \begin{pmatrix} -\frac{3}{5}u^2 + \frac{7}{5}u - \frac{6}{5} \\ 0 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -\frac{2}{5}u^2 + \frac{8}{5}u - \frac{4}{5} \\ \frac{2}{5}u^2 + \frac{2}{5}u - \frac{1}{5} \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^2 - 1 \\ -u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -\frac{2}{5}u^2 + \frac{8}{5}u - \frac{9}{5} \\ -\frac{3}{5}u^2 + \frac{2}{5}u - \frac{1}{5} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1 \\ -u^2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1 \\ -u^2 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{277}{25}u^2 + \frac{293}{25}u - \frac{119}{25}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^3 + u^2 - 1$
c_2, c_3	$u^3 + u^2 + 2u + 1$
c_4	u^3
c_5	$u^3 - u^2 + 1$
c_6	$(u-1)^3$
c_7	$5(5u^3 - 4u^2 + u - 1)$
c_8	$5(5u^3 - 11u^2 + 6u - 1)$
c_9	$(u+1)^3$
c_{10}	$u^3 - u^2 + 2u - 1$
c_{11}	$u^3 + 3u^2 + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^3 - y^2 + 2y - 1$
c_2, c_3, c_{10}	$y^3 + 3y^2 + 2y - 1$
c_4	y^3
c_6, c_9	$(y-1)^3$
c_7	$25(25y^3 - 6y^2 - 7y - 1)$
c_8	$25(25y^3 - 61y^2 + 14y - 1)$
c_{11}	$y^3 - 5y^2 + 10y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.877439 + 0.744862I$ $a = -0.100634 + 0.258522I$ $b = 0$	$1.37919 - 2.82812I$	$3.14050 - 5.75335I$
$u = 0.877439 - 0.744862I$ $a = -0.100634 - 0.258522I$ $b = 0$	$1.37919 + 2.82812I$	$3.14050 + 5.75335I$
$u = -0.754878$ $a = -2.59873$ $b = 0$	-2.75839	-19.9210

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^3+u^2-1)(u^{71}+2u^{70}+\cdots-2u-1)$
c_2	$(u^3+u^2+2u+1)(u^{71}+36u^{70}+\cdots+4u+1)$
c_3	$(u^3+u^2+2u+1)(u^{71}+2u^{70}+\cdots-4u-1)$
c_4	$u^3(u^{71}-3u^{70}+\cdots+660u+200)$
c_5	$(u^3-u^2+1)(u^{71}+2u^{70}+\cdots-2u-1)$
c_6	$((u-1)^3)(u^{71}-4u^{70}+\cdots+21u-25)$
c_7	$25(5u^3-4u^2+u-1)(5u^{71}-39u^{70}+\cdots+379583u+94103)$
c_8	$25(5u^3-11u^2+6u-1)(5u^{71}-6u^{70}+\cdots+231980u-42881)$
c_9	$((u+1)^3)(u^{71}-4u^{70}+\cdots+21u-25)$
c_{10}	$(u^3-u^2+2u-1)(u^{71}+2u^{70}+\cdots-4u-1)$
c_{11}	$(u^3+3u^2+2u-1)(u^{71}+6u^{70}+\cdots-6402u-847)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^3 - y^2 + 2y - 1)(y^{71} - 36y^{70} + \cdots + 4y - 1)$
c_2	$(y^3 + 3y^2 + 2y - 1)(y^{71} + 72y^{69} + \cdots + 16y - 1)$
c_3, c_{10}	$(y^3 + 3y^2 + 2y - 1)(y^{71} - 48y^{70} + \cdots + 4y - 1)$
c_4	$y^3(y^{71} + 21y^{70} + \cdots - 606000y - 40000)$
c_6, c_9	$((y-1)^3)(y^{71} - 58y^{70} + \cdots + 79841y - 625)$
c_7	$625(25y^3 - 6y^2 - 7y - 1)$ $\cdot (25y^{71} + 959y^{70} + \cdots - 181655598053y - 8855374609)$
c_8	$625(25y^3 - 61y^2 + 14y - 1)$ $\cdot (25y^{71} - 936y^{70} + \cdots + 36727842568y - 1838780161)$
c_{11}	$(y^3 - 5y^2 + 10y - 1)(y^{71} + 36y^{70} + \cdots + 2.22229 \times 10^7 y - 717409)$