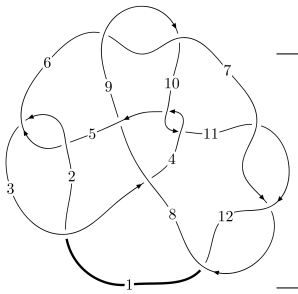
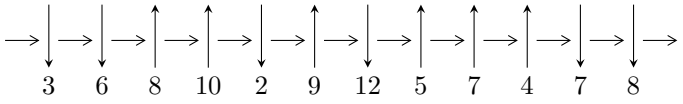
$12n_{0492}$ $(K12n_{0492})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$\underset{c_5}{2,5} \xrightarrow{} \underset{c_2}{6} \xrightarrow{} \underset{c_6}{3,9} \xrightarrow{} \underset{c_9}{7} \xrightarrow{} \underset{c_1}{10} \xrightarrow{} \underset{c_4}{1} \xrightarrow{} \underset{c_8}{4} \xrightarrow{} \underset{c_{12}}{8} \xrightarrow{} \underset{c_{11}}{12} \xrightarrow{} 11 \twoheadrightarrow c_3, c_7, c_{10}$$

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

$$I_1^u = \langle 4.46973 \times 10^{50} u^{60} + 8.99199 \times 10^{50} u^{59} + \cdots + 8.26421 \times 10^{50} b - 5.17817 \times 10^{50},$$
$$3.56747 \times 10^{51} u^{60} + 4.54307 \times 10^{51} u^{59} + \cdots + 1.57020 \times 10^{52} a - 1.57657 \times 10^{52},\ u^{61} + 2u^{60} + \cdots + 17u +$$
$$I_2^u = \langle u^{15} + u^{14} - 2u^{13} - 2u^{12} + 6u^{11} + 6u^{10} - 8u^9 - 6u^8 + 11u^7 + 9u^6 - 9u^5 - 5u^4 + 6u^3 + 3u^2 + b - 2u - 1,$$
$$u^{14} + 2u^{13} - u^{12} - 3u^{11} + 4u^{10} + 8u^9 - 3u^8 - 5u^7 + 7u^6 + 5u^5 - 3u^4 + 3u^2 + a - u,\ u^{17} + u^{16} + \cdots + u +$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 78 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. $I_1^u =$
$\langle \mathbf{4.47\times10^{50}u^{60}+8.99\times10^{50}u^{59}+\cdots+8.26\times10^{50}b-5.18\times10^{50},\ 3.57\times10^{51}u^{60}+4.54\times10^{51}u^{59}+\cdots+1.57\times10^{52}a-1.58\times10^{52},\ u^{61}+2u^{60}+\cdots+17u+19}\rangle$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u \\ -u^3+u \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -0.227198u^{60}-0.289331u^{59}+\cdots-26.0080u+1.00406 \\ -0.540853u^{60}-1.08806u^{59}+\cdots+4.86169u+0.626578 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0.253819u^{60}+0.465067u^{59}+\cdots-3.89004u+7.64807 \\ 0.300175u^{60}+0.771180u^{59}+\cdots-12.1668u-2.42640 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0.676302u^{60}+0.841602u^{59}+\cdots+3.47497u+9.49090 \\ 0.207184u^{60}+0.269966u^{59}+\cdots-4.37631u-0.968624 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u^3 \\ u^5-u^3+u \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -0.274794u^{60}-0.333191u^{59}+\cdots-3.80176u-15.2300 \\ -0.503752u^{60}-0.859618u^{59}+\cdots+9.74194u-3.86368 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} 0.313655u^{60}+0.798733u^{59}+\cdots-30.8697u+0.377479 \\ -0.540853u^{60}-1.08806u^{59}+\cdots+4.86169u+0.626578 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} -0.459255u^{60}-0.619696u^{59}+\cdots+4.13848u-10.2887 \\ 0.255017u^{60}+0.385918u^{59}+\cdots-11.3938u-6.86607 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -1.18571u^{60}-1.47546u^{59}+\cdots-4.66063u-37.2565 \\ -0.0486439u^{60}-0.362172u^{59}+\cdots+2.29122u-3.22234 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.599933u^{60}-0.940036u^{59}+\cdots-28.5387u+5.37229$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{61} + 18u^{60} + \cdots + 5229u + 361$
c_2, c_5	$u^{61} + 2u^{60} + \cdots + 17u + 19$
c_3	$u^{61} + 2u^{60} + \cdots + 82113u + 15047$
c_4, c_{10}	$u^{61} + 3u^{60} + \cdots + 21u + 1$
c_6, c_9	$u^{61} - 28u^{59} + \cdots - 4u + 1$
c_7, c_{11}, c_{12}	$u^{61} + u^{60} + \cdots + 15u - 1$
c_8	$u^{61} - u^{60} + \cdots + 5u - 11$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{61} + 58y^{60} + \cdots - 1648747y - 130321$
c_2, c_5	$y^{61} - 18y^{60} + \cdots + 5229y - 361$
c_3	$y^{61} - 72y^{60} + \cdots + 15660841481y - 226412209$
c_4, c_{10}	$y^{61} + 17y^{60} + \cdots + 63y - 1$
c_6, c_9	$y^{61} - 56y^{60} + \cdots + 94y - 1$
c_7, c_{11}, c_{12}	$y^{61} - 15y^{60} + \cdots + 31y - 1$
c_8	$y^{61} + y^{60} + \cdots + 7945y - 121$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.008560 + 0.099272I$ $a = -0.30905 - 1.85898I$ $b = 0.359420 - 0.718984I$	$-3.62853 - 2.81695I$	$-7.75571 + 7.59659I$
$u = 1.008560 - 0.099272I$ $a = -0.30905 + 1.85898I$ $b = 0.359420 + 0.718984I$	$-3.62853 + 2.81695I$	$-7.75571 - 7.59659I$
$u = 0.059768 + 1.029870I$ $a = 0.357240 + 0.027030I$ $b = 0.775249 + 0.356076I$	$3.37069 + 4.37380I$	$4.08170 - 9.15688I$
$u = 0.059768 - 1.029870I$ $a = 0.357240 - 0.027030I$ $b = 0.775249 - 0.356076I$	$3.37069 - 4.37380I$	$4.08170 + 9.15688I$
$u = -0.711308 + 0.756370I$ $a = 0.898738 + 0.163809I$ $b = -0.502080 + 0.422908I$	$2.16071 - 2.54963I$	$-1.92850 + 5.48932I$
$u = -0.711308 - 0.756370I$ $a = 0.898738 - 0.163809I$ $b = -0.502080 - 0.422908I$	$2.16071 + 2.54963I$	$-1.92850 - 5.48932I$
$u = -0.802317 + 0.516125I$ $a = -1.53275 + 0.59230I$ $b = 0.14998 + 1.42541I$	$-6.39239 + 2.05870I$	$-6.76486 - 3.26008I$
$u = -0.802317 - 0.516125I$ $a = -1.53275 - 0.59230I$ $b = 0.14998 - 1.42541I$	$-6.39239 - 2.05870I$	$-6.76486 + 3.26008I$
$u = 0.681279 + 0.639801I$ $a = 0.355489 - 0.164381I$ $b = -1.136570 - 0.305208I$	$2.72340 + 1.00029I$	$-0.33756 + 1.68143I$
$u = 0.681279 - 0.639801I$ $a = 0.355489 + 0.164381I$ $b = -1.136570 + 0.305208I$	$2.72340 - 1.00029I$	$-0.33756 - 1.68143I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.855118+0.666348I$ $a=\ 0.79912-1.53720I$ $b=\ 0.044913-1.261780I$	$-1.78842+2.57888I$	$3.59230-3.67922I$
$u=-0.855118-0.666348I$ $a=\ 0.79912+1.53720I$ $b=\ 0.044913+1.261780I$	$-1.78842-2.57888I$	$3.59230+3.67922I$
$u=-0.830799+0.768291I$ $a=\ 0.040905-0.410536I$ $b=\ 0.438873-0.240508I$	$-0.20731+2.69693I$	$-1.60164-3.85142I$
$u=-0.830799-0.768291I$ $a=\ 0.040905+0.410536I$ $b=\ 0.438873+0.240508I$	$-0.20731-2.69693I$	$-1.60164+3.85142I$
$u=-1.132350+0.015313I$ $a=\ 0.529981-0.317231I$ $b=\ 0.499234-0.170729I$	$-2.57618+0.03241I$	$-6.83473+2.23858I$
$u=-1.132350-0.015313I$ $a=\ 0.529981+0.317231I$ $b=\ 0.499234+0.170729I$	$-2.57618-0.03241I$	$-6.83473-2.23858I$
$u=\ 0.797110+0.332880I$ $a=\ 0.93154-2.92490I$ $b=\ 0.573126-0.489509I$	$1.86824-4.30118I$	$-1.43694+7.83913I$
$u=\ 0.797110-0.332880I$ $a=\ 0.93154+2.92490I$ $b=\ 0.573126+0.489509I$	$1.86824+4.30118I$	$-1.43694-7.83913I$
$u=-1.005330+0.593094I$ $a=\ 0.285708-1.177370I$ $b=-0.222145-0.767554I$	$-0.86882+2.72261I$	$-4.26405+0.I$
$u=-1.005330-0.593094I$ $a=\ 0.285708+1.177370I$ $b=-0.222145+0.767554I$	$-0.86882-2.72261I$	$-4.26405+0.I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.778504 + 0.873488I$ $a = 0.212728 + 0.508358I$ $b = -0.949362 + 0.147769I$	$4.30301 - 0.06144I$	$4.49581 + 0.I$
$u = 0.778504 - 0.873488I$ $a = 0.212728 - 0.508358I$ $b = -0.949362 - 0.147769I$	$4.30301 + 0.06144I$	$4.49581 + 0.I$
$u = -0.760268 + 0.241047I$ $a = -0.398024 + 1.076770I$ $b = -1.232000 + 0.398283I$	$1.36337 + 3.68980I$	$-4.58791 - 6.16767I$
$u = -0.760268 - 0.241047I$ $a = -0.398024 - 1.076770I$ $b = -1.232000 - 0.398283I$	$1.36337 - 3.68980I$	$-4.58791 + 6.16767I$
$u = 0.876318 + 0.829854I$ $a = -0.77583 - 1.74978I$ $b = 1.21040 - 1.31023I$	$7.73388 + 0.14159I$	0
$u = 0.876318 - 0.829854I$ $a = -0.77583 + 1.74978I$ $b = 1.21040 + 1.31023I$	$7.73388 - 0.14159I$	0
$u = 1.001920 + 0.674098I$ $a = -0.35058 - 1.68445I$ $b = 1.048960 - 0.498864I$	$1.72001 - 6.24237I$	0
$u = 1.001920 - 0.674098I$ $a = -0.35058 + 1.68445I$ $b = 1.048960 + 0.498864I$	$1.72001 + 6.24237I$	0
$u = -0.859996 + 0.852993I$ $a = -0.505439 + 0.295038I$ $b = -1.21247 + 1.10581I$	$9.10418 - 0.98120I$	0
$u = -0.859996 - 0.852993I$ $a = -0.505439 - 0.295038I$ $b = -1.21247 - 1.10581I$	$9.10418 + 0.98120I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.743198 + 0.258578I$ $a = 1.14961 + 2.70783I$ $b = -0.02378 + 1.65985I$	$-7.66046 - 1.07355I$	$-0.63774 + 8.35173I$
$u = 0.743198 - 0.258578I$ $a = 1.14961 - 2.70783I$ $b = -0.02378 - 1.65985I$	$-7.66046 + 1.07355I$	$-0.63774 - 8.35173I$
$u = -0.985859 + 0.708002I$ $a = -1.18958 + 1.16281I$ $b = 0.603722 + 0.517705I$	$1.33700 + 8.12439I$	$0. - 11.41912I$
$u = -0.985859 - 0.708002I$ $a = -1.18958 - 1.16281I$ $b = 0.603722 - 0.517705I$	$1.33700 - 8.12439I$	$0. + 11.41912I$
$u = -0.747298 + 0.958094I$ $a = 0.384523 - 0.093109I$ $b = 1.27040 - 1.04462I$	$8.45288 - 9.12237I$	0
$u = -0.747298 - 0.958094I$ $a = 0.384523 + 0.093109I$ $b = 1.27040 + 1.04462I$	$8.45288 + 9.12237I$	0
$u = 0.513333 + 0.577329I$ $a = 0.147645 - 0.303415I$ $b = -1.097740 - 0.294525I$	$2.71819 + 1.05648I$	$1.23406 + 1.60799I$
$u = 0.513333 - 0.577329I$ $a = 0.147645 + 0.303415I$ $b = -1.097740 + 0.294525I$	$2.71819 - 1.05648I$	$1.23406 - 1.60799I$
$u = 0.920582 + 0.813292I$ $a = -0.834573 - 0.068760I$ $b = -1.38008 - 1.21627I$	$7.59405 - 6.27627I$	0
$u = 0.920582 - 0.813292I$ $a = -0.834573 + 0.068760I$ $b = -1.38008 + 1.21627I$	$7.59405 + 6.27627I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.188700 + 0.367540I$ $a = -0.51935 + 1.50281I$ $b = -0.734725 + 0.839423I$	$-0.58425 - 9.12112I$	0
$u = 1.188700 - 0.367540I$ $a = -0.51935 - 1.50281I$ $b = -0.734725 - 0.839423I$	$-0.58425 + 9.12112I$	0
$u = -0.943245 + 0.820348I$ $a = -0.77128 + 1.86248I$ $b = 1.05879 + 1.19926I$	$8.84141 + 7.20713I$	0
$u = -0.943245 - 0.820348I$ $a = -0.77128 - 1.86248I$ $b = 1.05879 - 1.19926I$	$8.84141 - 7.20713I$	0
$u = 0.816581 + 0.959000I$ $a = 0.543543 + 0.025883I$ $b = 1.20038 + 0.96984I$	$9.60140 + 1.01873I$	0
$u = 0.816581 - 0.959000I$ $a = 0.543543 - 0.025883I$ $b = 1.20038 - 0.96984I$	$9.60140 - 1.01873I$	0
$u = 0.729689 + 0.092257I$ $a = -2.17992 - 1.30658I$ $b = 0.296181 - 0.865356I$	$-4.76315 - 0.37609I$	$-6.92192 - 3.20821I$
$u = 0.729689 - 0.092257I$ $a = -2.17992 + 1.30658I$ $b = 0.296181 + 0.865356I$	$-4.76315 + 0.37609I$	$-6.92192 + 3.20821I$
$u = -0.958783 + 0.851896I$ $a = 0.574031 - 0.735538I$ $b = -0.272425 - 0.985135I$	$-0.94086 + 3.29997I$	0
$u = -0.958783 - 0.851896I$ $a = 0.574031 + 0.735538I$ $b = -0.272425 + 0.985135I$	$-0.94086 - 3.29997I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.008090 + 0.801211I$ $a = 0.049974 - 0.714510I$ $b = 1.004090 - 0.082477I$	$3.59655 - 6.16597I$	0
$u = 1.008090 - 0.801211I$ $a = 0.049974 + 0.714510I$ $b = 1.004090 + 0.082477I$	$3.59655 + 6.16597I$	0
$u = -0.634593 + 0.305711I$ $a = 1.70511 + 2.78485I$ $b = 0.475869 + 0.583891I$	$1.76589 - 1.46394I$	$-2.18428 - 1.39749I$
$u = -0.634593 - 0.305711I$ $a = 1.70511 - 2.78485I$ $b = 0.475869 - 0.583891I$	$1.76589 + 1.46394I$	$-2.18428 + 1.39749I$
$u = -1.32936$ $a = -0.425742$ $b = -0.130836$	-2.35229	0
$u = 1.022890 + 0.850141I$ $a = 0.46632 + 1.56053I$ $b = -1.17031 + 1.15196I$	$8.93314 - 7.65090I$	0
$u = 1.022890 - 0.850141I$ $a = 0.46632 - 1.56053I$ $b = -1.17031 - 1.15196I$	$8.93314 + 7.65090I$	0
$u = -1.054050 + 0.811352I$ $a = 0.55964 - 1.79633I$ $b = -1.23639 - 1.18766I$	$7.4752 + 15.6144I$	0
$u = -1.054050 - 0.811352I$ $a = 0.55964 + 1.79633I$ $b = -1.23639 + 1.18766I$	$7.4752 - 15.6144I$	0
$u = -0.200523 + 0.477929I$ $a = 0.745281 - 0.474801I$ $b = -0.274077 - 0.499104I$	$0.075701 + 1.180500I$	$0.98721 - 5.73205I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.200523-0.477929I$		
$a=\ \ 0.745281+0.474801I$	$0.075701-1.180500I$	$0.98721+5.73205I$
$b=-0.274077+0.499104I$		

II.

$\boldsymbol{I_2^u = \langle u^{15}+u^{14}+\cdots+b-1,\ u^{14}+2u^{13}+\cdots+a-u,\ u^{17}+u^{16}+\cdots+u+1\rangle}$

(i) Arc colorings

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

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

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

$$a_3 = \begin{pmatrix} -u \\ -u^3+u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u^{14}-2u^{13}+\cdots-3u^2+u \\ -u^{15}-u^{14}+\cdots+2u+1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 2u^{16}+u^{15}+\cdots-11u^2+3 \\ u^{13}+u^{12}+\cdots-u^2+u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -2u^{16}-2u^{15}+\cdots+u+1 \\ -u^{16}-u^{15}+\cdots-2u^2+1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^3 \\ u^5-u^3+u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} u^{16}+3u^{15}+\cdots-6u-2 \\ u^{16}+u^{15}+\cdots-5u^2-2u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} u^{15}-4u^{13}+\cdots-u-1 \\ -u^{15}-u^{14}+\cdots+2u+1 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u^{16}+u^{15}+\cdots+8u^2-2 \\ 2u^{16}+2u^{15}+\cdots-3u^2-u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{16}+3u^{14}+\cdots-2u^2+2 \\ u^{16}+u^{15}+\cdots-6u^2+1 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -4u^{16}+u^{15}+11u^{14}-10u^{13}-33u^{12}+26u^{11}+60u^{10}-63u^9-83u^8+74u^7+83u^6-77u^5-57u^4+42u^3+26u^2-16u-13$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 7u^{16} + \cdots + 7u - 1$
c_2	$u^{17} - u^{16} + \cdots + u - 1$
c_3	$u^{17} + u^{16} + \cdots + u - 1$
c_4	$u^{17} + 8u^{15} + \cdots + u + 1$
c_5	$u^{17} + u^{16} + \cdots + u + 1$
c_6	$u^{17} + u^{16} + \cdots - 2u + 3$
c_7	$u^{17} - 4u^{16} + \cdots + u - 1$
c_8	$u^{17} + 6u^{15} + \cdots + u + 1$
c_9	$u^{17} - u^{16} + \cdots - 2u - 3$
c_{10}	$u^{17} + 8u^{15} + \cdots + u - 1$
c_{11}, c_{12}	$u^{17} + 4u^{16} + \cdots + u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} + 13y^{16} + \cdots - 13y - 1$
c_2, c_5	$y^{17} - 7y^{16} + \cdots + 7y - 1$
c_3	$y^{17} - y^{16} + \cdots + 23y - 1$
c_4, c_{10}	$y^{17} + 16y^{16} + \cdots - 15y - 1$
c_6, c_9	$y^{17} - 17y^{16} + \cdots + 76y - 9$
c_7, c_{11}, c_{12}	$y^{17} - 16y^{16} + \cdots + 9y - 1$
c_8	$y^{17} + 12y^{16} + \cdots + 3y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.671850 + 0.699249I$ $a = 0.841267 - 0.388532I$ $b = -0.903817 - 0.063102I$	$3.25147 + 1.97750I$	$4.64322 - 3.77889I$
$u = 0.671850 - 0.699249I$ $a = 0.841267 + 0.388532I$ $b = -0.903817 + 0.063102I$	$3.25147 - 1.97750I$	$4.64322 + 3.77889I$
$u = 0.866153 + 0.652957I$ $a = 0.59645 + 1.79019I$ $b = 0.053159 + 1.090200I$	$-2.38366 - 2.53905I$	$-11.16316 + 2.70355I$
$u = 0.866153 - 0.652957I$ $a = 0.59645 - 1.79019I$ $b = 0.053159 - 1.090200I$	$-2.38366 + 2.53905I$	$-11.16316 - 2.70355I$
$u = -0.866800 + 0.682644I$ $a = 1.38670 - 1.09683I$ $b = 0.04620 - 1.82956I$	$-5.11635 + 2.63302I$	$-0.67661 - 3.79445I$
$u = -0.866800 - 0.682644I$ $a = 1.38670 + 1.09683I$ $b = 0.04620 + 1.82956I$	$-5.11635 - 2.63302I$	$-0.67661 + 3.79445I$
$u = -0.841839 + 0.249282I$ $a = -1.80507 + 0.60352I$ $b = 0.142712 + 0.798548I$	$-4.69017 + 1.10526I$	$-5.39958 - 6.02313I$
$u = -0.841839 - 0.249282I$ $a = -1.80507 - 0.60352I$ $b = 0.142712 - 0.798548I$	$-4.69017 - 1.10526I$	$-5.39958 + 6.02313I$
$u = 0.790910 + 0.155131I$ $a = -1.28257 - 2.60669I$ $b = 0.14748 - 1.56229I$	$-8.03189 - 0.67257I$	$-11.87928 - 2.66967I$
$u = 0.790910 - 0.155131I$ $a = -1.28257 + 2.60669I$ $b = 0.14748 + 1.56229I$	$-8.03189 + 0.67257I$	$-11.87928 + 2.66967I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.015230 + 0.682788I$ $a = -0.35180 - 1.41265I$ $b = 0.848573 - 0.216469I$	$2.19989 - 7.34377I$	$1.56348 + 8.60649I$
$u = 1.015230 - 0.682788I$ $a = -0.35180 + 1.41265I$ $b = 0.848573 + 0.216469I$	$2.19989 + 7.34377I$	$1.56348 - 8.60649I$
$u = -1.30846$ $a = 0.668334$ $b = 0.491899$	-2.10341	15.5530
$u = -0.448167 + 0.451140I$ $a = -1.27164 + 1.39509I$ $b = -0.799335 + 0.224628I$	$2.24044 + 2.96010I$	$2.17241 - 2.41528I$
$u = -0.448167 - 0.451140I$ $a = -1.27164 - 1.39509I$ $b = -0.799335 - 0.224628I$	$2.24044 - 2.96010I$	$2.17241 + 2.41528I$
$u = -1.033110 + 0.897117I$ $a = -0.447483 + 0.628029I$ $b = 0.219084 + 0.822435I$	$-1.22245 + 3.54950I$	$-12.5372 - 14.2971I$
$u = -1.033110 - 0.897117I$ $a = -0.447483 - 0.628029I$ $b = 0.219084 - 0.822435I$	$-1.22245 - 3.54950I$	$-12.5372 + 14.2971I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17}-7u^{16}+\cdots+7u-1)(u^{61}+18u^{60}+\cdots+5229u+361)$
c_2	$(u^{17}-u^{16}+\cdots+u-1)(u^{61}+2u^{60}+\cdots+17u+19)$
c_3	$(u^{17}+u^{16}+\cdots+u-1)(u^{61}+2u^{60}+\cdots+82113u+15047)$
c_4	$(u^{17}+8u^{15}+\cdots+u+1)(u^{61}+3u^{60}+\cdots+21u+1)$
c_5	$(u^{17}+u^{16}+\cdots+u+1)(u^{61}+2u^{60}+\cdots+17u+19)$
c_6	$(u^{17}+u^{16}+\cdots-2u+3)(u^{61}-28u^{59}+\cdots-4u+1)$
c_7	$(u^{17}-4u^{16}+\cdots+u-1)(u^{61}+u^{60}+\cdots+15u-1)$
c_8	$(u^{17}+6u^{15}+\cdots+u+1)(u^{61}-u^{60}+\cdots+5u-11)$
c_9	$(u^{17}-u^{16}+\cdots-2u-3)(u^{61}-28u^{59}+\cdots-4u+1)$
c_{10}	$(u^{17}+8u^{15}+\cdots+u-1)(u^{61}+3u^{60}+\cdots+21u+1)$
c_{11}, c_{12}	$(u^{17}+4u^{16}+\cdots+u+1)(u^{61}+u^{60}+\cdots+15u-1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17}+13y^{16}+\cdots-13y-1)$ $\cdot(y^{61}+58y^{60}+\cdots-1648747y-130321)$
c_2, c_5	$(y^{17}-7y^{16}+\cdots+7y-1)(y^{61}-18y^{60}+\cdots+5229y-361)$
c_3	$(y^{17}-y^{16}+\cdots+23y-1)$ $\cdot(y^{61}-72y^{60}+\cdots+15660841481y-226412209)$
c_4, c_{10}	$(y^{17}+16y^{16}+\cdots-15y-1)(y^{61}+17y^{60}+\cdots+63y-1)$
c_6, c_9	$(y^{17}-17y^{16}+\cdots+76y-9)(y^{61}-56y^{60}+\cdots+94y-1)$
c_7, c_{11}, c_{12}	$(y^{17}-16y^{16}+\cdots+9y-1)(y^{61}-15y^{60}+\cdots+31y-1)$
c_8	$(y^{17}+12y^{16}+\cdots+3y-1)(y^{61}+y^{60}+\cdots+7945y-121)$