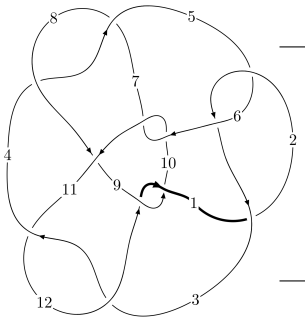
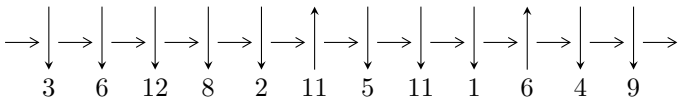
$12n_{0545}$ $(K12n_{0545})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle 4.07415 \times 10^{97} u^{57} - 1.87667 \times 10^{98} u^{56} + \cdots + 6.83675 \times 10^{98} b - 3.94295 \times 10^{98},$$
$$- 8.87267 \times 10^{97} u^{57} + 3.53450 \times 10^{98} u^{56} + \cdots + 6.83675 \times 10^{98} a + 9.76518 \times 10^{98},\ u^{58} - 4u^{57} + \cdots + 6u +$$
$$I_2^u = \langle -2u^{15} + 6u^{14} + \cdots + b + 1,$$
$$- u^{13} + 3u^{12} - 10u^{11} + 17u^{10} - 29u^9 + 31u^8 - 36u^7 + 27u^6 - 29u^5 + 18u^4 - 17u^3 + 6u^2 + a - 3u,$$
$$u^{16} - 3u^{15} + \cdots - u + 1\rangle$$

* 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.

$\boldsymbol{I_1^u = \langle 4.07\times 10^{97}u^{57} - 1.88\times 10^{98}u^{56} + \cdots + 6.84\times 10^{98}b - 3.94\times 10^{98},\ -8.87\times 10^{97}u^{57} + 3.53\times 10^{98}u^{56} + \cdots + 6.84\times 10^{98}a + 9.77\times 10^{98},\ u^{58} - 4u^{57} + \cdots + 6u + 4\rangle}$

(i) Arc colorings

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

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

$$a_5 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.129779u^{57} - 0.516986u^{56} + \cdots + 5.18894u - 1.42834 \\ -0.0595919u^{57} + 0.274498u^{56} + \cdots + 1.46859u + 0.576728 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.00288585u^{57} + 0.0503023u^{56} + \cdots - 2.22480u - 1.52939 \\ -0.0906534u^{57} + 0.405030u^{56} + \cdots + 1.10469u + 0.502037 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.189371u^{57} - 0.791484u^{56} + \cdots + 3.72034u - 2.00506 \\ -0.0595919u^{57} + 0.274498u^{56} + \cdots + 1.46859u + 0.576728 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0387990u^{57} - 0.162896u^{56} + \cdots - 3.18685u - 1.73013 \\ -0.192685u^{57} + 0.853552u^{56} + \cdots + 0.855020u + 1.27477 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -0.296992u^{57} + 0.998359u^{56} + \cdots - 10.6074u - 1.68008 \\ 0.171483u^{57} - 0.586975u^{56} + \cdots + 8.98917u + 2.03171 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.0524169u^{57} - 0.224873u^{56} + \cdots - 1.55050u - 2.18646 \\ -0.174759u^{57} + 0.745226u^{56} + \cdots + 0.209991u + 1.01830 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.342530u^{57} + 1.40424u^{56} + \cdots - 3.12486u + 1.77424 \\ 0.141129u^{57} - 0.526127u^{56} + \cdots + 5.69791u + 0.00196869 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.103749u^{57} + 0.491535u^{56} + \cdots + 8.67337u + 0.492109 \\ 0.137791u^{57} - 0.597731u^{56} + \cdots + 2.06345u - 1.32119 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.123076u^{57} - 0.812943u^{56} + \cdots - 17.7171u - 16.8383$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{58}+41u^{57}+\cdots-191u+169$
c_2, c_5	$u^{58}+u^{57}+\cdots-37u-13$
c_3, c_{11}	$u^{58}-3u^{57}+\cdots-u-17$
c_4, c_7	$u^{58}-4u^{57}+\cdots+6u+4$
c_6, c_{10}	$u^{58}+3u^{57}+\cdots-16568u+2143$
c_8	$u^{58}+u^{57}+\cdots+202u+3$
c_9, c_{12}	$u^{58}+3u^{57}+\cdots+7097u+431$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{58} - 37y^{57} + \cdots - 1807601y + 28561$
c_2, c_5	$y^{58} - 41y^{57} + \cdots + 191y + 169$
c_3, c_{11}	$y^{58} + 47y^{57} + \cdots - 171y + 289$
c_4, c_7	$y^{58} + 18y^{57} + \cdots + 356y + 16$
c_6, c_{10}	$y^{58} + 65y^{57} + \cdots - 280143286y + 4592449$
c_8	$y^{58} - 15y^{57} + \cdots - 60898y + 9$
c_9, c_{12}	$y^{58} - 49y^{57} + \cdots - 11167097y + 185761$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.633756 + 0.791145I$ $a = -0.887765 + 0.616824I$ $b = -0.553388 + 0.628935I$	$-3.87656 - 0.61696I$	$-11.92005 - 0.88689I$
$u = 0.633756 - 0.791145I$ $a = -0.887765 - 0.616824I$ $b = -0.553388 - 0.628935I$	$-3.87656 + 0.61696I$	$-11.92005 + 0.88689I$
$u = 0.747067 + 0.601176I$ $a = -1.51970 - 0.38331I$ $b = -0.401468 - 0.201550I$	$-4.20974 - 3.93817I$	$-13.2121 + 6.9659I$
$u = 0.747067 - 0.601176I$ $a = -1.51970 + 0.38331I$ $b = -0.401468 + 0.201550I$	$-4.20974 + 3.93817I$	$-13.2121 - 6.9659I$
$u = 0.480297 + 0.959333I$ $a = -1.99240 + 0.86576I$ $b = -0.172651 - 0.899004I$	$-3.54839 - 3.84914I$	$-10.22465 + 4.74982I$
$u = 0.480297 - 0.959333I$ $a = -1.99240 - 0.86576I$ $b = -0.172651 + 0.899004I$	$-3.54839 + 3.84914I$	$-10.22465 - 4.74982I$
$u = -0.521709 + 0.983940I$ $a = 1.54639 - 0.06752I$ $b = 0.506281 - 1.185660I$	$0.09858 + 7.47040I$	$-8.00000 - 8.36343I$
$u = -0.521709 - 0.983940I$ $a = 1.54639 + 0.06752I$ $b = 0.506281 + 1.185660I$	$0.09858 - 7.47040I$	$-8.00000 + 8.36343I$
$u = 0.503661 + 0.728248I$ $a = -1.66274 - 0.02895I$ $b = -0.391966 - 1.295650I$	$2.85966 - 4.49859I$	$-1.23708 + 2.46876I$
$u = 0.503661 - 0.728248I$ $a = -1.66274 + 0.02895I$ $b = -0.391966 + 1.295650I$	$2.85966 + 4.49859I$	$-1.23708 - 2.46876I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.594982+0.640753I$ $a=\ 0.969927-0.024407I$ $b=\ 0.339779+0.189097I$	$-0.55040+1.69114I$	$-3.72847-5.08829I$
$u=-0.594982-0.640753I$ $a=\ 0.969927+0.024407I$ $b=\ 0.339779-0.189097I$	$-0.55040-1.69114I$	$-3.72847+5.08829I$
$u=-0.730255+0.859792I$ $a=-0.481459+0.177345I$ $b=-0.202364+1.025230I$	$1.91016+2.82560I$	$-8.00000+0.I$
$u=-0.730255-0.859792I$ $a=-0.481459-0.177345I$ $b=-0.202364-1.025230I$	$1.91016-2.82560I$	$-8.00000+0.I$
$u=-0.219621+0.839350I$ $a=\ 1.130710+0.505098I$ $b=\ 0.843328+0.336352I$	$-2.59431+2.44159I$	$-7.94322-3.82016I$
$u=-0.219621-0.839350I$ $a=\ 1.130710-0.505098I$ $b=\ 0.843328-0.336352I$	$-2.59431-2.44159I$	$-7.94322+3.82016I$
$u=\ 0.898691+0.720344I$ $a=\ 0.437549-0.200217I$ $b=\ 0.662131-1.245830I$	$-7.44986-3.49551I$	0
$u=\ 0.898691-0.720344I$ $a=\ 0.437549+0.200217I$ $b=\ 0.662131+1.245830I$	$-7.44986+3.49551I$	0
$u=\ 0.367889+0.761915I$ $a=\ 1.191700+0.232164I$ $b=\ 0.002717+1.140600I$	$3.25433+1.08651I$	$-2.33651-2.83520I$
$u=\ 0.367889-0.761915I$ $a=\ 1.191700-0.232164I$ $b=\ 0.002717-1.140600I$	$3.25433-1.08651I$	$-2.33651+2.83520I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.808356$ $a=\ \ 1.77037$ $b=\ \ 0.734307$	-5.93820	-16.7950
$u=-0.119623+1.194280I$ $a=-0.126368-1.332700I$ $b=-0.08348+1.49201I$	$8.29523+3.26345I$	0
$u=-0.119623-1.194280I$ $a=-0.126368+1.332700I$ $b=-0.08348-1.49201I$	$8.29523-3.26345I$	0
$u=-0.317704+1.163150I$ $a=\ \ 0.017678-0.187020I$ $b=-0.082658+0.494670I$	$1.81717+2.37754I$	0
$u=-0.317704-1.163150I$ $a=\ \ 0.017678+0.187020I$ $b=-0.082658-0.494670I$	$1.81717-2.37754I$	0
$u=-1.087360+0.583319I$ $a=-0.335602-0.201290I$ $b=-0.581501-1.162890I$	$-3.42807-1.99613I$	0
$u=-1.087360-0.583319I$ $a=-0.335602+0.201290I$ $b=-0.581501+1.162890I$	$-3.42807+1.99613I$	0
$u=\ \ 0.187149+1.276260I$ $a=\ \ 0.277466-0.128726I$ $b=\ \ 0.064672+1.355790I$	$3.33606-0.14941I$	0
$u=\ \ 0.187149-1.276260I$ $a=\ \ 0.277466+0.128726I$ $b=\ \ 0.064672-1.355790I$	$3.33606+0.14941I$	0
$u=-0.697744+0.126410I$ $a=\ \ 1.99664-1.33804I$ $b=\ \ 0.277967-1.258560I$	$-2.06001+3.68426I$	$-11.27363-1.69816I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.697744-0.126410I$ $a=1.99664+1.33804I$ $b=0.277967+1.258560I$	$-2.06001-3.68426I$	$-11.27363+1.69816I$
$u=0.759635+1.129180I$ $a=1.29689-0.78536I$ $b=0.43433+1.40722I$	$-6.14642-2.75220I$	0
$u=0.759635-1.129180I$ $a=1.29689+0.78536I$ $b=0.43433-1.40722I$	$-6.14642+2.75220I$	0
$u=-1.001480+0.973107I$ $a=-0.832664-0.380632I$ $b=-1.023700+0.164160I$	$-6.48849+3.63570I$	0
$u=-1.001480-0.973107I$ $a=-0.832664+0.380632I$ $b=-1.023700-0.164160I$	$-6.48849-3.63570I$	0
$u=-0.859580+1.106170I$ $a=1.096860+0.046929I$ $b=0.198273-1.156390I$	$2.21851+3.93693I$	0
$u=-0.859580-1.106170I$ $a=1.096860-0.046929I$ $b=0.198273+1.156390I$	$2.21851-3.93693I$	0
$u=0.974228+1.008910I$ $a=0.926636-0.331530I$ $b=1.073470+0.135176I$	$-10.8043-9.5417I$	0
$u=0.974228-1.008910I$ $a=0.926636+0.331530I$ $b=1.073470-0.135176I$	$-10.8043+9.5417I$	0
$u=1.03423+0.96722I$ $a=0.813755-0.507387I$ $b=0.952238+0.123695I$	$-10.98340+2.23509I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.03423 - 0.96722I$ $a = 0.813755 + 0.507387I$ $b = 0.952238 - 0.123695I$	$-10.98340 - 2.23509I$	0
$u = 1.16247 + 0.82462I$ $a = -1.067170 - 0.448360I$ $b = -0.221458 - 1.288520I$	$0.24583 - 6.42034I$	0
$u = 1.16247 - 0.82462I$ $a = -1.067170 + 0.448360I$ $b = -0.221458 + 1.288520I$	$0.24583 + 6.42034I$	0
$u = 1.27692 + 0.71765I$ $a = 0.292225 - 0.279237I$ $b = 0.494403 - 1.216990I$	$-7.61679 + 7.37751I$	0
$u = 1.27692 - 0.71765I$ $a = 0.292225 + 0.279237I$ $b = 0.494403 + 1.216990I$	$-7.61679 - 7.37751I$	0
$u = -0.84042 + 1.21729I$ $a = -1.183540 - 0.496027I$ $b = -0.47727 + 1.42425I$	$-1.49972 + 9.01325I$	0
$u = -0.84042 - 1.21729I$ $a = -1.183540 + 0.496027I$ $b = -0.47727 - 1.42425I$	$-1.49972 - 9.01325I$	0
$u = -0.266410 + 0.401142I$ $a = -2.92496 + 3.15692I$ $b = 0.112223 + 1.152450I$	$-1.72433 - 3.71273I$	$-7.24791 + 1.15995I$
$u = -0.266410 - 0.401142I$ $a = -2.92496 - 3.15692I$ $b = 0.112223 - 1.152450I$	$-1.72433 + 3.71273I$	$-7.24791 - 1.15995I$
$u = 0.91423 + 1.22132I$ $a = 1.259520 - 0.318765I$ $b = 0.49545 + 1.41482I$	$-5.9451 - 15.1173I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.91423 - 1.22132I$ $a = 1.259520 + 0.318765I$ $b = 0.49545 - 1.41482I$	$-5.9451 + 15.1173I$	0
$u = 0.058858 + 0.410475I$ $a = -0.92100 + 1.87652I$ $b = -0.14583 - 1.62296I$	$5.20134 - 2.93181I$	$-11.08507 + 6.44707I$
$u = 0.058858 - 0.410475I$ $a = -0.92100 - 1.87652I$ $b = -0.14583 + 1.62296I$	$5.20134 + 2.93181I$	$-11.08507 - 6.44707I$
$u = 0.145156 + 0.296103I$ $a = -1.54845 + 1.00675I$ $b = -0.777584 + 0.065221I$	$-1.097500 - 0.167840I$	$-6.15459 - 2.52205I$
$u = 0.145156 - 0.296103I$ $a = -1.54845 - 1.00675I$ $b = -0.777584 - 0.065221I$	$-1.097500 + 0.167840I$	$-6.15459 + 2.52205I$
$u = -0.329275$ $a = 0.0370472$ $b = -0.490183$	-0.882045	-11.0120
$u = -0.31854 + 1.65683I$ $a = 0.326154 + 0.658457I$ $b = 0.035991 - 1.065230I$	$3.20371 + 2.59445I$	0
$u = -0.31854 - 1.65683I$ $a = 0.326154 - 0.658457I$ $b = 0.035991 + 1.065230I$	$3.20371 - 2.59445I$	0

II.

$\boldsymbol{I_2^u = \langle -2u^{15}+6u^{14}+\cdots+b+1,\ -u^{13}+3u^{12}+\cdots+a-3u,\ u^{16}-3u^{15}+\cdots-u+1\rangle}$

(i) Arc colorings

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

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

$$a_5 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{13} - 3u^{12} + \cdots - 6u^2 + 3u \\ 2u^{15} - 6u^{14} + \cdots + 6u - 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 2u^{15} - 5u^{14} + \cdots + 2u + 2 \\ -u^{14} + 3u^{13} + \cdots + 3u - 1 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -2u^{15} + 6u^{14} + \cdots - 3u + 1 \\ 2u^{15} - 6u^{14} + \cdots + 6u - 1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -5u^{15} + 16u^{14} + \cdots - u - 2 \\ 2u^{15} - 6u^{14} + \cdots + 5u - 1 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} u^{15} - 5u^{14} + \cdots - 12u^2 - 3 \\ 2u^{14} - 5u^{13} + \cdots - 2u + 5 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 2u^{15} - 5u^{14} + \cdots + 6u^2 + 2 \\ -2u^{15} + 5u^{14} + \cdots - u^2 - 3u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -2u^{14} + 5u^{13} + \cdots + 6u - 5 \\ -2u^{15} + 8u^{14} + \cdots - 6u + 4 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 4u^{15} - 13u^{14} + \cdots + 12u - 1 \\ -2u^{15} + 6u^{14} + \cdots - 3u^2 - 1 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -4u^{15} + 21u^{14} - 66u^{13} + 162u^{12} - 280u^{11} + 433u^{10} - 498u^9 + 559u^8 - 469u^7 + 452u^6 - 292u^5 + 262u^4 - 114u^3 + 85u^2 - 16u + 9$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - 10u^{15} + \cdots - 14u + 1$
c_2	$u^{16} - 5u^{14} + \cdots - 7u^2 + 1$
c_3	$u^{16} + 2u^{15} + \cdots + 4u + 1$
c_4	$u^{16} - 3u^{15} + \cdots - u + 1$
c_5	$u^{16} - 5u^{14} + \cdots - 7u^2 + 1$
c_6	$u^{16} + 4u^{15} + \cdots + 9u + 1$
c_7	$u^{16} + 3u^{15} + \cdots + u + 1$
c_8	$u^{16} - 12u^{15} + \cdots + 3u + 1$
c_9	$u^{16} + 4u^{15} + \cdots + 2u + 1$
c_{10}	$u^{16} - 4u^{15} + \cdots - 9u + 1$
c_{11}	$u^{16} - 2u^{15} + \cdots - 4u + 1$
c_{12}	$u^{16} - 4u^{15} + \cdots - 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{16}+2y^{15}+\cdots-14y+1$
c_2, c_5	$y^{16}-10y^{15}+\cdots-14y+1$
c_3, c_{11}	$y^{16}+18y^{15}+\cdots+12y+1$
c_4, c_7	$y^{16}+13y^{15}+\cdots+11y+1$
c_6, c_{10}	$y^{16}+4y^{15}+\cdots-15y+1$
c_8	$y^{16}-4y^{15}+\cdots-31y+1$
c_9, c_{12}	$y^{16}-10y^{15}+\cdots-14y+1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.522632+0.681729I$ $a=\ \ 3.01304+0.08828I$ $b=\ \ 0.193850-1.240090I$	$-1.67890+4.79509I$	$-7.33702-7.63468I$
$u=-0.522632-0.681729I$ $a=\ \ 3.01304-0.08828I$ $b=\ \ 0.193850+1.240090I$	$-1.67890-4.79509I$	$-7.33702+7.63468I$
$u=\ \ 0.505824+0.614300I$ $a=-1.018070+0.161240I$ $b=-0.775312+0.317843I$	$-1.40771-0.97837I$	$-9.52942+3.04465I$
$u=\ \ 0.505824-0.614300I$ $a=-1.018070-0.161240I$ $b=-0.775312-0.317843I$	$-1.40771+0.97837I$	$-9.52942-3.04465I$
$u=\ \ 0.133841+1.204570I$ $a=-0.35849+1.55300I$ $b=-0.07812-1.52109I$	$7.65003-3.66078I$	$-7.24903+5.37880I$
$u=\ \ 0.133841-1.204570I$ $a=-0.35849-1.55300I$ $b=-0.07812+1.52109I$	$7.65003+3.66078I$	$-7.24903-5.37880I$
$u=\ \ 0.895544+0.875535I$ $a=-1.117880-0.176389I$ $b=-0.333939-1.201080I$	$1.48311-4.99831I$	$-7.51711+5.80874I$
$u=\ \ 0.895544-0.875535I$ $a=-1.117880+0.176389I$ $b=-0.333939+1.201080I$	$1.48311+4.99831I$	$-7.51711-5.80874I$
$u=\ \ 0.122314+0.707690I$ $a=\ \ 0.010586-0.499972I$ $b=-0.15573+1.61681I$	$5.66385+2.53909I$	$-0.82857+1.24715I$
$u=\ \ 0.122314-0.707690I$ $a=\ \ 0.010586+0.499972I$ $b=-0.15573-1.61681I$	$5.66385-2.53909I$	$-0.82857-1.24715I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.269294 + 1.323520I$ $a = -0.201461 + 0.527298I$ $b = -0.185206 - 0.303507I$	$1.27597 - 2.61649I$	$-13.2971 + 5.8003I$
$u = 0.269294 - 1.323520I$ $a = -0.201461 - 0.527298I$ $b = -0.185206 + 0.303507I$	$1.27597 + 2.61649I$	$-13.2971 - 5.8003I$
$u = -0.283411 + 0.533145I$ $a = 2.59418 + 0.46203I$ $b = 0.388010 + 0.584237I$	$-4.14032 + 2.65100I$	$-12.96730 - 1.15952I$
$u = -0.283411 - 0.533145I$ $a = 2.59418 - 0.46203I$ $b = 0.388010 - 0.584237I$	$-4.14032 - 2.65100I$	$-12.96730 + 1.15952I$
$u = 0.37923 + 1.60128I$ $a = 0.078082 - 0.226823I$ $b = -0.053550 + 1.235140I$	$4.31342 - 1.80529I$	$-1.27447 + 2.27954I$
$u = 0.37923 - 1.60128I$ $a = 0.078082 + 0.226823I$ $b = -0.053550 - 1.235140I$	$4.31342 + 1.80529I$	$-1.27447 - 2.27954I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{16}-10u^{15}+\cdots-14u+1)(u^{58}+41u^{57}+\cdots-191u+169)$
c_2	$(u^{16}-5u^{14}+\cdots-7u^2+1)(u^{58}+u^{57}+\cdots-37u-13)$
c_3	$(u^{16}+2u^{15}+\cdots+4u+1)(u^{58}-3u^{57}+\cdots-u-17)$
c_4	$(u^{16}-3u^{15}+\cdots-u+1)(u^{58}-4u^{57}+\cdots+6u+4)$
c_5	$(u^{16}-5u^{14}+\cdots-7u^2+1)(u^{58}+u^{57}+\cdots-37u-13)$
c_6	$(u^{16}+4u^{15}+\cdots+9u+1)(u^{58}+3u^{57}+\cdots-16568u+2143)$
c_7	$(u^{16}+3u^{15}+\cdots+u+1)(u^{58}-4u^{57}+\cdots+6u+4)$
c_8	$(u^{16}-12u^{15}+\cdots+3u+1)(u^{58}+u^{57}+\cdots+202u+3)$
c_9	$(u^{16}+4u^{15}+\cdots+2u+1)(u^{58}+3u^{57}+\cdots+7097u+431)$
c_{10}	$(u^{16}-4u^{15}+\cdots-9u+1)(u^{58}+3u^{57}+\cdots-16568u+2143)$
c_{11}	$(u^{16}-2u^{15}+\cdots-4u+1)(u^{58}-3u^{57}+\cdots-u-17)$
c_{12}	$(u^{16}-4u^{15}+\cdots-2u+1)(u^{58}+3u^{57}+\cdots+7097u+431)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{16}+2y^{15}+\cdots-14y+1)(y^{58}-37y^{57}+\cdots-1807601y+28561)$
c_2, c_5	$(y^{16}-10y^{15}+\cdots-14y+1)(y^{58}-41y^{57}+\cdots+191y+169)$
c_3, c_{11}	$(y^{16}+18y^{15}+\cdots+12y+1)(y^{58}+47y^{57}+\cdots-171y+289)$
c_4, c_7	$(y^{16}+13y^{15}+\cdots+11y+1)(y^{58}+18y^{57}+\cdots+356y+16)$
c_6, c_{10}	$(y^{16}+4y^{15}+\cdots-15y+1)$ $\cdot(y^{58}+65y^{57}+\cdots-280143286y+4592449)$
c_8	$(y^{16}-4y^{15}+\cdots-31y+1)(y^{58}-15y^{57}+\cdots-60898y+9)$
c_9, c_{12}	$(y^{16}-10y^{15}+\cdots-14y+1)$ $\cdot(y^{58}-49y^{57}+\cdots-11167097y+185761)$