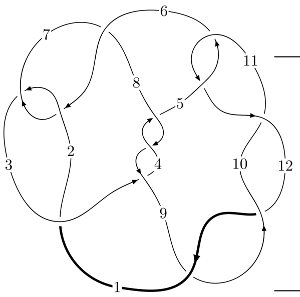
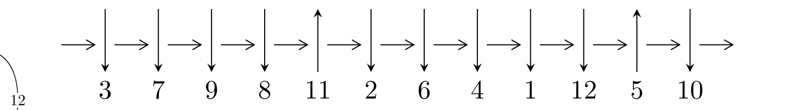
$12a_{0557}$ $(K12a_{0557})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle 1.49508 \times 10^{98} u^{64} + 3.45396 \times 10^{98} u^{63} + \cdots + 1.71880 \times 10^{101} b - 6.24196 \times 10^{100},$$
$$7.40968 \times 10^{98} u^{64} + 4.71743 \times 10^{98} u^{63} + \cdots + 1.56255 \times 10^{100} a + 4.47963 \times 10^{99},\ u^{65} + u^{64} + \cdots - 25u - 2$$

$$I_2^u = \langle -13687a^5u - 12349a^4u + \cdots - 16925a + 1043,$$
$$a^6 + 2a^5u - a^4u - 4a^4 - 7a^3u + 6a^3 + 8a^2u + 6a^2 - 4au - 11a - u + 6,\ u^2 + 1\rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 77 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. $\boldsymbol{I_1^u = \langle 1.50 \times 10^{98} u^{64} + 3.45 \times 10^{98} u^{63} + \cdots + 1.72 \times 10^{101} b - 6.24 \times 10^{100},\ 7.41 \times 10^{98} u^{64} + 4.72 \times 10^{98} u^{63} + \cdots + 1.56 \times 10^{100} a + 4.48 \times 10^{99},\ u^{65} + u^{64} + \cdots - 25u - 25 \rangle}$

(i) Arc colorings

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} -0.0474205u^{64} - 0.0301906u^{63} + \cdots + 7.10316u - 0.286687 \\ -0.000869840u^{64} - 0.00200952u^{63} + \cdots - 0.135624u + 0.363158 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -0.0465507u^{64} - 0.0281811u^{63} + \cdots + 7.23878u - 0.649845 \\ -0.000869840u^{64} - 0.00200952u^{63} + \cdots - 0.135624u + 0.363158 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 0.0150022u^{64} + 0.0129683u^{63} + \cdots + 2.59978u - 2.71871 \\ -0.00372994u^{64} - 0.00195650u^{63} + \cdots + 1.02293u + 0.756420 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -0.0176087u^{64} - 0.0141154u^{63} + \cdots + 6.93497u - 1.17013 \\ -0.00433770u^{64} - 0.0109885u^{63} + \cdots - 0.534815u + 0.289329 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 0.0346066u^{64} + 0.0170099u^{63} + \cdots - 6.02149u + 0.689262 \\ -0.00352626u^{64} - 0.00697665u^{63} + \cdots + 1.54019u + 0.392222 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -0.0317390u^{64} - 0.0250886u^{63} + \cdots + 1.23774u - 0.670406 \\ -0.00724756u^{64} - 0.0123758u^{63} + \cdots + 1.06301u + 0.201180 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -0.0299964u^{64} - 0.0121632u^{63} + \cdots + 3.39288u - 0.548318 \\ 0.00192211u^{64} - 0.00142328u^{63} + \cdots - 1.37640u - 0.164022 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.0739830u^{64} + 0.0434787u^{63} + \cdots + 8.13540u - 8.87805$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{65} + 19u^{64} + \cdots + 5u + 1$
c_2, c_6	$u^{65} - u^{64} + \cdots + 3u + 1$
c_3, c_4, c_8	$u^{65} - u^{64} + \cdots - 25u + 25$
c_5, c_{11}	$u^{65} + u^{64} + \cdots - 5u + 1$
c_9, c_{10}, c_{12}	$u^{65} + 15u^{64} + \cdots + 7u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{65} + 61y^{64} + \cdots - 107y - 1$
c_2, c_6	$y^{65} - 19y^{64} + \cdots + 5y - 1$
c_3, c_4, c_8	$y^{65} + 71y^{64} + \cdots - 7625y - 625$
c_5, c_{11}	$y^{65} + 15y^{64} + \cdots + 7y - 1$
c_9, c_{10}, c_{12}	$y^{65} + 75y^{64} + \cdots - 101y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.194939 + 0.985568I$ $a = 1.136230 - 0.286521I$ $b = 0.757307 - 0.912410I$	$4.66678 - 3.00289I$	$-8.00000 + 0.I$
$u = -0.194939 - 0.985568I$ $a = 1.136230 + 0.286521I$ $b = 0.757307 + 0.912410I$	$4.66678 + 3.00289I$	$-8.00000 + 0.I$
$u = 0.143383 + 0.948907I$ $a = -0.264910 - 0.796535I$ $b = -0.235093 + 0.116598I$	$1.78080 - 2.10362I$	$0. + 4.48623I$
$u = 0.143383 - 0.948907I$ $a = -0.264910 + 0.796535I$ $b = -0.235093 - 0.116598I$	$1.78080 + 2.10362I$	$0. - 4.48623I$
$u = 0.221402 + 0.901501I$ $a = 1.47954 - 0.11084I$ $b = 0.781778 - 0.855158I$	$4.84956 - 2.80174I$	$-1.96434 + 4.08273I$
$u = 0.221402 - 0.901501I$ $a = 1.47954 + 0.11084I$ $b = 0.781778 + 0.855158I$	$4.84956 + 2.80174I$	$-1.96434 - 4.08273I$
$u = -0.444661 + 0.777234I$ $a = 0.408200 - 0.203744I$ $b = -0.506414 + 0.612963I$	$2.38441 - 2.58306I$	$-3.08948 + 3.45648I$
$u = -0.444661 - 0.777234I$ $a = 0.408200 + 0.203744I$ $b = -0.506414 - 0.612963I$	$2.38441 + 2.58306I$	$-3.08948 - 3.45648I$
$u = -0.200493 + 1.105690I$ $a = 0.077851 - 0.634026I$ $b = -0.156729 + 0.869731I$	$-0.456321 + 0.587854I$	0
$u = -0.200493 - 1.105690I$ $a = 0.077851 + 0.634026I$ $b = -0.156729 - 0.869731I$	$-0.456321 - 0.587854I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.540784 + 0.670619I$ $a = -0.252084 - 0.024836I$ $b = 0.558240 + 0.478764I$	$2.54249 - 2.69464I$	$-2.33919 + 3.35970I$
$u = 0.540784 - 0.670619I$ $a = -0.252084 + 0.024836I$ $b = 0.558240 - 0.478764I$	$2.54249 + 2.69464I$	$-2.33919 - 3.35970I$
$u = -0.991125 + 0.561749I$ $a = -1.220950 + 0.689343I$ $b = -0.863665 - 0.958398I$	$9.74563 + 9.54545I$	0
$u = -0.991125 - 0.561749I$ $a = -1.220950 - 0.689343I$ $b = -0.863665 + 0.958398I$	$9.74563 - 9.54545I$	0
$u = 0.973757 + 0.615749I$ $a = -0.383570 - 0.233418I$ $b = -0.896873 - 0.885529I$	$9.97887 - 3.03863I$	0
$u = 0.973757 - 0.615749I$ $a = -0.383570 + 0.233418I$ $b = -0.896873 + 0.885529I$	$9.97887 + 3.03863I$	0
$u = 0.947294 + 0.674719I$ $a = 1.243340 + 0.582206I$ $b = 0.874408 - 0.938153I$	$10.15870 - 3.31862I$	0
$u = 0.947294 - 0.674719I$ $a = 1.243340 - 0.582206I$ $b = 0.874408 + 0.938153I$	$10.15870 + 3.31862I$	0
$u = -0.925321 + 0.731778I$ $a = 0.465765 - 0.237270I$ $b = 0.887478 - 0.908982I$	$10.25190 - 3.19464I$	0
$u = -0.925321 - 0.731778I$ $a = 0.465765 + 0.237270I$ $b = 0.887478 + 0.908982I$	$10.25190 + 3.19464I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.666201 + 0.415426I$ $a = 0.53075 - 1.62998I$ $b = 0.470202 + 0.892585I$	$1.24733 + 6.64277I$	$-7.43550 - 9.53298I$
$u = -0.666201 - 0.415426I$ $a = 0.53075 + 1.62998I$ $b = 0.470202 - 0.892585I$	$1.24733 - 6.64277I$	$-7.43550 + 9.53298I$
$u = -0.037730 + 1.240550I$ $a = -1.51164 - 0.80363I$ $b = -0.426053 - 0.548434I$	$2.00616 - 1.49123I$	0
$u = -0.037730 - 1.240550I$ $a = -1.51164 + 0.80363I$ $b = -0.426053 + 0.548434I$	$2.00616 + 1.49123I$	0
$u = 0.117997 + 1.274100I$ $a = 1.40404 - 0.21152I$ $b = 0.612078 - 0.723737I$	$4.41355 - 2.28333I$	0
$u = 0.117997 - 1.274100I$ $a = 1.40404 + 0.21152I$ $b = 0.612078 + 0.723737I$	$4.41355 + 2.28333I$	0
$u = 0.574683 + 0.420836I$ $a = -0.34710 - 1.45942I$ $b = -0.499917 + 0.810111I$	$1.75044 - 1.32012I$	$-5.66585 + 3.92029I$
$u = 0.574683 - 0.420836I$ $a = -0.34710 + 1.45942I$ $b = -0.499917 - 0.810111I$	$1.75044 + 1.32012I$	$-5.66585 - 3.92029I$
$u = -0.165173 + 1.283860I$ $a = -1.78999 + 0.19957I$ $b = -0.424688 - 0.860379I$	$0.95184 + 4.92361I$	0
$u = -0.165173 - 1.283860I$ $a = -1.78999 - 0.19957I$ $b = -0.424688 + 0.860379I$	$0.95184 - 4.92361I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.572720 + 0.106229I$ $a = 0.96365 - 1.74351I$ $b = 0.262020 + 0.873062I$	$-3.34907 + 2.30473I$	$-16.2162 - 5.9449I$
$u = -0.572720 - 0.106229I$ $a = 0.96365 + 1.74351I$ $b = 0.262020 - 0.873062I$	$-3.34907 - 2.30473I$	$-16.2162 + 5.9449I$
$u = -0.437487 + 0.332448I$ $a = -2.32984 + 0.82322I$ $b = -0.784409 - 0.913662I$	$2.66558 + 5.57488I$	$-9.42845 - 7.52087I$
$u = -0.437487 - 0.332448I$ $a = -2.32984 - 0.82322I$ $b = -0.784409 + 0.913662I$	$2.66558 - 5.57488I$	$-9.42845 + 7.52087I$
$u = -0.04732 + 1.49280I$ $a = 0.003876 - 0.697847I$ $b = -0.024391 + 1.094580I$	$4.94320 + 3.00427I$	0
$u = -0.04732 - 1.49280I$ $a = 0.003876 + 0.697847I$ $b = -0.024391 - 1.094580I$	$4.94320 - 3.00427I$	0
$u = -0.13405 + 1.51695I$ $a = 2.18073 + 0.49322I$ $b = 0.859141 + 0.947236I$	$8.98795 + 7.60409I$	0
$u = -0.13405 - 1.51695I$ $a = 2.18073 - 0.49322I$ $b = 0.859141 - 0.947236I$	$8.98795 - 7.60409I$	0
$u = 0.09167 + 1.52042I$ $a = 1.60247 + 1.13624I$ $b = 0.883757 + 0.890653I$	$9.16830 - 1.15187I$	0
$u = 0.09167 - 1.52042I$ $a = 1.60247 - 1.13624I$ $b = 0.883757 - 0.890653I$	$9.16830 + 1.15187I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.353629 + 0.307016I$ $a = -0.21266 - 1.52151I$ $b = -0.789122 - 0.859153I$	$2.82730 + 0.34334I$	$-9.08497 + 2.02539I$
$u = 0.353629 - 0.307016I$ $a = -0.21266 + 1.52151I$ $b = -0.789122 + 0.859153I$	$2.82730 - 0.34334I$	$-9.08497 - 2.02539I$
$u = 0.13146 + 1.52657I$ $a = 1.221890 + 0.412179I$ $b = 0.516210 - 1.047730I$	$8.27904 - 3.65206I$	0
$u = 0.13146 - 1.52657I$ $a = 1.221890 - 0.412179I$ $b = 0.516210 + 1.047730I$	$8.27904 + 3.65206I$	0
$u = -0.21085 + 1.52413I$ $a = -1.252790 + 0.515874I$ $b = -0.473206 - 1.059010I$	$7.69875 + 9.80033I$	0
$u = -0.21085 - 1.52413I$ $a = -1.252790 - 0.515874I$ $b = -0.473206 + 1.059010I$	$7.69875 - 9.80033I$	0
$u = 0.455205$ $a = -0.0293311$ $b = 0.404527$	-1.07813	-9.13920
$u = 0.14198 + 1.58601I$ $a = -0.829734 - 0.378431I$ $b = -0.825125 - 0.320393I$	$10.16130 - 5.11867I$	0
$u = 0.14198 - 1.58601I$ $a = -0.829734 + 0.378431I$ $b = -0.825125 + 0.320393I$	$10.16130 + 5.11867I$	0
$u = -0.05580 + 1.59350I$ $a = 0.883115 - 0.344042I$ $b = 0.829266 - 0.381772I$	$10.48610 - 1.22570I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.05580-1.59350I$ $a=\ \ 0.883115+0.344042I$ $b=\ \ 0.829266+0.381772I$	$10.48610+1.22570I$	0
$u=\ \ 0.265152+0.297533I$ $a=-1.128460-0.499441I$ $b=-0.222502+0.644711I$	$-0.359965-0.971629I$	$-6.26553+6.85953I$
$u=\ \ 0.265152-0.297533I$ $a=-1.128460+0.499441I$ $b=-0.222502-0.644711I$	$-0.359965+0.971629I$	$-6.26553-6.85953I$
$u=\ \ 0.02254+1.60792I$ $a=-1.73396+0.67808I$ $b=-0.893399+0.929362I$	$13.28270-3.29649I$	0
$u=\ \ 0.02254-1.60792I$ $a=-1.73396-0.67808I$ $b=-0.893399-0.929362I$	$13.28270+3.29649I$	0
$u=-0.35667+1.60371I$ $a=\ \ 1.91240-0.16841I$ $b=\ \ 0.857112+1.009490I$	$16.7892+14.5383I$	0
$u=-0.35667-1.60371I$ $a=\ \ 1.91240+0.16841I$ $b=\ \ 0.857112-1.009490I$	$16.7892-14.5383I$	0
$u=\ \ 0.33299+1.62729I$ $a=\ \ 0.916394+0.913504I$ $b=\ \ 0.942347+0.840020I$	$17.3369-7.9187I$	0
$u=\ \ 0.33299-1.62729I$ $a=\ \ 0.916394-0.913504I$ $b=\ \ 0.942347-0.840020I$	$17.3369+7.9187I$	0
$u=\ \ 0.30253+1.64433I$ $a=-1.84849-0.02882I$ $b=-0.872298+1.000890I$	$17.8412-8.0089I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = \quad 0.30253 - 1.64433I$ $a = -1.84849 + 0.02882I$ $b = -0.872298 - 1.000890I$	$17.8412 + 8.0089I$	0
$u = -0.27148 + 1.66645I$ $a = -1.042730 + 0.849827I$ $b = -0.944098 + 0.861611I$	$18.2931 + 1.3306I$	0
$u = -0.27148 - 1.66645I$ $a = -1.042730 - 0.849827I$ $b = -0.944098 - 0.861611I$	$18.2931 - 1.3306I$	0
$u = -0.176841 + 0.243173I$ $a = \quad 1.23332 + 4.42124I$ $b = \quad 0.044375 - 0.853831I$	$-1.05566 + 2.24342I$	$-14.4833 - 3.3091I$
$u = -0.176841 - 0.243173I$ $a = \quad 1.23332 - 4.42124I$ $b = \quad 0.044375 + 0.853831I$	$-1.05566 - 2.24342I$	$-14.4833 + 3.3091I$

II. $I_2^u = \langle -13687a^5u - 12349a^4u + \cdots - 16925a + 1043,\ 2a^5u - a^4u + \cdots - 11a + 6,\ u^2 + 1 \rangle$

(i) Arc colorings

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -u \\ 0 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} a \\ 0.184498a^5u + 0.166462a^4u + \cdots + 0.228146a - 0.0140594 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -0.184498a^5u - 0.166462a^4u + \cdots + 0.771854a + 0.0140594 \\ 0.184498a^5u + 0.166462a^4u + \cdots + 0.228146a - 0.0140594 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 0.0408978a^5u + 0.129177a^4u + \cdots + 0.154613a + 0.806484 \\ -0.167972a^5u - 0.213143a^4u + \cdots + 0.380805a + 0.496178 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0.0408978a^5u + 0.129177a^4u + \cdots + 0.154613a + 0.806484 \\ -0.182126a^5u - 0.0785469a^4u + \cdots + 0.763025a - 0.786224 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 0.0179551a^5u - 0.0164589a^4u + \cdots + 0.0922693a + 0.329676 \\ -0.0874301a^5u + 0.282847a^4u + \cdots + 1.08674a - 1.08730 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -0.182126a^5u - 0.0785469a^4u + \cdots + 0.763025a - 0.786224 \\ 0.0791130a^5u + 0.465768a^4u + \cdots + 1.22262a - 1.43103 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} 0.0179551a^5u - 0.0164589a^4u + \cdots + 0.0922693a + 0.329676 \\ -0.105385a^5u + 0.299306a^4u + \cdots + 0.994473a - 1.41697 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{11172}{74185}a^5u - \frac{66884}{74185}a^5 - \frac{88436}{74185}a^4u - \frac{87728}{74185}a^4 - \frac{10956}{14837}a^3u + \frac{31104}{14837}a^3 + \frac{61696}{14837}a^2u - \frac{7576}{14837}a^2 + \frac{22716}{14837}au - \frac{73396}{14837}a + \frac{235144}{74185}u - \frac{192528}{74185}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u^2-u+1)^6$
c_2, c_6	$(u^4-u^2+1)^3$
c_3, c_4, c_8	$(u^2+1)^6$
c_5, c_{11}	$(u^6+u^4+2u^2+1)^2$
c_7	$(u^2+u+1)^6$
c_9, c_{10}	$(u^3-u^2+2u-1)^4$
c_{12}	$(u^3+u^2+2u+1)^4$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$(y^2+y+1)^6$
c_2, c_6	$(y^2-y+1)^6$
c_3, c_4, c_8	$(y+1)^{12}$
c_5, c_{11}	$(y^3+y^2+2y+1)^4$
c_9, c_{10}, c_{12}	$(y^3+3y^2+2y-1)^4$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.000000I$ $a = 0.662359 + 0.577399I$ $b = 0.754878I$	$0.53148 - 2.02988I$	$-9.01951 + 3.46410I$
$u = 1.000000I$ $a = 0.489013 - 0.507560I$ $b = 0.744862 - 0.877439I$	$4.66906 - 4.85801I$	$-2.49024 + 6.44355I$
$u = 1.000000I$ $a = -1.15137 - 1.06984I$ $b = -0.744862 - 0.877439I$	$4.66906 + 0.79824I$	$-2.49024 + 0.48465I$
$u = 1.000000I$ $a = 1.46291 + 0.63968I$ $b = 0.744862 - 0.877439I$	$4.66906 - 0.79824I$	$-2.49024 - 0.48465I$
$u = 1.000000I$ $a = 0.66236 - 1.71708I$ $b = 0.754878I$	$0.53148 + 2.02988I$	$-9.01951 - 3.46410I$
$u = 1.000000I$ $a = -2.12527 + 0.07740I$ $b = -0.744862 - 0.877439I$	$4.66906 + 4.85801I$	$-2.49024 - 6.44355I$
$u = -1.000000I$ $a = 0.662359 - 0.577399I$ $b = -0.754878I$	$0.53148 + 2.02988I$	$-9.01951 - 3.46410I$
$u = -1.000000I$ $a = 0.489013 + 0.507560I$ $b = 0.744862 + 0.877439I$	$4.66906 + 4.85801I$	$-2.49024 - 6.44355I$
$u = -1.000000I$ $a = -1.15137 + 1.06984I$ $b = -0.744862 + 0.877439I$	$4.66906 - 0.79824I$	$-2.49024 - 0.48465I$
$u = -1.000000I$ $a = 1.46291 - 0.63968I$ $b = 0.744862 + 0.877439I$	$4.66906 + 0.79824I$	$-2.49024 + 0.48465I$

Solutions to I_2^u		$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u =$	$-1.000000I$		
$a =$	$0.66236 + 1.71708I$	$0.53148 - 2.02988I$	$-9.01951 + 3.46410I$
$b =$	$-0.754878I$		
$u =$	$-1.000000I$		
$a =$	$-2.12527 - 0.07740I$	$4.66906 - 4.85801I$	$-2.49024 + 6.44355I$
$b =$	$-0.744862 + 0.877439I$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u^2-u+1)^6)(u^{65}+19u^{64}+\cdots+5u+1)$
c_2, c_6	$((u^4-u^2+1)^3)(u^{65}-u^{64}+\cdots+3u+1)$
c_3, c_4, c_8	$((u^2+1)^6)(u^{65}-u^{64}+\cdots-25u+25)$
c_5, c_{11}	$((u^6+u^4+2u^2+1)^2)(u^{65}+u^{64}+\cdots-5u+1)$
c_7	$((u^2+u+1)^6)(u^{65}+19u^{64}+\cdots+5u+1)$
c_9, c_{10}	$((u^3-u^2+2u-1)^4)(u^{65}+15u^{64}+\cdots+7u-1)$
c_{12}	$((u^3+u^2+2u+1)^4)(u^{65}+15u^{64}+\cdots+7u-1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_7	$((y^2+y+1)^6)(y^{65}+61y^{64}+\cdots-107y-1)$
c_2, c_6	$((y^2-y+1)^6)(y^{65}-19y^{64}+\cdots+5y-1)$
c_3, c_4, c_8	$((y+1)^{12})(y^{65}+71y^{64}+\cdots-7625y-625)$
c_5, c_{11}	$((y^3+y^2+2y+1)^4)(y^{65}+15y^{64}+\cdots+7y-1)$
c_9, c_{10}, c_{12}	$((y^3+3y^2+2y-1)^4)(y^{65}+75y^{64}+\cdots-101y-1)$