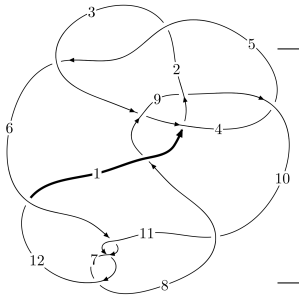
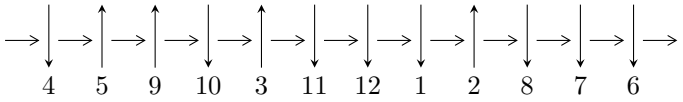
$12a_{0852}$ $(K12a_{0852})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$I_1^u = \langle 2.17522 \times 10^{33} u^{103} - 2.37686 \times 10^{33} u^{102} + \cdots + 1.19004 \times 10^{34} b + 7.34507 \times 10^{33},$

$1.83944 \times 10^{33} u^{103} + 7.61714 \times 10^{33} u^{102} + \cdots + 1.19004 \times 10^{34} a + 1.97168 \times 10^{34},\ u^{104} - 2u^{103} + \cdots + u +$

$I_2^u = \langle b - 1,\ a,\ u - 1 \rangle$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 105 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. $\boldsymbol{I_1^u = \langle 2.18 \times 10^{33} u^{103} - 2.38 \times 10^{33} u^{102} + \cdots + 1.19 \times 10^{34} b + 7.35 \times 10^{33},\ 1.84 \times 10^{33} u^{103} + 7.62 \times 10^{33} u^{102} + \cdots + 1.19 \times 10^{34} a + 1.97 \times 10^{34},\ u^{104} - 2u^{103} + \cdots + u + 1 \rangle}$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

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

$$a_1 = \begin{pmatrix} u^3 - 2u \\ -u^3 + u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -0.154570u^{103} - 0.640077u^{102} + \cdots - 8.49712u - 1.65682 \\ -0.182786u^{103} + 0.199730u^{102} + \cdots + 1.15418u - 0.617214 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.564505u^{103} + 0.239962u^{102} + \cdots + 6.85734u + 1.98992 \\ 0.268856u^{103} - 0.201079u^{102} + \cdots - 1.38328u + 0.531144 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.997344u^{103} - 1.00004u^{102} + \cdots - 3.56627u - 0.283414 \\ 0.827859u^{103} + 0.00269680u^{102} + \cdots - 1.54179u - 0.827859 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^5 - 2u^3 + u \\ u^7 - 3u^5 + 2u^3 + u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.560773u^{103} + 0.239997u^{102} + \cdots + 6.85749u + 1.98999 \\ 1.30153u^{103} - 1.39251u^{102} + \cdots - 5.85230u - 1.30153 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} u^{10} - 5u^8 + 8u^6 - 3u^4 - 3u^2 + 1 \\ -u^{10} + 4u^8 - 5u^6 + 3u^2 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.780657u^{103} + 6.36032u^{102} + \cdots + 24.6150u + 10.1407$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{104} - 17u^{103} + \cdots - 6u + 2$
c_2, c_5	$u^{104} + 2u^{103} + \cdots - 17u - 1$
c_3	$u^{104} + 45u^{102} + \cdots - 223u + 19$
c_4	$u^{104} + 2u^{103} + \cdots + 89u + 29$
c_6, c_7, c_{11}	$u^{104} + 2u^{103} + \cdots - u + 1$
c_8	$u^{104} - 13u^{102} + \cdots + 325815u + 31313$
c_9	$u^{104} + 4u^{103} + \cdots - u - 1$
c_{10}, c_{12}	$u^{104} - 3u^{103} + \cdots + 1056u - 288$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{104} - 9y^{103} + \cdots - 80y + 4$
c_2, c_5	$y^{104} - 66y^{103} + \cdots - 21y + 1$
c_3	$y^{104} + 90y^{103} + \cdots - 10893y + 361$
c_4	$y^{104} + 106y^{103} + \cdots + 9595y + 841$
c_6, c_7, c_{11}	$y^{104} - 86y^{103} + \cdots - 5y + 1$
c_8	$y^{104} - 26y^{103} + \cdots - 64509499981y + 980503969$
c_9	$y^{104} - 18y^{103} + \cdots - 5y + 1$
c_{10}, c_{12}	$y^{104} + 63y^{103} + \cdots - 965952y + 82944$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.819897 + 0.339888I$ $a = -0.618092 - 0.371458I$ $b = 0.847810 + 0.105674I$	$-0.757428 + 0.259701I$	0
$u = 0.819897 - 0.339888I$ $a = -0.618092 + 0.371458I$ $b = 0.847810 - 0.105674I$	$-0.757428 - 0.259701I$	0
$u = -1.086970 + 0.359710I$ $a = -1.360150 - 0.080546I$ $b = 1.34875 - 0.55310I$	$2.38106 - 9.69349I$	0
$u = -1.086970 - 0.359710I$ $a = -1.360150 + 0.080546I$ $b = 1.34875 + 0.55310I$	$2.38106 + 9.69349I$	0
$u = -1.105020 + 0.306891I$ $a = -0.199413 - 0.213073I$ $b = 0.016100 + 1.138540I$	$-1.77784 - 3.79314I$	0
$u = -1.105020 - 0.306891I$ $a = -0.199413 + 0.213073I$ $b = 0.016100 - 1.138540I$	$-1.77784 + 3.79314I$	0
$u = 1.131960 + 0.250386I$ $a = -0.639350 - 0.213959I$ $b = 0.015696 - 0.221086I$	$-1.278260 - 0.518432I$	0
$u = 1.131960 - 0.250386I$ $a = -0.639350 + 0.213959I$ $b = 0.015696 + 0.221086I$	$-1.278260 + 0.518432I$	0
$u = 0.136123 + 0.826445I$ $a = -2.34710 - 0.70307I$ $b = 1.055580 - 0.268217I$	$4.02249 - 5.82467I$	$0. + 9.76873I$
$u = 0.136123 - 0.826445I$ $a = -2.34710 + 0.70307I$ $b = 1.055580 + 0.268217I$	$4.02249 + 5.82467I$	$0. - 9.76873I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.012968+0.834781I$ $a=-2.87263+0.51707I$ $b=1.295250-0.298176I$	$9.32839-4.63448I$	$4.37030+4.68852I$
$u=-0.012968-0.834781I$ $a=-2.87263-0.51707I$ $b=1.295250+0.298176I$	$9.32839+4.63448I$	$4.37030-4.68852I$
$u=1.107320+0.388542I$ $a=-1.317400-0.103258I$ $b=1.032010+0.213362I$	$1.05685+1.43205I$	0
$u=1.107320-0.388542I$ $a=-1.317400+0.103258I$ $b=1.032010-0.213362I$	$1.05685-1.43205I$	0
$u=-0.144534+0.811710I$ $a=-2.89684+0.94833I$ $b=1.35719+0.57614I$	$5.2555+13.9655I$	$0.-8.79296I$
$u=-0.144534-0.811710I$ $a=-2.89684-0.94833I$ $b=1.35719-0.57614I$	$5.2555-13.9655I$	$0.+8.79296I$
$u=-1.153830+0.313248I$ $a=1.274740-0.020552I$ $b=-1.36053+0.68227I$	$2.84442-1.43397I$	0
$u=-1.153830-0.313248I$ $a=1.274740+0.020552I$ $b=-1.36053-0.68227I$	$2.84442+1.43397I$	0
$u=-0.134940+0.785568I$ $a=0.90410+1.19582I$ $b=0.052430-1.189570I$	$1.14989+7.82651I$	$-2.02077-8.17490I$
$u=-0.134940-0.785568I$ $a=0.90410-1.19582I$ $b=0.052430+1.189570I$	$1.14989-7.82651I$	$-2.02077+8.17490I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.171330 + 0.286191I$ $a = 3.60617 - 1.73630I$ $b = -1.056690 - 0.074059I$	$0.890609 - 0.882288I$	0
$u = 1.171330 - 0.286191I$ $a = 3.60617 + 1.73630I$ $b = -1.056690 + 0.074059I$	$0.890609 + 0.882288I$	0
$u = -0.107809 + 0.782110I$ $a = 2.98039 - 0.66950I$ $b = -1.34008 - 0.74189I$	$6.00776 + 5.43570I$	$4.84361 - 7.57014I$
$u = -0.107809 - 0.782110I$ $a = 2.98039 + 0.66950I$ $b = -1.34008 + 0.74189I$	$6.00776 - 5.43570I$	$4.84361 + 7.57014I$
$u = -0.081733 + 0.774053I$ $a = 2.92878 - 1.38458I$ $b = -1.57005 + 0.30871I$	$6.79633 + 1.59864I$	$6.88756 - 1.28327I$
$u = -0.081733 - 0.774053I$ $a = 2.92878 + 1.38458I$ $b = -1.57005 - 0.30871I$	$6.79633 - 1.59864I$	$6.88756 + 1.28327I$
$u = 0.138651 + 0.759319I$ $a = -0.351130 - 0.209085I$ $b = 0.119000 + 0.310193I$	$1.63666 - 3.24838I$	$-2.97188 + 2.12306I$
$u = 0.138651 - 0.759319I$ $a = -0.351130 + 0.209085I$ $b = 0.119000 - 0.310193I$	$1.63666 + 3.24838I$	$-2.97188 - 2.12306I$
$u = 0.105697 + 0.761805I$ $a = 3.83553 + 2.76175I$ $b = -1.051740 + 0.109936I$	$4.09016 - 2.94806I$	$-10.1598 - 11.5645I$
$u = 0.105697 - 0.761805I$ $a = 3.83553 - 2.76175I$ $b = -1.051740 - 0.109936I$	$4.09016 + 2.94806I$	$-10.1598 + 11.5645I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.189960+0.315903I$ $a=\ \ 1.89639-0.44180I$ $b=-1.53464-0.36870I$	$3.42433+2.35782I$	0
$u=-1.189960-0.315903I$ $a=\ \ 1.89639+0.44180I$ $b=-1.53464+0.36870I$	$3.42433-2.35782I$	0
$u=\ \ 1.218850+0.280045I$ $a=-0.58237+1.41538I$ $b=-0.570636+0.091864I$	$-0.11833-1.76625I$	0
$u=\ \ 1.218850-0.280045I$ $a=-0.58237-1.41538I$ $b=-0.570636-0.091864I$	$-0.11833+1.76625I$	0
$u=-0.039221+0.746787I$ $a=\ \ 0.167152-1.170260I$ $b=-0.567779+0.817936I$	$3.96566-1.29839I$	$2.18497+4.02972I$
$u=-0.039221-0.746787I$ $a=\ \ 0.167152+1.170260I$ $b=-0.567779-0.817936I$	$3.96566+1.29839I$	$2.18497-4.02972I$
$u=\ \ 0.238724+0.696600I$ $a=-1.41097-0.43554I$ $b=\ \ 0.893342-0.279263I$	$1.03956-4.10317I$	$-5.12667+9.90639I$
$u=\ \ 0.238724-0.696600I$ $a=-1.41097+0.43554I$ $b=\ \ 0.893342+0.279263I$	$1.03956+4.10317I$	$-5.12667-9.90639I$
$u=\ \ 0.082721+0.731305I$ $a=\ \ 0.256759-1.035700I$ $b=-0.714652-0.132439I$	$3.33458-1.87793I$	$2.57613+6.72386I$
$u=\ \ 0.082721-0.731305I$ $a=\ \ 0.256759+1.035700I$ $b=-0.714652+0.132439I$	$3.33458+1.87793I$	$2.57613-6.72386I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.235630+0.311765I$ $a=\ \ 0.410613-0.014767I$ $b=-0.439261-0.886111I$	$0.28138+5.13012I$	0
$u=-1.235630-0.311765I$ $a=\ \ 0.410613+0.014767I$ $b=-0.439261+0.886111I$	$0.28138-5.13012I$	0
$u=-0.604637+0.377946I$ $a=-1.43689+1.33325I$ $b=\ \ 1.289030+0.537727I$	$1.23076+9.78607I$	$-3.55004-8.76671I$
$u=-0.604637-0.377946I$ $a=-1.43689-1.33325I$ $b=\ \ 1.289030-0.537727I$	$1.23076-9.78607I$	$-3.55004+8.76671I$
$u=-1.247190+0.379009I$ $a=-1.92688+0.79547I$ $b=\ \ 1.311450+0.333163I$	$5.51009+8.99383I$	0
$u=-1.247190-0.379009I$ $a=-1.92688-0.79547I$ $b=\ \ 1.311450-0.333163I$	$5.51009-8.99383I$	0
$u=\ \ 1.269870+0.379706I$ $a=-1.36939-1.14885I$ $b=\ \ 1.275090+0.263970I$	$5.34644+0.27299I$	0
$u=\ \ 1.269870-0.379706I$ $a=-1.36939+1.14885I$ $b=\ \ 1.275090-0.263970I$	$5.34644-0.27299I$	0
$u=\ \ 1.32911$ $a=-0.752093$ $b=-1.50687$	-1.93259	0
$u=-0.294200+0.595315I$ $a=-1.26888+0.93132I$ $b=\ \ 1.237090-0.501458I$	$2.26017-6.27429I$	$-1.37179+2.81174I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.294200-0.595315I$ $a=-1.26888-0.93132I$ $b=\ \ 1.237090+0.501458I$	$2.26017+6.27429I$	$-1.37179-2.81174I$
$u=\ \ 0.497394+0.439590I$ $a=-1.36564-0.72878I$ $b=\ \ 0.802243-0.161085I$	$-0.66419-1.68719I$	$-11.39599+8.12073I$
$u=\ \ 0.497394-0.439590I$ $a=-1.36564+0.72878I$ $b=\ \ 0.802243+0.161085I$	$-0.66419+1.68719I$	$-11.39599-8.12073I$
$u=\ \ 1.301770+0.309962I$ $a=-1.097610+0.496242I$ $b=-0.710921-0.827783I$	$-0.22651-2.50873I$	0
$u=\ \ 1.301770-0.309962I$ $a=-1.097610-0.496242I$ $b=-0.710921+0.827783I$	$-0.22651+2.50873I$	0
$u=-1.320810+0.229375I$ $a=-0.168377-0.148303I$ $b=\ \ 0.496393-0.597888I$	$-4.96158+3.74028I$	0
$u=-1.320810-0.229375I$ $a=-0.168377+0.148303I$ $b=\ \ 0.496393+0.597888I$	$-4.96158-3.74028I$	0
$u=\ \ 1.357340+0.036829I$ $a=-0.64481+1.79711I$ $b=-1.121420+0.753763I$	$-3.40531-3.28760I$	0
$u=\ \ 1.357340-0.036829I$ $a=-0.64481-1.79711I$ $b=-1.121420-0.753763I$	$-3.40531+3.28760I$	0
$u=-0.586602+0.257849I$ $a=\ \ 0.522102-0.255402I$ $b=\ \ 0.106387-1.029130I$	$-2.46224+4.23705I$	$-7.70872-7.47519I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.586602-0.257849I$ $a=\ \ 0.522102+0.255402I$ $b=\ \ 0.106387+1.029130I$	$-2.46224-4.23705I$	$-7.70872+7.47519I$
$u=-1.323900+0.311663I$ $a=-0.497700+0.855032I$ $b=-0.766085+0.188074I$	$-1.09041+5.66082I$	0
$u=-1.323900-0.311663I$ $a=-0.497700-0.855032I$ $b=-0.766085-0.188074I$	$-1.09041-5.66082I$	0
$u=\ \ 1.320340+0.332094I$ $a=\ \ 0.84342+1.93940I$ $b=-1.60232-0.26907I$	$2.39939-5.59260I$	0
$u=\ \ 1.320340-0.332094I$ $a=\ \ 0.84342-1.93940I$ $b=-1.60232+0.26907I$	$2.39939+5.59260I$	0
$u=-1.364830+0.013621I$ $a=-0.14110-2.80359I$ $b=-0.944317-0.153085I$	$-4.84420+0.57804I$	0
$u=-1.364830-0.013621I$ $a=-0.14110+2.80359I$ $b=-0.944317+0.153085I$	$-4.84420-0.57804I$	0
$u=\ \ 1.340460+0.271297I$ $a=-1.19962-1.01951I$ $b=\ \ 0.322997-0.951799I$	$-5.64992-2.03615I$	0
$u=\ \ 1.340460-0.271297I$ $a=-1.19962+1.01951I$ $b=\ \ 0.322997+0.951799I$	$-5.64992+2.03615I$	0
$u=-0.158685+0.610936I$ $a=-1.300790-0.327447I$ $b=\ \ 0.228459+0.869260I$	$-0.96137-1.25908I$	$-4.98451+0.66680I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.158685-0.610936I$ $a=-1.300790+0.327447I$ $b=\ \ 0.228459-0.869260I$	$-0.96137+1.25908I$	$-4.98451-0.66680I$
$u=-1.333430+0.326258I$ $a=\ \ 2.27280-3.29785I$ $b=-1.051820-0.133392I$	$-0.43475+6.88567I$	0
$u=-1.333430-0.326258I$ $a=\ \ 2.27280+3.29785I$ $b=-1.051820+0.133392I$	$-0.43475-6.88567I$	0
$u=\ \ 1.334910+0.336617I$ $a=\ \ 1.73924+2.18490I$ $b=-1.32785+0.78054I$	$1.47378-9.47675I$	0
$u=\ \ 1.334910-0.336617I$ $a=\ \ 1.73924-2.18490I$ $b=-1.32785-0.78054I$	$1.47378+9.47675I$	0
$u=\ \ 0.621098$ $a=-0.599919$ $b=\ \ 0.141868$	-1.24720	-8.65320
$u=\ \ 1.365160+0.233330I$ $a=\ \ 0.375504-0.313013I$ $b=\ \ 1.183030+0.536242I$	$-2.91793+3.29629I$	0
$u=\ \ 1.365160-0.233330I$ $a=\ \ 0.375504+0.313013I$ $b=\ \ 1.183030-0.536242I$	$-2.91793-3.29629I$	0
$u=-1.350210+0.324204I$ $a=\ \ 0.0340088-0.0616224I$ $b=\ \ 0.161165-0.365219I$	$-3.05646+7.17585I$	0
$u=-1.350210-0.324204I$ $a=\ \ 0.0340088+0.0616224I$ $b=\ \ 0.161165+0.365219I$	$-3.05646-7.17585I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.349480 + 0.336718I$ $a = 1.50306 + 0.13604I$ $b = 0.076257 + 1.214800I$	$-3.52490 - 11.88240I$	0
$u = 1.349480 - 0.336718I$ $a = 1.50306 - 0.13604I$ $b = 0.076257 - 1.214800I$	$-3.52490 + 11.88240I$	0
$u = 1.392200 + 0.040896I$ $a = 0.41176 + 1.35567I$ $b = 0.189123 + 1.116580I$	$-8.55437 - 5.02075I$	0
$u = 1.392200 - 0.040896I$ $a = 0.41176 - 1.35567I$ $b = 0.189123 - 1.116580I$	$-8.55437 + 5.02075I$	0
$u = -1.393450 + 0.083248I$ $a = -0.382891 + 0.981947I$ $b = 0.847847 + 0.366478I$	$-6.65127 + 3.23336I$	0
$u = -1.393450 - 0.083248I$ $a = -0.382891 - 0.981947I$ $b = 0.847847 - 0.366478I$	$-6.65127 - 3.23336I$	0
$u = -1.371250 + 0.280465I$ $a = -0.453878 + 1.001390I$ $b = 0.850252 + 0.379510I$	$-4.02838 + 7.63331I$	0
$u = -1.371250 - 0.280465I$ $a = -0.453878 - 1.001390I$ $b = 0.850252 - 0.379510I$	$-4.02838 - 7.63331I$	0
$u = -1.354630 + 0.357246I$ $a = -1.37123 + 1.50720I$ $b = 1.063730 + 0.305774I$	$-0.67161 + 10.08760I$	0
$u = -1.354630 - 0.357246I$ $a = -1.37123 - 1.50720I$ $b = 1.063730 - 0.305774I$	$-0.67161 - 10.08760I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.357480 + 0.349121I$ $a = -1.64850 - 2.17322I$ $b = 1.35890 - 0.59148I$	$0.5224 - 18.1526I$	0
$u = 1.357480 - 0.349121I$ $a = -1.64850 + 2.17322I$ $b = 1.35890 + 0.59148I$	$0.5224 + 18.1526I$	0
$u = -1.408100 + 0.014929I$ $a = 0.117428 - 0.268962I$ $b = 0.493413 - 0.253339I$	$-7.53758 + 0.06657I$	0
$u = -1.408100 - 0.014929I$ $a = 0.117428 + 0.268962I$ $b = 0.493413 + 0.253339I$	$-7.53758 - 0.06657I$	0
$u = 1.409240 + 0.065039I$ $a = 0.12694 - 1.58323I$ $b = 1.28505 - 0.59078I$	$-5.09313 - 11.01120I$	0
$u = 1.409240 - 0.065039I$ $a = 0.12694 + 1.58323I$ $b = 1.28505 + 0.59078I$	$-5.09313 + 11.01120I$	0
$u = -0.435976 + 0.239765I$ $a = 0.86661 - 1.89922I$ $b = -1.191680 - 0.582430I$	$2.08857 + 2.52807I$	$-0.32506 - 8.71630I$
$u = -0.435976 - 0.239765I$ $a = 0.86661 + 1.89922I$ $b = -1.191680 + 0.582430I$	$2.08857 - 2.52807I$	$-0.32506 + 8.71630I$
$u = 0.449559 + 0.091341I$ $a = 0.46059 + 4.92050I$ $b = -0.953699 + 0.055151I$	$0.728992 - 0.299030I$	$7.0296 - 19.8342I$
$u = 0.449559 - 0.091341I$ $a = 0.46059 - 4.92050I$ $b = -0.953699 - 0.055151I$	$0.728992 + 0.299030I$	$7.0296 + 19.8342I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 0.198188 + 0.402789I$		
$a = -0.984161 - 0.454357I$	$-0.424686 - 1.170030I$	$-5.91811 + 4.92395I$
$b = \quad 0.189920 + 0.365207I$		
$u = \quad 0.198188 - 0.402789I$		
$a = -0.984161 + 0.454357I$	$-0.424686 + 1.170030I$	$-5.91811 - 4.92395I$
$b = \quad 0.189920 - 0.365207I$		
$u = -0.229242 + 0.271377I$		
$a = \quad 0.49573 - 1.39916I$	$2.66352 - 0.40407I$	$2.91521 - 3.41969I$
$b = -1.242340 + 0.280456I$		
$u = -0.229242 - 0.271377I$		
$a = \quad 0.49573 + 1.39916I$	$2.66352 + 0.40407I$	$2.91521 + 3.41969I$
$b = -1.242340 - 0.280456I$		

II. $I_2^u = \langle b-1,\ a,\ u-1 \rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 0$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_{10}, c_{12}	u
c_2, c_{11}	$u+1$
c_3, c_4, c_5 c_6, c_7, c_8 c_9	$u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_{10}, c_{12}	y
c_2, c_3, c_4 c_5, c_6, c_7 c_8, c_9, c_{11}	$y-1$

(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	0	0
$b =$ 1.00000		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$u(u^{104} - 17u^{103} + \cdots - 6u + 2)$
c_2	$(u+1)(u^{104} + 2u^{103} + \cdots - 17u - 1)$
c_3	$(u-1)(u^{104} + 45u^{102} + \cdots - 223u + 19)$
c_4	$(u-1)(u^{104} + 2u^{103} + \cdots + 89u + 29)$
c_5	$(u-1)(u^{104} + 2u^{103} + \cdots - 17u - 1)$
c_6, c_7	$(u-1)(u^{104} + 2u^{103} + \cdots - u + 1)$
c_8	$(u-1)(u^{104} - 13u^{102} + \cdots + 325815u + 31313)$
c_9	$(u-1)(u^{104} + 4u^{103} + \cdots - u - 1)$
c_{10}, c_{12}	$u(u^{104} - 3u^{103} + \cdots + 1056u - 288)$
c_{11}	$(u+1)(u^{104} + 2u^{103} + \cdots - u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y(y^{104} - 9y^{103} + \cdots - 80y + 4)$
c_2, c_5	$(y-1)(y^{104} - 66y^{103} + \cdots - 21y + 1)$
c_3	$(y-1)(y^{104} + 90y^{103} + \cdots - 10893y + 361)$
c_4	$(y-1)(y^{104} + 106y^{103} + \cdots + 9595y + 841)$
c_6, c_7, c_{11}	$(y-1)(y^{104} - 86y^{103} + \cdots - 5y + 1)$
c_8	$(y-1)(y^{104} - 26y^{103} + \cdots - 6.45095 \times 10^{10}y + 9.80504 \times 10^{8})$
c_9	$(y-1)(y^{104} - 18y^{103} + \cdots - 5y + 1)$
c_{10}, c_{12}	$y(y^{104} + 63y^{103} + \cdots - 965952y + 82944)$