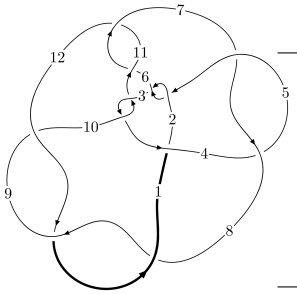
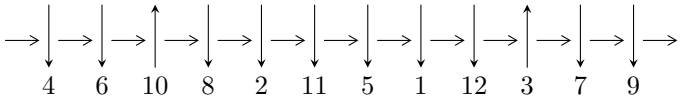
$12a_{0947}$ $(K12a_{0947})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$I_1^u = \langle 7.66580 \times 10^{216} u^{95} + 3.01207 \times 10^{217} u^{94} + \cdots + 1.39904 \times 10^{215} b - 6.84600 \times 10^{217},$
$1.29437 \times 10^{218} u^{95} + 5.06589 \times 10^{218} u^{94} + \cdots + 1.39904 \times 10^{215} a - 1.09950 \times 10^{219},\ u^{96} + 4u^{95} + \cdots - 25u$

$I_2^u = \langle 1711 u^{17} - 5392 u^{16} + \cdots + 2500 b - 6081,\ -3773 u^{17} + 11256 u^{16} + \cdots + 2500 a + 13183,$
$u^{18} - 3u^{17} + \cdots - 8u + 1 \rangle$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 114 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. $\boldsymbol{I_1^u = \langle 7.67 \times 10^{216} u^{95} + 3.01 \times 10^{217} u^{94} + \cdots + 1.40 \times 10^{215} b - 6.85 \times 10^{217},\ 1.29 \times 10^{218} u^{95} + 5.07 \times 10^{218} u^{94} + \cdots + 1.40 \times 10^{215} a - 1.10 \times 10^{219},\ u^{96} + 4u^{95} + \cdots - 25u - 1 \rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -925.186u^{95} - 3620.99u^{94} + \cdots + 138205.u + 7859.01 \\ -54.7935u^{95} - 215.296u^{94} + \cdots + 8402.17u + 489.337 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -979.980u^{95} - 3836.28u^{94} + \cdots + 146607.u + 8348.35 \\ -54.7935u^{95} - 215.296u^{94} + \cdots + 8402.17u + 489.337 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 3187.09u^{95} + 12055.6u^{94} + \cdots - 285324.u - 13138.4 \\ -336.870u^{95} - 1289.44u^{94} + \cdots + 36955.3u + 1887.42 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1579.76u^{95} + 6036.96u^{94} + \cdots - 169129.u - 8544.27 \\ 307.658u^{95} + 1175.84u^{94} + \cdots - 33247.8u - 1685.90 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -920.556u^{95} - 3608.52u^{94} + \cdots + 140115.u + 8009.42 \\ -51.2527u^{95} - 201.384u^{94} + \cdots + 8012.54u + 469.142 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 3385.53u^{95} + 12905.7u^{94} + \cdots - 348333.u - 17274.1 \\ 200.126u^{95} + 764.543u^{94} + \cdots - 21202.5u - 1065.35 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -3201.35u^{95} - 12106.0u^{94} + \cdots + 285009.u + 13082.2 \\ 348.559u^{95} + 1334.10u^{94} + \cdots - 38296.5u - 1957.71 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -1561.38u^{95} - 5923.49u^{94} + \cdots + 147695.u + 7028.63$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{96} - 12u^{95} + \cdots + 50079u - 22271$
c_2, c_5	$u^{96} + u^{95} + \cdots + 22242u - 604$
c_3, c_{10}	$u^{96} + u^{95} + \cdots - 12111u + 11963$
c_4, c_7	$u^{96} - 8u^{95} + \cdots + 2325u + 599$
c_6, c_{11}	$u^{96} - u^{95} + \cdots + 29368u + 2361$
c_8, c_9, c_{12}	$u^{96} - 4u^{95} + \cdots + 25u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{96} + 22y^{95} + \cdots + 13135555953y + 495997441$
c_2, c_5	$y^{96} - 79y^{95} + \cdots - 781387916y + 364816$
c_3, c_{10}	$y^{96} + 83y^{95} + \cdots - 3976989661y + 143113369$
c_4, c_7	$y^{96} + 74y^{95} + \cdots + 27105699y + 358801$
c_6, c_{11}	$y^{96} - 73y^{95} + \cdots - 1783425250y + 5574321$
c_8, c_9, c_{12}	$y^{96} + 98y^{95} + \cdots - 125y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.668054 + 0.736176I$ $a = -0.429663 + 0.886280I$ $b = -0.273010 - 1.079940I$	$1.87671 - 3.14768I$	0
$u = 0.668054 - 0.736176I$ $a = -0.429663 - 0.886280I$ $b = -0.273010 + 1.079940I$	$1.87671 + 3.14768I$	0
$u = 0.774207 + 0.606189I$ $a = 0.915311 - 0.669410I$ $b = 0.133604 + 1.038010I$	$1.49646 - 2.68540I$	0
$u = 0.774207 - 0.606189I$ $a = 0.915311 + 0.669410I$ $b = 0.133604 - 1.038010I$	$1.49646 + 2.68540I$	0
$u = -0.498397 + 0.839577I$ $a = -0.08073 + 1.53160I$ $b = 0.574093 - 0.358999I$	$-8.84762 - 2.96103I$	0
$u = -0.498397 - 0.839577I$ $a = -0.08073 - 1.53160I$ $b = 0.574093 + 0.358999I$	$-8.84762 + 2.96103I$	0
$u = -0.906591 + 0.538873I$ $a = 0.708668 + 0.801467I$ $b = 0.539203 - 1.263990I$	$-6.8746 + 12.7575I$	0
$u = -0.906591 - 0.538873I$ $a = 0.708668 - 0.801467I$ $b = 0.539203 + 1.263990I$	$-6.8746 - 12.7575I$	0
$u = 0.642962 + 0.634792I$ $a = 0.705564 - 0.816030I$ $b = 0.614653 + 1.195540I$	$-1.62318 - 7.04624I$	0
$u = 0.642962 - 0.634792I$ $a = 0.705564 + 0.816030I$ $b = 0.614653 - 1.195540I$	$-1.62318 + 7.04624I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.823842 + 0.327264I$ $a = -0.400902 - 0.137615I$ $b = 0.345374 - 0.991459I$	$-2.63541 + 2.26716I$	0
$u = 0.823842 - 0.327264I$ $a = -0.400902 + 0.137615I$ $b = 0.345374 + 0.991459I$	$-2.63541 - 2.26716I$	0
$u = 0.667116 + 0.468592I$ $a = -1.53049 + 0.79417I$ $b = -0.411037 - 1.217960I$	$-1.76974 - 6.29232I$	0
$u = 0.667116 - 0.468592I$ $a = -1.53049 - 0.79417I$ $b = -0.411037 + 1.217960I$	$-1.76974 + 6.29232I$	0
$u = -0.979656 + 0.724547I$ $a = -0.444493 - 0.520408I$ $b = 0.354693 + 1.111030I$	$-6.48587 - 6.61272I$	0
$u = -0.979656 - 0.724547I$ $a = -0.444493 + 0.520408I$ $b = 0.354693 - 1.111030I$	$-6.48587 + 6.61272I$	0
$u = 0.273545 + 1.199010I$ $a = -0.019882 + 0.518557I$ $b = -0.154446 - 0.611071I$	$2.09188 - 2.59239I$	0
$u = 0.273545 - 1.199010I$ $a = -0.019882 - 0.518557I$ $b = -0.154446 + 0.611071I$	$2.09188 + 2.59239I$	0
$u = -0.696468 + 0.319796I$ $a = 0.387796 - 0.165500I$ $b = 1.049040 + 0.160137I$	$-10.34670 + 7.16521I$	0
$u = -0.696468 - 0.319796I$ $a = 0.387796 + 0.165500I$ $b = 1.049040 - 0.160137I$	$-10.34670 - 7.16521I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.163950+0.429343I$ $a=-0.338442-0.653919I$ $b=-0.239374+1.220300I$	$-0.75881+5.38751I$	0
$u=-1.163950-0.429343I$ $a=-0.338442+0.653919I$ $b=-0.239374-1.220300I$	$-0.75881-5.38751I$	0
$u=\ \ 0.590524+0.473244I$ $a=-0.555181+0.658882I$ $b=-0.786117-0.003987I$	$-5.43999-2.01203I$	0
$u=\ \ 0.590524-0.473244I$ $a=-0.555181-0.658882I$ $b=-0.786117+0.003987I$	$-5.43999+2.01203I$	0
$u=-0.334446+1.211940I$ $a=\ \ 0.436652-0.624605I$ $b=-0.0686828-0.1203880I$	$-1.64270+1.53619I$	0
$u=-0.334446-1.211940I$ $a=\ \ 0.436652+0.624605I$ $b=-0.0686828+0.1203880I$	$-1.64270-1.53619I$	0
$u=-0.239165+1.236350I$ $a=-0.960999+0.305868I$ $b=\ \ 0.062907+0.929306I$	$-3.21662+4.59968I$	0
$u=-0.239165-1.236350I$ $a=-0.960999-0.305868I$ $b=\ \ 0.062907-0.929306I$	$-3.21662-4.59968I$	0
$u=-0.718935+0.159858I$ $a=-0.424784+0.609798I$ $b=-0.625472+0.146870I$	$-4.80317+2.40591I$	0
$u=-0.718935-0.159858I$ $a=-0.424784-0.609798I$ $b=-0.625472-0.146870I$	$-4.80317-2.40591I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.598357 + 0.380180I$ $a = 0.210313 - 0.387022I$ $b = -0.363056 + 1.191810I$	$-1.82836 + 2.13302I$	0
$u = 0.598357 - 0.380180I$ $a = 0.210313 + 0.387022I$ $b = -0.363056 - 1.191810I$	$-1.82836 - 2.13302I$	0
$u = -0.388642 + 0.581905I$ $a = 1.232050 + 0.617206I$ $b = 0.004208 - 1.122470I$	$3.09946 - 0.88819I$	0
$u = -0.388642 - 0.581905I$ $a = 1.232050 - 0.617206I$ $b = 0.004208 + 1.122470I$	$3.09946 + 0.88819I$	0
$u = -0.200518 + 1.292240I$ $a = 0.808068 + 0.422740I$ $b = 0.629734 - 0.807012I$	$-2.97629 + 1.71649I$	0
$u = -0.200518 - 1.292240I$ $a = 0.808068 - 0.422740I$ $b = 0.629734 + 0.807012I$	$-2.97629 - 1.71649I$	0
$u = -0.651902 + 0.011051I$ $a = 0.48383 - 1.60027I$ $b = 0.358350 - 0.916006I$	$-6.96647 - 1.33186I$	0
$u = -0.651902 - 0.011051I$ $a = 0.48383 + 1.60027I$ $b = 0.358350 + 0.916006I$	$-6.96647 + 1.33186I$	0
$u = -0.067232 + 1.355170I$ $a = 0.658539 - 0.383013I$ $b = 0.681245 + 0.819076I$	$-2.94394 - 3.38274I$	0
$u = -0.067232 - 1.355170I$ $a = 0.658539 + 0.383013I$ $b = 0.681245 - 0.819076I$	$-2.94394 + 3.38274I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.012508+1.365180I$ $a=\ \ 0.467529+1.277170I$ $b=-1.07644-1.16046I$	$2.32136-0.99850I$	0
$u=-0.012508-1.365180I$ $a=\ \ 0.467529-1.277170I$ $b=-1.07644+1.16046I$	$2.32136+0.99850I$	0
$u=-0.044464+1.387330I$ $a=-0.78788+3.18341I$ $b=\ \ 0.046890-1.016990I$	$-2.92861+5.06579I$	0
$u=-0.044464-1.387330I$ $a=-0.78788-3.18341I$ $b=\ \ 0.046890+1.016990I$	$-2.92861-5.06579I$	0
$u=\ \ 0.039477+1.389100I$ $a=\ \ 0.748873-0.921047I$ $b=-1.164940+0.583436I$	$2.88902+0.10276I$	0
$u=\ \ 0.039477-1.389100I$ $a=\ \ 0.748873+0.921047I$ $b=-1.164940-0.583436I$	$2.88902-0.10276I$	0
$u=-0.039094+1.392830I$ $a=\ \ 0.34099-2.56779I$ $b=-0.03424+1.45584I$	$2.74416+2.23104I$	0
$u=-0.039094-1.392830I$ $a=\ \ 0.34099+2.56779I$ $b=-0.03424-1.45584I$	$2.74416-2.23104I$	0
$u=-0.236781+1.381320I$ $a=\ \ 0.199484-0.439820I$ $b=-1.018700+0.328866I$	$0.13082+5.78530I$	0
$u=-0.236781-1.381320I$ $a=\ \ 0.199484+0.439820I$ $b=-1.018700-0.328866I$	$0.13082-5.78530I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.487460+0.337071I$ $a=-1.43333-0.19210I$ $b=-0.361403+1.207450I$	$2.21607+3.89167I$	0
$u=-0.487460-0.337071I$ $a=-1.43333+0.19210I$ $b=-0.361403-1.207450I$	$2.21607-3.89167I$	0
$u=-0.00983+1.42816I$ $a=-2.25692+3.77262I$ $b=2.43742-3.56985I$	$1.51043-0.22749I$	0
$u=-0.00983-1.42816I$ $a=-2.25692-3.77262I$ $b=2.43742+3.56985I$	$1.51043+0.22749I$	0
$u=0.09307+1.43320I$ $a=0.0202345+0.1232400I$ $b=0.710877-0.165736I$	$5.21611-2.54667I$	0
$u=0.09307-1.43320I$ $a=0.0202345-0.1232400I$ $b=0.710877+0.165736I$	$5.21611+2.54667I$	0
$u=-0.23560+1.43527I$ $a=-0.747540+0.345048I$ $b=1.367330-0.026498I$	$-4.69844+10.49820I$	0
$u=-0.23560-1.43527I$ $a=-0.747540-0.345048I$ $b=1.367330+0.026498I$	$-4.69844-10.49820I$	0
$u=-0.15472+1.45796I$ $a=-0.58666-1.95673I$ $b=-0.53503+1.40775I$	$8.10551+6.17069I$	0
$u=-0.15472-1.45796I$ $a=-0.58666+1.95673I$ $b=-0.53503-1.40775I$	$8.10551-6.17069I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.272832 + 0.457961I$ $a = -0.20693 - 3.00470I$ $b = 0.450825 + 0.683358I$	$-3.73987 - 1.13063I$	$-8.00000 + 6.44488I$
$u = 0.272832 - 0.457961I$ $a = -0.20693 + 3.00470I$ $b = 0.450825 - 0.683358I$	$-3.73987 + 1.13063I$	$-8.00000 - 6.44488I$
$u = 0.17231 + 1.46579I$ $a = 0.218752 + 0.471901I$ $b = -0.834008 + 0.034716I$	$0.84957 - 4.70495I$	0
$u = 0.17231 - 1.46579I$ $a = 0.218752 - 0.471901I$ $b = -0.834008 - 0.034716I$	$0.84957 + 4.70495I$	0
$u = 0.24482 + 1.49732I$ $a = -0.94373 + 1.88436I$ $b = -0.499876 - 1.284310I$	$4.61884 - 9.65625I$	0
$u = 0.24482 - 1.49732I$ $a = -0.94373 - 1.88436I$ $b = -0.499876 + 1.284310I$	$4.61884 + 9.65625I$	0
$u = -0.13121 + 1.51782I$ $a = 0.57604 + 1.82619I$ $b = 0.300348 - 1.335480I$	$10.03230 + 1.02772I$	0
$u = -0.13121 - 1.51782I$ $a = 0.57604 - 1.82619I$ $b = 0.300348 + 1.335480I$	$10.03230 - 1.02772I$	0
$u = 0.470058$ $a = 0.0993130$ $b = -0.560975$	-1.11295	-8.05890
$u = 0.349554 + 0.313696I$ $a = 0.936534 + 0.194848I$ $b = 0.175834 - 0.238730I$	$-0.444696 - 1.022470I$	$-6.57018 + 6.95164I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.349554 - 0.313696I$ $a = 0.936534 - 0.194848I$ $b = 0.175834 + 0.238730I$	$-0.444696 + 1.022470I$	$-6.57018 - 6.95164I$
$u = 0.26328 + 1.53802I$ $a = 0.72739 - 1.59076I$ $b = 0.360979 + 1.207530I$	$8.41684 - 6.46441I$	0
$u = 0.26328 - 1.53802I$ $a = 0.72739 + 1.59076I$ $b = 0.360979 - 1.207530I$	$8.41684 + 6.46441I$	0
$u = 0.21457 + 1.54770I$ $a = -0.34526 + 1.94680I$ $b = -0.39627 - 1.42796I$	$9.20138 - 6.35589I$	0
$u = 0.21457 - 1.54770I$ $a = -0.34526 - 1.94680I$ $b = -0.39627 + 1.42796I$	$9.20138 + 6.35589I$	0
$u = 0.20980 + 1.54963I$ $a = 0.18117 - 1.94632I$ $b = 0.72524 + 1.47629I$	$5.55276 - 10.18430I$	0
$u = 0.20980 - 1.54963I$ $a = 0.18117 + 1.94632I$ $b = 0.72524 - 1.47629I$	$5.55276 + 10.18430I$	0
$u = -0.32267 + 1.54800I$ $a = 0.53435 + 1.91809I$ $b = 0.60673 - 1.42875I$	$-0.1238 + 17.2373I$	0
$u = -0.32267 - 1.54800I$ $a = 0.53435 - 1.91809I$ $b = 0.60673 + 1.42875I$	$-0.1238 - 17.2373I$	0
$u = -0.37589 + 1.53929I$ $a = -0.59083 - 1.74605I$ $b = -0.39913 + 1.41885I$	$5.62567 + 10.69680I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.37589-1.53929I$ $a=-0.59083+1.74605I$ $b=-0.39913-1.41885I$	$5.62567-10.69680I$	0
$u=\ \ 0.01947+1.61854I$ $a=-0.33091-1.79541I$ $b=-0.003582+1.053620I$	$3.43321-2.22847I$	0
$u=\ \ 0.01947-1.61854I$ $a=-0.33091+1.79541I$ $b=-0.003582-1.053620I$	$3.43321+2.22847I$	0
$u=\ \ 0.44264+1.61609I$ $a=-0.487156+1.092090I$ $b=-0.056623-1.010290I$	$3.08627-2.66733I$	0
$u=\ \ 0.44264-1.61609I$ $a=-0.487156-1.092090I$ $b=-0.056623+1.010290I$	$3.08627+2.66733I$	0
$u=-0.64303+1.55298I$ $a=\ \ 0.520043+1.301040I$ $b=\ \ 0.076727-1.251140I$	$2.67014+2.02484I$	0
$u=-0.64303-1.55298I$ $a=\ \ 0.520043-1.301040I$ $b=\ \ 0.076727+1.251140I$	$2.67014-2.02484I$	0
$u=\ \ 0.32399+1.67785I$ $a=\ \ 0.24779-1.57927I$ $b=-0.004793+1.161890I$	$3.80848-2.17152I$	0
$u=\ \ 0.32399-1.67785I$ $a=\ \ 0.24779+1.57927I$ $b=-0.004793-1.161890I$	$3.80848+2.17152I$	0
$u=\ \ 0.057804+0.269522I$ $a=\ \ 0.083320+0.844994I$ $b=\ \ 1.46795-1.03819I$	$-3.97882-0.28086I$	$16.2514+8.3840I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.057804 - 0.269522I$ $a = 0.083320 - 0.844994I$ $b = 1.46795 + 1.03819I$	$-3.97882 + 0.28086I$	$16.2514 - 8.3840I$
$u = -0.202663$ $a = -2.46839$ $b = -0.717324$	-1.36266	-4.79040
$u = -0.170774 + 0.028925I$ $a = 11.35460 - 5.61146I$ $b = 0.317634 + 0.778646I$	$-7.57638 - 4.37351I$	$-17.4089 + 10.8016I$
$u = -0.170774 - 0.028925I$ $a = 11.35460 + 5.61146I$ $b = 0.317634 - 0.778646I$	$-7.57638 + 4.37351I$	$-17.4089 - 10.8016I$
$u = -0.165992 + 0.031137I$ $a = -3.11658 - 4.33383I$ $b = -0.446519 + 1.137610I$	$-2.04036 + 1.55418I$	$-12.60686 + 0.54268I$
$u = -0.165992 - 0.031137I$ $a = -3.11658 + 4.33383I$ $b = -0.446519 - 1.137610I$	$-2.04036 - 1.55418I$	$-12.60686 - 0.54268I$

II. $I_2^u = \langle 1711u^{17} - 5392u^{16} + \cdots + 2500b - 6081,\ -3773u^{17} + 11256u^{16} + \cdots + 2500a + 13183,\ u^{18} - 3u^{17} + \cdots - 8u + 1\rangle$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1.50920u^{17} - 4.50240u^{16} + \cdots + 10.2684u - 5.27320 \\ -0.684400u^{17} + 2.15680u^{16} + \cdots - 8.11880u + 2.43240 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.824800u^{17} - 2.34560u^{16} + \cdots + 2.14960u - 2.84080 \\ -0.684400u^{17} + 2.15680u^{16} + \cdots - 8.11880u + 2.43240 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.577600u^{17} + 2.10720u^{16} + \cdots + 4.84480u - 1.63040 \\ -0.506800u^{17} + 1.84960u^{16} + \cdots - 5.76360u + 1.46280 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1.95600u^{17} + 5.03200u^{16} + \cdots - 15.4120u + 7.47600 \\ 0.493200u^{17} - 1.15040u^{16} + \cdots + 2.23640u - 1.53720 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1.57520u^{17} - 4.45440u^{16} + \cdots + 10.6504u - 5.55920 \\ -0.458800u^{17} + 1.79360u^{16} + \cdots - 7.66760u + 2.25480 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.840800u^{17} + 1.69760u^{16} + \cdots - 21.1816u + 9.57680 \\ 0.0388000u^{17} - 0.553600u^{16} + \cdots + 7.32760u - 2.43480 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.106800u^{17} - 0.0496000u^{16} + \cdots + 12.9636u - 4.06280 \\ -0.840400u^{17} + 2.58880u^{16} + \cdots - 5.93080u + 1.10840 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{1519}{625}u^{17} + \frac{4418}{625}u^{16} + \cdots - \frac{33663}{625}u + \frac{1249}{625}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{18}+u^{17}+\cdots-12u+1$
c_2	$u^{18}+6u^{17}+\cdots+6u+4$
c_3	$u^{18}+11u^{16}+\cdots+2u-1$
c_4	$u^{18}-u^{17}+\cdots+2u-1$
c_5	$u^{18}-6u^{17}+\cdots-6u+4$
c_6	$u^{18}-2u^{17}+\cdots-u+1$
c_7	$u^{18}+u^{17}+\cdots-2u-1$
c_8, c_9	$u^{18}-3u^{17}+\cdots-8u+1$
c_{10}	$u^{18}+11u^{16}+\cdots-2u-1$
c_{11}	$u^{18}+2u^{17}+\cdots+u+1$
c_{12}	$u^{18}+3u^{17}+\cdots+8u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{18} - 7y^{17} + \cdots - 22y + 1$
c_2, c_5	$y^{18} - 16y^{17} + \cdots - 92y + 16$
c_3, c_{10}	$y^{18} + 22y^{17} + \cdots + 16y + 1$
c_4, c_7	$y^{18} + 21y^{17} + \cdots + 16y + 1$
c_6, c_{11}	$y^{18} - 14y^{17} + \cdots - 9y + 1$
c_8, c_9, c_{12}	$y^{18} + 21y^{17} + \cdots - 28y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.825579 + 0.459114I$ $a = -0.673049 + 0.611182I$ $b = -0.321183 - 1.121890I$	$0.92410 - 4.04672I$	$-9.09721 + 6.95627I$
$u = 0.825579 - 0.459114I$ $a = -0.673049 - 0.611182I$ $b = -0.321183 + 1.121890I$	$0.92410 + 4.04672I$	$-9.09721 - 6.95627I$
$u = -0.271306 + 1.045750I$ $a = -0.123098 - 0.081090I$ $b = -0.302281 + 0.869322I$	$-0.80131 + 2.45440I$	$-6.30262 - 3.65557I$
$u = -0.271306 - 1.045750I$ $a = -0.123098 + 0.081090I$ $b = -0.302281 - 0.869322I$	$-0.80131 - 2.45440I$	$-6.30262 + 3.65557I$
$u = -0.108969 + 1.266110I$ $a = 0.704994 - 1.223770I$ $b = 0.286103 - 0.620375I$	$-4.36306 + 5.33485I$	$-14.2280 - 6.0722I$
$u = -0.108969 - 1.266110I$ $a = 0.704994 + 1.223770I$ $b = 0.286103 + 0.620375I$	$-4.36306 - 5.33485I$	$-14.2280 + 6.0722I$
$u = 0.261265 + 1.271200I$ $a = 0.061309 + 0.755102I$ $b = -0.186633 - 0.368180I$	$1.56342 - 2.47350I$	$-13.08111 + 0.98817I$
$u = 0.261265 - 1.271200I$ $a = 0.061309 - 0.755102I$ $b = -0.186633 + 0.368180I$	$1.56342 + 2.47350I$	$-13.08111 - 0.98817I$
$u = -0.04544 + 1.42820I$ $a = -0.11303 + 2.78740I$ $b = 0.16186 - 2.45137I$	$1.58829 - 0.39851I$	$-0.73427 - 1.49409I$
$u = -0.04544 - 1.42820I$ $a = -0.11303 - 2.78740I$ $b = 0.16186 + 2.45137I$	$1.58829 + 0.39851I$	$-0.73427 + 1.49409I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.300208+0.462207I$ $a=-3.15957-2.29135I$ $b=\ \ 0.231787+0.767672I$	$-7.28159-3.95624I$	$-7.65037-1.68005I$
$u=-0.300208-0.462207I$ $a=-3.15957+2.29135I$ $b=\ \ 0.231787-0.767672I$	$-7.28159+3.95624I$	$-7.65037+1.68005I$
$u=\ \ 0.24398+1.49796I$ $a=-0.56061+1.81795I$ $b=-0.51883-1.32707I$	$7.24916-7.68005I$	$-6.70985+5.96610I$
$u=\ \ 0.24398-1.49796I$ $a=-0.56061-1.81795I$ $b=-0.51883+1.32707I$	$7.24916+7.68005I$	$-6.70985-5.96610I$
$u=\ \ 0.409550$ $a=-0.503485$ $b=-0.925959$	-1.89973	-23.0090
$u=\ \ 0.59845+1.71036I$ $a=\ \ 0.400205-1.291660I$ $b=\ \ 0.050637+1.152290I$	$4.12262-2.88178I$	$2.49993+8.28230I$
$u=\ \ 0.59845-1.71036I$ $a=\ \ 0.400205+1.291660I$ $b=\ \ 0.050637-1.152290I$	$4.12262+2.88178I$	$2.49993-8.28230I$
$u=\ \ 0.183745$ $a=-3.57082$ $b=\ \ 1.12304$	-4.10353	-7.38370

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{18}+u^{17}+\cdots-12u+1)(u^{96}-12u^{95}+\cdots+50079u-22271)$
c_2	$(u^{18}+6u^{17}+\cdots+6u+4)(u^{96}+u^{95}+\cdots+22242u-604)$
c_3	$(u^{18}+11u^{16}+\cdots+2u-1)(u^{96}+u^{95}+\cdots-12111u+11963)$
c_4	$(u^{18}-u^{17}+\cdots+2u-1)(u^{96}-8u^{95}+\cdots+2325u+599)$
c_5	$(u^{18}-6u^{17}+\cdots-6u+4)(u^{96}+u^{95}+\cdots+22242u-604)$
c_6	$(u^{18}-2u^{17}+\cdots-u+1)(u^{96}-u^{95}+\cdots+29368u+2361)$
c_7	$(u^{18}+u^{17}+\cdots-2u-1)(u^{96}-8u^{95}+\cdots+2325u+599)$
c_8, c_9	$(u^{18}-3u^{17}+\cdots-8u+1)(u^{96}-4u^{95}+\cdots+25u-1)$
c_{10}	$(u^{18}+11u^{16}+\cdots-2u-1)(u^{96}+u^{95}+\cdots-12111u+11963)$
c_{11}	$(u^{18}+2u^{17}+\cdots+u+1)(u^{96}-u^{95}+\cdots+29368u+2361)$
c_{12}	$(u^{18}+3u^{17}+\cdots+8u+1)(u^{96}-4u^{95}+\cdots+25u-1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{18} - 7y^{17} + \cdots - 22y + 1)$ $\cdot (y^{96} + 22y^{95} + \cdots + 13135555953y + 495997441)$
c_2, c_5	$(y^{18} - 16y^{17} + \cdots - 92y + 16)$ $\cdot (y^{96} - 79y^{95} + \cdots - 781387916y + 364816)$
c_3, c_{10}	$(y^{18} + 22y^{17} + \cdots + 16y + 1)$ $\cdot (y^{96} + 83y^{95} + \cdots - 3976989661y + 143113369)$
c_4, c_7	$(y^{18} + 21y^{17} + \cdots + 16y + 1)$ $\cdot (y^{96} + 74y^{95} + \cdots + 27105699y + 358801)$
c_6, c_{11}	$(y^{18} - 14y^{17} + \cdots - 9y + 1)$ $\cdot (y^{96} - 73y^{95} + \cdots - 1783425250y + 5574321)$
c_8, c_9, c_{12}	$(y^{18} + 21y^{17} + \cdots - 28y + 1)(y^{96} + 98y^{95} + \cdots - 125y + 1)$