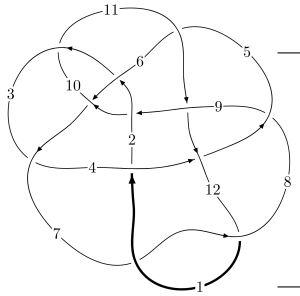
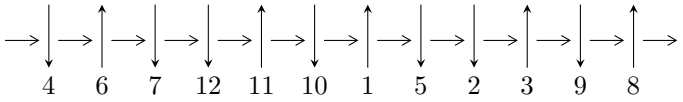
$12a_{0888}$ $(K12a_{0888})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & 6.54150 \times 10^{2113} u^{198} + 2.25876 \times 10^{2114} u^{197} + \cdots + 8.55458 \times 10^{2111} b - 4.60399 \times 10^{2114}, \\ & 6.83826 \times 10^{2112} u^{198} + 2.36400 \times 10^{2113} u^{197} + \cdots + 2.94986 \times 10^{2110} a - 4.90075 \times 10^{2113}, \\ & u^{199} + 4u^{198} + \cdots + 109u - 4 \rangle \\ I_2^u = \langle & 6.56727 \times 10^{107} u^{47} + 2.94736 \times 10^{108} u^{46} + \cdots + 2.61573 \times 10^{107} b + 7.33724 \times 10^{107}, \\ & 2.23775 \times 10^{108} u^{47} + 1.01685 \times 10^{109} u^{46} + \cdots + 2.61573 \times 10^{107} a + 5.16537 \times 10^{108}, \ u^{48} + 5u^{47} + \cdots + u + \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 247 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. $\boldsymbol{I_1^u = \langle 6.54 \times 10^{2113} u^{198} + 2.26 \times 10^{2114} u^{197} + \cdots + 8.55 \times 10^{2111} b - 4.60 \times 10^{2114},\ 6.84 \times 10^{2112} u^{198} + 2.36 \times 10^{2113} u^{197} + \cdots + 2.95 \times 10^{2110} a - 4.90 \times 10^{2113},\ u^{199} + 4u^{198} + \cdots + 109u - 4 \rangle}$

(i) Arc colorings

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

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -231.817u^{198} - 801.394u^{197} + \cdots - 47715.6u + 1661.35 \\ -76.4678u^{198} - 264.041u^{197} + \cdots - 15878.4u + 538.189 \end{pmatrix}$$

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

$$a_4 = \begin{pmatrix} -225.100u^{198} - 778.020u^{197} + \cdots - 46484.7u + 1626.65 \\ -74.6359u^{198} - 257.674u^{197} + \cdots - 15470.8u + 524.219 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -612.133u^{198} - 2116.82u^{197} + \cdots - 126908.u + 4380.38 \\ -85.3048u^{198} - 294.370u^{197} + \cdots - 18209.2u + 621.492 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -155.349u^{198} - 537.353u^{197} + \cdots - 31837.3u + 1123.16 \\ -76.4678u^{198} - 264.041u^{197} + \cdots - 15878.4u + 538.189 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 64.7717u^{198} + 223.713u^{197} + \cdots + 13415.8u - 433.398 \\ 4.60523u^{198} + 15.3365u^{197} + \cdots + 1372.27u - 56.9440 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -333.963u^{198} - 1151.55u^{197} + \cdots - 69826.8u + 2360.83 \\ -86.1451u^{198} - 297.865u^{197} + \cdots - 17706.9u + 600.597 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -445.466u^{198} - 1541.56u^{197} + \cdots - 91239.5u + 3163.38 \\ -81.3622u^{198} - 280.883u^{197} + \cdots - 17457.2u + 595.505 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -84.3533u^{198} - 294.144u^{197} + \cdots - 13012.0u + 365.244 \\ -14.2315u^{198} - 48.5800u^{197} + \cdots - 3365.36u + 118.263 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 21.3818u^{198} + 77.2319u^{197} + \cdots - 506.183u + 131.472 \\ 9.19622u^{198} + 31.2502u^{197} + \cdots + 2376.87u - 87.7508 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 396.332u^{198} + 1372.96u^{197} + \cdots + 84384.4u - 2895.29$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{199} + 12u^{198} + \cdots - 55449899u + 2028184$
c_2	$u^{199} - 2u^{198} + \cdots + 47u + 1$
c_3	$u^{199} + u^{198} + \cdots + 1717896531745u + 8566907748177$
c_4	$u^{199} - u^{198} + \cdots - 51u + 31$
c_5	$u^{199} - 9u^{198} + \cdots + 50548405469343u + 2906312135033$
c_6	$u^{199} - 4u^{198} + \cdots + 109u + 4$
c_7, c_{12}	$u^{199} - u^{198} + \cdots + 106056u + 2767$
c_8	$u^{199} - 2u^{198} + \cdots + 45150805u + 2117682$
c_9	$u^{199} - u^{198} + \cdots - 1706345869u + 1142423049$
c_{10}	$u^{199} + 4u^{198} + \cdots + 656177u + 80681$
c_{11}	$u^{199} + 6u^{198} + \cdots - 37u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{199} - 40y^{198} + \cdots + 781027898879017y - 4113530337856$
c_2	$y^{199} + 26y^{198} + \cdots + 177y - 1$
c_3	$y^{199} - 111y^{198} + \cdots + 4.99 \times 10^{27}y - 7.34 \times 10^{25}$
c_4	$y^{199} - 13y^{198} + \cdots - 53013y - 961$
c_5	$y^{199} + 65y^{198} + \cdots - 5.44 \times 10^{26}y - 8.45 \times 10^{24}$
c_6	$y^{199} - 60y^{198} + \cdots + 6265y - 16$
c_7, c_{12}	$y^{199} + 159y^{198} + \cdots + 230721528y - 7656289$
c_8	$y^{199} - 58y^{198} + \cdots + 4291591582916281y - 4484577053124$
c_9	$y^{199} - 31y^{198} + \cdots + 8.52 \times 10^{19}y - 1.31 \times 10^{18}$
c_{10}	$y^{199} + 62y^{198} + \cdots - 432375389059y - 6509423761$
c_{11}	$y^{199} + 16y^{198} + \cdots - 385y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.323788 + 0.956988I$ $a = 0.667654 - 0.376841I$ $b = -0.177054 + 0.120704I$	$-0.49150 - 2.40703I$	0
$u = 0.323788 - 0.956988I$ $a = 0.667654 + 0.376841I$ $b = -0.177054 - 0.120704I$	$-0.49150 + 2.40703I$	0
$u = -0.785832 + 0.588249I$ $a = 0.07111 + 1.43473I$ $b = 1.01085 + 1.15919I$	$1.18695 + 4.28621I$	0
$u = -0.785832 - 0.588249I$ $a = 0.07111 - 1.43473I$ $b = 1.01085 - 1.15919I$	$1.18695 - 4.28621I$	0
$u = 0.949272 + 0.249807I$ $a = -0.71358 + 1.49382I$ $b = -0.406826 + 0.635104I$	$-2.03727 - 4.52529I$	0
$u = 0.949272 - 0.249807I$ $a = -0.71358 - 1.49382I$ $b = -0.406826 - 0.635104I$	$-2.03727 + 4.52529I$	0
$u = 0.480635 + 0.899006I$ $a = -0.023350 - 0.292064I$ $b = 1.057380 - 0.629958I$	$2.92284 - 3.39243I$	0
$u = 0.480635 - 0.899006I$ $a = -0.023350 + 0.292064I$ $b = 1.057380 + 0.629958I$	$2.92284 + 3.39243I$	0
$u = -0.360311 + 0.911287I$ $a = -0.216921 + 0.045739I$ $b = -0.465046 - 0.870341I$	$-4.03164 - 3.58737I$	0
$u = -0.360311 - 0.911287I$ $a = -0.216921 - 0.045739I$ $b = -0.465046 + 0.870341I$	$-4.03164 + 3.58737I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.725286 + 0.656503I$ $a = -0.44083 - 1.86867I$ $b = 0.863602 - 1.016940I$	$-5.13638 - 5.86234I$	0
$u = 0.725286 - 0.656503I$ $a = -0.44083 + 1.86867I$ $b = 0.863602 + 1.016940I$	$-5.13638 + 5.86234I$	0
$u = 0.962257 + 0.127497I$ $a = 0.404010 + 0.764562I$ $b = 0.94825 + 1.46284I$	$-6.63083 + 1.67851I$	0
$u = 0.962257 - 0.127497I$ $a = 0.404010 - 0.764562I$ $b = 0.94825 - 1.46284I$	$-6.63083 - 1.67851I$	0
$u = 0.654821 + 0.797900I$ $a = 0.213505 - 0.935232I$ $b = 0.715807 - 1.121800I$	$-1.31141 - 2.75691I$	0
$u = 0.654821 - 0.797900I$ $a = 0.213505 + 0.935232I$ $b = 0.715807 + 1.121800I$	$-1.31141 + 2.75691I$	0
$u = -1.042340 + 0.005407I$ $a = 0.189611 - 0.720294I$ $b = 1.27692 - 1.08388I$	$-8.66487 - 8.33594I$	0
$u = -1.042340 - 0.005407I$ $a = 0.189611 + 0.720294I$ $b = 1.27692 + 1.08388I$	$-8.66487 + 8.33594I$	0
$u = 0.426424 + 0.957357I$ $a = -0.147677 + 0.788946I$ $b = -1.034250 + 0.448121I$	$0.84671 + 5.88252I$	0
$u = 0.426424 - 0.957357I$ $a = -0.147677 - 0.788946I$ $b = -1.034250 - 0.448121I$	$0.84671 - 5.88252I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.096913 + 0.941468I$ $a = -1.96577 - 0.53172I$ $b = 1.000940 - 0.078089I$	$1.05606 - 4.87213I$	0
$u = 0.096913 - 0.941468I$ $a = -1.96577 + 0.53172I$ $b = 1.000940 + 0.078089I$	$1.05606 + 4.87213I$	0
$u = 0.564907 + 0.892151I$ $a = -0.499408 - 0.802657I$ $b = 1.071480 - 0.597387I$	$2.89216 - 4.55755I$	0
$u = 0.564907 - 0.892151I$ $a = -0.499408 + 0.802657I$ $b = 1.071480 + 0.597387I$	$2.89216 + 4.55755I$	0
$u = 0.893944 + 0.279837I$ $a = -0.123758 - 0.647024I$ $b = -0.969406 - 0.998165I$	$-2.27890 - 0.79570I$	0
$u = 0.893944 - 0.279837I$ $a = -0.123758 + 0.647024I$ $b = -0.969406 + 0.998165I$	$-2.27890 + 0.79570I$	0
$u = 0.672584 + 0.828175I$ $a = -0.106988 - 0.910380I$ $b = 1.04196 - 1.23080I$	$-0.36012 - 6.38149I$	0
$u = 0.672584 - 0.828175I$ $a = -0.106988 + 0.910380I$ $b = 1.04196 + 1.23080I$	$-0.36012 + 6.38149I$	0
$u = 0.302464 + 1.060080I$ $a = 1.42525 + 0.65612I$ $b = -0.972513 + 0.316322I$	$0.92092 - 3.48037I$	0
$u = 0.302464 - 1.060080I$ $a = 1.42525 - 0.65612I$ $b = -0.972513 - 0.316322I$	$0.92092 + 3.48037I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.896824$ $a = 0.409689$ $b = -0.568323$	-1.71335	0
$u = 0.521557 + 0.724607I$ $a = 0.021341 + 1.127670I$ $b = -1.06995 + 1.51914I$	$0.84025 - 7.67933I$	0
$u = 0.521557 - 0.724607I$ $a = 0.021341 - 1.127670I$ $b = -1.06995 - 1.51914I$	$0.84025 + 7.67933I$	0
$u = 0.564778 + 0.959312I$ $a = 0.522560 + 1.046920I$ $b = -0.700517 + 0.475594I$	$0.57466 - 4.52245I$	0
$u = 0.564778 - 0.959312I$ $a = 0.522560 - 1.046920I$ $b = -0.700517 - 0.475594I$	$0.57466 + 4.52245I$	0
$u = 0.873155 + 0.131603I$ $a = 0.157307 + 1.232550I$ $b = -1.00907 + 1.30822I$	$-8.73974 + 2.24560I$	0
$u = 0.873155 - 0.131603I$ $a = 0.157307 - 1.232550I$ $b = -1.00907 - 1.30822I$	$-8.73974 - 2.24560I$	0
$u = 0.742286 + 0.465956I$ $a = 1.266160 - 0.340133I$ $b = -0.015500 + 0.458490I$	$-2.38628 + 0.27161I$	0
$u = 0.742286 - 0.465956I$ $a = 1.266160 + 0.340133I$ $b = -0.015500 - 0.458490I$	$-2.38628 - 0.27161I$	0
$u = -0.531378 + 0.994319I$ $a = 0.062490 - 0.761390I$ $b = -0.902681 - 0.439001I$	$4.79372 - 0.96584I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.531378-0.994319I$ $a=\ \ 0.062490+0.761390I$ $b=-0.902681+0.439001I$	$4.79372+0.96584I$	0
$u=\ \ 0.996952+0.527145I$ $a=-0.043900-0.574589I$ $b=-0.359306-0.841527I$	$-1.95993-0.90366I$	0
$u=\ \ 0.996952-0.527145I$ $a=-0.043900+0.574589I$ $b=-0.359306+0.841527I$	$-1.95993+0.90366I$	0
$u=\ \ 0.936475+0.667721I$ $a=\ \ 0.558206-1.078580I$ $b=\ \ 1.17804-0.96787I$	$-1.95927-2.42706I$	0
$u=\ \ 0.936475-0.667721I$ $a=\ \ 0.558206+1.078580I$ $b=\ \ 1.17804+0.96787I$	$-1.95927+2.42706I$	0
$u=-0.836320+0.101458I$ $a=\ \ 0.213015+0.775985I$ $b=-1.12254+1.22527I$	$-4.39442+4.72099I$	0
$u=-0.836320-0.101458I$ $a=\ \ 0.213015-0.775985I$ $b=-1.12254-1.22527I$	$-4.39442-4.72099I$	0
$u=-1.047300+0.525620I$ $a=-0.82278+1.26278I$ $b=\ \ 0.066296+0.719138I$	$-5.35189+6.00591I$	0
$u=-1.047300-0.525620I$ $a=-0.82278-1.26278I$ $b=\ \ 0.066296-0.719138I$	$-5.35189-6.00591I$	0
$u=-0.543103+0.624813I$ $a=-0.52508-1.95543I$ $b=-0.1166340+0.0277607I$	$-3.70079+7.18957I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.543103-0.624813I$ $a=-0.52508+1.95543I$ $b=-0.1166340-0.0277607I$	$-3.70079-7.18957I$	0
$u=-0.705255+0.945028I$ $a=-0.039165-1.091780I$ $b=-0.97732-1.34000I$	$-2.19820+13.26320I$	0
$u=-0.705255-0.945028I$ $a=-0.039165+1.091780I$ $b=-0.97732+1.34000I$	$-2.19820-13.26320I$	0
$u=-0.295208+0.761712I$ $a=-1.93365+2.03738I$ $b=\ \ 0.745361+0.277657I$	$-5.06520+11.47870I$	0
$u=-0.295208-0.761712I$ $a=-1.93365-2.03738I$ $b=\ \ 0.745361-0.277657I$	$-5.06520-11.47870I$	0
$u=-0.804089+0.022949I$ $a=\ \ 2.02149-1.64136I$ $b=\ \ 0.138471-0.487076I$	$-7.90188+3.34180I$	0
$u=-0.804089-0.022949I$ $a=\ \ 2.02149+1.64136I$ $b=\ \ 0.138471+0.487076I$	$-7.90188-3.34180I$	0
$u=\ \ 0.732619+0.318472I$ $a=\ \ 0.168766+0.997870I$ $b=\ \ 1.38489+1.32211I$	$-7.5427-12.9521I$	0
$u=\ \ 0.732619-0.318472I$ $a=\ \ 0.168766-0.997870I$ $b=\ \ 1.38489-1.32211I$	$-7.5427+12.9521I$	0
$u=-0.430972+0.667243I$ $a=-0.133660+1.314420I$ $b=\ \ 0.997120+0.560998I$	$2.10001+1.15903I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.430972-0.667243I$ $a=-0.133660-1.314420I$ $b=\ \ 0.997120-0.560998I$	$2.10001-1.15903I$	0
$u=-0.739974+0.287271I$ $a=-0.619320+0.821462I$ $b=-1.36789+0.85900I$	$-7.61176-1.63049I$	0
$u=-0.739974-0.287271I$ $a=-0.619320-0.821462I$ $b=-1.36789-0.85900I$	$-7.61176+1.63049I$	0
$u=\ \ 0.773404+0.951895I$ $a=\ \ 0.047601+1.113910I$ $b=-0.486933+1.274640I$	$-1.63049-3.39349I$	0
$u=\ \ 0.773404-0.951895I$ $a=\ \ 0.047601-1.113910I$ $b=-0.486933-1.274640I$	$-1.63049+3.39349I$	0
$u=\ \ 0.767827+0.072447I$ $a=-1.34612+2.54382I$ $b=-0.057344+0.715845I$	$-8.47392+2.03447I$	0
$u=\ \ 0.767827-0.072447I$ $a=-1.34612-2.54382I$ $b=-0.057344-0.715845I$	$-8.47392-2.03447I$	0
$u=\ \ 0.188068+0.743433I$ $a=\ \ 0.88646+1.52424I$ $b=-0.1264280-0.0496629I$	$1.75098-2.18630I$	0
$u=\ \ 0.188068-0.743433I$ $a=\ \ 0.88646-1.52424I$ $b=-0.1264280+0.0496629I$	$1.75098+2.18630I$	0
$u=-0.541870+0.540544I$ $a=-0.472306+1.135650I$ $b=\ \ 1.10817+1.07357I$	$0.75904+3.74035I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.541870-0.540544I$ $a=-0.472306-1.135650I$ $b=\ \ 1.10817-1.07357I$	$0.75904-3.74035I$	0
$u=\ \ 0.365965+1.184860I$ $a=\ \ 0.260225-0.322644I$ $b=-0.362133+0.463609I$	$-2.11886-2.54299I$	0
$u=\ \ 0.365965-1.184860I$ $a=\ \ 0.260225+0.322644I$ $b=-0.362133-0.463609I$	$-2.11886+2.54299I$	0
$u=\ \ 0.736545+0.028243I$ $a=-0.24759-2.32222I$ $b=\ \ 0.598845-1.104700I$	$-6.10770-5.68822I$	0
$u=\ \ 0.736545-0.028243I$ $a=-0.24759+2.32222I$ $b=\ \ 0.598845+1.104700I$	$-6.10770+5.68822I$	0
$u=-0.589953+0.434982I$ $a=-0.38360-2.83389I$ $b=-0.393914-0.637502I$	$-7.12718+4.38008I$	0
$u=-0.589953-0.434982I$ $a=-0.38360+2.83389I$ $b=-0.393914+0.637502I$	$-7.12718-4.38008I$	0
$u=-0.700193+0.182108I$ $a=\ \ 0.190511-0.899671I$ $b=\ \ 1.40072-1.48868I$	$-2.21526+6.66114I$	0
$u=-0.700193-0.182108I$ $a=\ \ 0.190511+0.899671I$ $b=\ \ 1.40072+1.48868I$	$-2.21526-6.66114I$	0
$u=\ \ 0.646010+0.325697I$ $a=\ \ 0.13207-2.14184I$ $b=-0.06678-1.46483I$	$-5.57836-6.97331I$	0

	Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=$	$0.646010-0.325697I$		
$a=$	$0.13207+2.14184I$	$-5.57836+6.97331I$	0
$b=$	$-0.06678+1.46483I$		
$u=$	$0.333997+0.629074I$		
$a=$	$0.650287-0.901112I$	$-0.78254-2.27569I$	0
$b=$	$0.345649-0.333798I$		
$u=$	$0.333997-0.629074I$		
$a=$	$0.650287+0.901112I$	$-0.78254+2.27569I$	0
$b=$	$0.345649+0.333798I$		
$u=$	$0.703844+0.073631I$		
$a=$	$0.205034-0.765896I$	$-3.17000-3.06613I$	0
$b=$	$1.47972-1.39097I$		
$u=$	$0.703844-0.073631I$		
$a=$	$0.205034+0.765896I$	$-3.17000+3.06613I$	0
$b=$	$1.47972+1.39097I$		
$u=$	$-0.722623+1.074710I$		
$a=$	$0.282178+0.460448I$	$-0.15919+5.93228I$	0
$b=$	$1.044830+0.618158I$		
$u=$	$-0.722623-1.074710I$		
$a=$	$0.282178-0.460448I$	$-0.15919-5.93228I$	0
$b=$	$1.044830-0.618158I$		
$u=$	$-1.092520+0.701501I$		
$a=$	$-0.055816-1.264050I$	$-8.84458+5.31755I$	0
$b=$	$-0.801534-1.107380I$		
$u=$	$-1.092520-0.701501I$		
$a=$	$-0.055816+1.264050I$	$-8.84458-5.31755I$	0
$b=$	$-0.801534+1.107380I$		
$u=$	$0.829036+1.011460I$		
$a=$	$0.415868+0.210937I$	$-5.89659+0.25043I$	0
$b=$	$0.498332+1.032160I$		

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.829036 - 1.011460I$ $a = 0.415868 - 0.210937I$ $b = 0.498332 - 1.032160I$	$-5.89659 - 0.25043I$	0
$u = -0.633458 + 0.267034I$ $a = 0.46070 + 1.63703I$ $b = -0.041535 + 1.152310I$	$-0.54362 + 3.54968I$	0
$u = -0.633458 - 0.267034I$ $a = 0.46070 - 1.63703I$ $b = -0.041535 - 1.152310I$	$-0.54362 - 3.54968I$	0
$u = -0.317546 + 0.598247I$ $a = 0.190964 - 1.105750I$ $b = -0.52822 - 1.74252I$	$-2.20538 - 1.93247I$	0
$u = -0.317546 - 0.598247I$ $a = 0.190964 + 1.105750I$ $b = -0.52822 + 1.74252I$	$-2.20538 + 1.93247I$	0
$u = -1.023070 + 0.838473I$ $a = 0.253000 - 1.276190I$ $b = -0.883469 - 1.037100I$	$-8.83556 + 5.62215I$	0
$u = -1.023070 - 0.838473I$ $a = 0.253000 + 1.276190I$ $b = -0.883469 + 1.037100I$	$-8.83556 - 5.62215I$	0
$u = 0.560862 + 0.357634I$ $a = -0.280847 - 1.246230I$ $b = -1.41761 - 1.08113I$	$-7.45812 - 3.89762I$	0
$u = 0.560862 - 0.357634I$ $a = -0.280847 + 1.246230I$ $b = -1.41761 + 1.08113I$	$-7.45812 + 3.89762I$	0
$u = -1.197770 + 0.604792I$ $a = 0.391251 + 0.723132I$ $b = 0.853903 + 0.615187I$	$0.75793 + 2.05160I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.197770-0.604792I$ $a=\ \ 0.391251-0.723132I$ $b=\ \ 0.853903-0.615187I$	$0.75793-2.05160I$	0
$u=-0.574343+0.229582I$ $a=-2.32657+0.55692I$ $b=\ \ 0.542486+0.509515I$	$-3.34420+5.23806I$	0
$u=-0.574343-0.229582I$ $a=-2.32657-0.55692I$ $b=\ \ 0.542486-0.509515I$	$-3.34420-5.23806I$	0
$u=\ \ 1.375360+0.146101I$ $a=\ \ 0.395774+0.354106I$ $b=-0.057981+0.614935I$	$-2.65060+1.09946I$	0
$u=\ \ 1.375360-0.146101I$ $a=\ \ 0.395774-0.354106I$ $b=-0.057981-0.614935I$	$-2.65060-1.09946I$	0
$u=-0.529520+0.301878I$ $a=\ \ 0.214856-0.714137I$ $b=\ \ 1.97190-0.67577I$	$-6.63453+4.54438I$	0
$u=-0.529520-0.301878I$ $a=\ \ 0.214856+0.714137I$ $b=\ \ 1.97190+0.67577I$	$-6.63453-4.54438I$	0
$u=\ \ 0.823843+1.125710I$ $a=-0.639757-0.415955I$ $b=\ \ 0.123013-0.542942I$	$-1.74111-3.17086I$	0
$u=\ \ 0.823843-1.125710I$ $a=-0.639757+0.415955I$ $b=\ \ 0.123013+0.542942I$	$-1.74111+3.17086I$	0
$u=-0.586393+0.065879I$ $a=\ \ 0.010605+1.251070I$ $b=-1.29602+1.33972I$	$-4.03698+2.14832I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.586393-0.065879I$ $a=\ \ 0.010605-1.251070I$ $b=-1.29602-1.33972I$	$-4.03698-2.14832I$	0
$u=\ \ 1.13010+0.85367I$ $a=\ \ 0.037440+1.154100I$ $b=-0.592247+0.824467I$	$-1.75180-4.93998I$	0
$u=\ \ 1.13010-0.85367I$ $a=\ \ 0.037440-1.154100I$ $b=-0.592247-0.824467I$	$-1.75180+4.93998I$	0
$u=-0.566804+0.056222I$ $a=\ \ 0.754777+0.077174I$ $b=-1.25330-0.67913I$	$-4.43889-4.10177I$	0
$u=-0.566804-0.056222I$ $a=\ \ 0.754777-0.077174I$ $b=-1.25330+0.67913I$	$-4.43889+4.10177I$	0
$u=-0.548026+0.001910I$ $a=-2.32494+2.48370I$ $b=\ \ 0.044142+0.734919I$	$-3.98743+2.05565I$	0
$u=-0.548026-0.001910I$ $a=-2.32494-2.48370I$ $b=\ \ 0.044142-0.734919I$	$-3.98743-2.05565I$	0
$u=\ \ 1.06556+0.99497I$ $a=\ \ 0.257162+0.659827I$ $b=-0.656363+0.621881I$	$-1.56739-3.79423I$	0
$u=\ \ 1.06556-0.99497I$ $a=\ \ 0.257162-0.659827I$ $b=-0.656363-0.621881I$	$-1.56739+3.79423I$	0
$u=\ \ 0.538583+0.059880I$ $a=\ \ 4.05215+2.88808I$ $b=-0.086024+0.541607I$	$-6.82612-11.68990I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.538583 - 0.059880I$ $a = 4.05215 - 2.88808I$ $b = -0.086024 - 0.541607I$	$-6.82612 + 11.68990I$	0
$u = -1.12983 + 0.92810I$ $a = 0.198612 - 1.242180I$ $b = -0.605383 - 0.783628I$	$-3.44318 + 5.66140I$	0
$u = -1.12983 - 0.92810I$ $a = 0.198612 + 1.242180I$ $b = -0.605383 + 0.783628I$	$-3.44318 - 5.66140I$	0
$u = 1.26931 + 0.73158I$ $a = -0.142091 + 1.039720I$ $b = -1.10571 + 1.13602I$	$-8.44189 - 10.86170I$	0
$u = 1.26931 - 0.73158I$ $a = -0.142091 - 1.039720I$ $b = -1.10571 - 1.13602I$	$-8.44189 + 10.86170I$	0
$u = -0.518564 + 0.129065I$ $a = 0.05461 - 1.59937I$ $b = -1.56190 - 1.07928I$	$-6.76697 + 2.43665I$	0
$u = -0.518564 - 0.129065I$ $a = 0.05461 + 1.59937I$ $b = -1.56190 + 1.07928I$	$-6.76697 - 2.43665I$	0
$u = -1.16012 + 0.91372I$ $a = -0.055940 - 1.060570I$ $b = -1.03606 - 1.15945I$	$-4.51565 + 10.82510I$	0
$u = -1.16012 - 0.91372I$ $a = -0.055940 + 1.060570I$ $b = -1.03606 + 1.15945I$	$-4.51565 - 10.82510I$	0
$u = 0.500100 + 0.149590I$ $a = -2.19710 + 2.89769I$ $b = 0.174959 + 0.859949I$	$-7.01049 + 2.31687I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.500100 - 0.149590I$ $a = -2.19710 - 2.89769I$ $b = 0.174959 - 0.859949I$	$-7.01049 - 2.31687I$	0
$u = 1.04560 + 1.04993I$ $a = -0.309761 - 0.955612I$ $b = 1.21210 - 1.19231I$	$-5.84212 - 7.46727I$	0
$u = 1.04560 - 1.04993I$ $a = -0.309761 + 0.955612I$ $b = 1.21210 + 1.19231I$	$-5.84212 + 7.46727I$	0
$u = -0.93577 + 1.15597I$ $a = 0.168712 + 0.945813I$ $b = 0.699593 + 0.915387I$	$-1.13442 + 2.29062I$	0
$u = -0.93577 - 1.15597I$ $a = 0.168712 - 0.945813I$ $b = 0.699593 - 0.915387I$	$-1.13442 - 2.29062I$	0
$u = -0.398027 + 0.306358I$ $a = 3.98513 + 0.85317I$ $b = -0.229273 - 0.470217I$	$-0.84326 + 6.93966I$	0
$u = -0.398027 - 0.306358I$ $a = 3.98513 - 0.85317I$ $b = -0.229273 + 0.470217I$	$-0.84326 - 6.93966I$	0
$u = 1.13774 + 0.99949I$ $a = -0.118410 - 0.904582I$ $b = 0.89452 - 1.26055I$	$-4.68296 - 5.92920I$	0
$u = 1.13774 - 0.99949I$ $a = -0.118410 + 0.904582I$ $b = 0.89452 + 1.26055I$	$-4.68296 + 5.92920I$	0
$u = -1.19725 + 0.95611I$ $a = -0.216813 + 0.909013I$ $b = 0.92845 + 1.15620I$	$-9.67267 - 0.23355I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.19725-0.95611I$ $a=-0.216813-0.909013I$ $b=\ \ 0.92845-1.15620I$	$-9.67267+0.23355I$	0
$u=-1.39560+0.66051I$ $a=\ \ 0.185705+0.452358I$ $b=-0.202674+0.565931I$	$-3.43225+1.96005I$	0
$u=-1.39560-0.66051I$ $a=\ \ 0.185705-0.452358I$ $b=-0.202674-0.565931I$	$-3.43225-1.96005I$	0
$u=-1.13932+1.04360I$ $a=-0.083100+1.024760I$ $b=\ \ 1.07419+1.19261I$	$-2.6474+15.7939I$	0
$u=-1.13932-1.04360I$ $a=-0.083100-1.024760I$ $b=\ \ 1.07419-1.19261I$	$-2.6474-15.7939I$	0
$u=-1.53150+0.22900I$ $a=-0.562485+0.697175I$ $b=-0.292303+0.608305I$	$-4.74207-6.97341I$	0
$u=-1.53150-0.22900I$ $a=-0.562485-0.697175I$ $b=-0.292303-0.608305I$	$-4.74207+6.97341I$	0
$u=\ \ 1.14495+1.06021I$ $a=\ \ 0.164366+0.945061I$ $b=-1.03096+1.06770I$	$-2.25531-8.49508I$	0
$u=\ \ 1.14495-1.06021I$ $a=\ \ 0.164366-0.945061I$ $b=-1.03096-1.06770I$	$-2.25531+8.49508I$	0
$u=\ \ 1.18315+1.01750I$ $a=-0.032214+1.114430I$ $b=-0.98356+1.16040I$	$-8.4248-12.2045I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.18315 - 1.01750I$ $a = -0.032214 - 1.114430I$ $b = -0.98356 - 1.16040I$	$-8.4248 + 12.2045I$	0
$u = 1.19909 + 1.05418I$ $a = -0.036895 - 1.059110I$ $b = 1.06485 - 1.17719I$	$-8.0218 - 21.8174I$	0
$u = 1.19909 - 1.05418I$ $a = -0.036895 + 1.059110I$ $b = 1.06485 + 1.17719I$	$-8.0218 + 21.8174I$	0
$u = -1.17961 + 1.08563I$ $a = -0.092356 + 0.981033I$ $b = 0.79967 + 1.19799I$	$-9.3698 + 12.4453I$	0
$u = -1.17961 - 1.08563I$ $a = -0.092356 - 0.981033I$ $b = 0.79967 - 1.19799I$	$-9.3698 - 12.4453I$	0
$u = -0.373570 + 0.064315I$ $a = 1.68104 + 1.74560I$ $b = 0.665488 + 0.375857I$	$1.17548 + 1.25393I$	0
$u = -0.373570 - 0.064315I$ $a = 1.68104 - 1.74560I$ $b = 0.665488 - 0.375857I$	$1.17548 - 1.25393I$	0
$u = -0.73930 + 1.44446I$ $a = -0.339528 + 0.298857I$ $b = -0.351317 + 0.720109I$	$-7.24462 + 1.36294I$	0
$u = -0.73930 - 1.44446I$ $a = -0.339528 - 0.298857I$ $b = -0.351317 - 0.720109I$	$-7.24462 - 1.36294I$	0
$u = 0.188384 + 0.324873I$ $a = -1.04888 + 2.79155I$ $b = 0.618067 - 0.059583I$	$1.43272 - 1.51882I$	$5.54313 + 8.48562I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.188384 - 0.324873I$ $a = -1.04888 - 2.79155I$ $b = 0.618067 + 0.059583I$	$1.43272 + 1.51882I$	$5.54313 - 8.48562I$
$u = -0.331610 + 0.157329I$ $a = -2.23641 + 1.93706I$ $b = 0.876545 + 0.512842I$	$0.43039 + 3.01839I$	$0. - 4.68806I$
$u = -0.331610 - 0.157329I$ $a = -2.23641 - 1.93706I$ $b = 0.876545 - 0.512842I$	$0.43039 - 3.01839I$	$0. + 4.68806I$
$u = 1.61554 + 0.27473I$ $a = 0.559733 - 0.380923I$ $b = 0.971206 - 0.299453I$	$-2.96222 + 0.08886I$	0
$u = 1.61554 - 0.27473I$ $a = 0.559733 + 0.380923I$ $b = 0.971206 + 0.299453I$	$-2.96222 - 0.08886I$	0
$u = -1.27707 + 1.05093I$ $a = 0.007884 - 0.895008I$ $b = -1.03793 - 1.09619I$	$-4.52240 + 12.89090I$	0
$u = -1.27707 - 1.05093I$ $a = 0.007884 + 0.895008I$ $b = -1.03793 + 1.09619I$	$-4.52240 - 12.89090I$	0
$u = -1.31921 + 1.00977I$ $a = -0.147434 - 0.639660I$ $b = -0.830673 - 0.610795I$	$2.01965 + 8.20954I$	0
$u = -1.31921 - 1.00977I$ $a = -0.147434 + 0.639660I$ $b = -0.830673 + 0.610795I$	$2.01965 - 8.20954I$	0
$u = 1.20961 + 1.16835I$ $a = 0.274011 + 0.368219I$ $b = -0.169671 + 0.939571I$	$-4.20337 - 2.40352I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.20961 - 1.16835I$ $a = 0.274011 - 0.368219I$ $b = -0.169671 - 0.939571I$	$-4.20337 + 2.40352I$	0
$u = 1.41619 + 0.92797I$ $a = -0.312933 + 0.677154I$ $b = -0.939297 + 0.623570I$	$-2.52443 - 12.71120I$	0
$u = 1.41619 - 0.92797I$ $a = -0.312933 - 0.677154I$ $b = -0.939297 - 0.623570I$	$-2.52443 + 12.71120I$	0
$u = 1.25220 + 1.14355I$ $a = 0.016359 - 0.835331I$ $b = 0.478208 - 0.824121I$	$-0.51360 - 4.17016I$	0
$u = 1.25220 - 1.14355I$ $a = 0.016359 + 0.835331I$ $b = 0.478208 + 0.824121I$	$-0.51360 + 4.17016I$	0
$u = -1.17873 + 1.29748I$ $a = 0.214421 - 0.406084I$ $b = -0.056110 - 0.988114I$	$-8.69903 + 8.71433I$	0
$u = -1.17873 - 1.29748I$ $a = 0.214421 + 0.406084I$ $b = -0.056110 + 0.988114I$	$-8.69903 - 8.71433I$	0
$u = -1.40344 + 1.10714I$ $a = 0.304151 - 0.475792I$ $b = -0.078916 - 0.805177I$	$-9.35234 - 3.49399I$	0
$u = -1.40344 - 1.10714I$ $a = 0.304151 + 0.475792I$ $b = -0.078916 + 0.805177I$	$-9.35234 + 3.49399I$	0
$u = 1.42137 + 1.09005I$ $a = -0.133436 - 0.323705I$ $b = -0.091125 - 0.804362I$	$-2.17560 - 0.19236I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.42137 - 1.09005I$ $a = -0.133436 + 0.323705I$ $b = -0.091125 + 0.804362I$	$-2.17560 + 0.19236I$	0
$u = -1.26783 + 1.26617I$ $a = 0.338133 - 0.196943I$ $b = 0.271329 - 0.771699I$	$-2.28874 - 7.28712I$	0
$u = -1.26783 - 1.26617I$ $a = 0.338133 + 0.196943I$ $b = 0.271329 + 0.771699I$	$-2.28874 + 7.28712I$	0
$u = 0.089025 + 0.186720I$ $a = 0.38804 + 8.07352I$ $b = -0.630029 + 0.546201I$	$-2.81537 - 7.38828I$	$-0.49583 + 8.88310I$
$u = 0.089025 - 0.186720I$ $a = 0.38804 - 8.07352I$ $b = -0.630029 - 0.546201I$	$-2.81537 + 7.38828I$	$-0.49583 - 8.88310I$
$u = 0.189077 + 0.004040I$ $a = 5.20169 + 4.95565I$ $b = -0.872048 - 0.186724I$	$0.02024 + 2.52473I$	$1.17278 - 1.87917I$
$u = 0.189077 - 0.004040I$ $a = 5.20169 - 4.95565I$ $b = -0.872048 + 0.186724I$	$0.02024 - 2.52473I$	$1.17278 + 1.87917I$
$u = 0.0828242 + 0.0110934I$ $a = 10.99530 - 3.78336I$ $b = -0.044189 + 1.154030I$	$-4.35510 - 0.00211I$	$-8.47971 - 0.31988I$
$u = 0.0828242 - 0.0110934I$ $a = 10.99530 + 3.78336I$ $b = -0.044189 - 1.154030I$	$-4.35510 + 0.00211I$	$-8.47971 + 0.31988I$
$u = 1.26940 + 1.45138I$ $a = -0.395386 - 0.207203I$ $b = -0.284779 - 0.546310I$	$-7.60576 + 3.48701I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.26940 - 1.45138I$ $a = -0.395386 + 0.207203I$ $b = -0.284779 + 0.546310I$	$-7.60576 - 3.48701I$	0
$u = 1.31062 + 1.48683I$ $a = 0.335878 + 0.179732I$ $b = 0.325691 + 0.686171I$	$-7.3210 + 12.8460I$	0
$u = 1.31062 - 1.48683I$ $a = 0.335878 - 0.179732I$ $b = 0.325691 - 0.686171I$	$-7.3210 - 12.8460I$	0
$u = -0.94716 + 1.92859I$ $a = -0.200746 + 0.031181I$ $b = -0.197589 + 0.461371I$	$-2.70283 - 2.72163I$	0
$u = -0.94716 - 1.92859I$ $a = -0.200746 - 0.031181I$ $b = -0.197589 - 0.461371I$	$-2.70283 + 2.72163I$	0
$u = -2.97699 + 0.71796I$ $a = 0.110095 + 0.109860I$ $b = 0.364276 + 0.338586I$	$-3.37854 - 2.44402I$	0
$u = -2.97699 - 0.71796I$ $a = 0.110095 - 0.109860I$ $b = 0.364276 - 0.338586I$	$-3.37854 + 2.44402I$	0
$u = -3.08605 + 1.91338I$ $a = 0.0302096 + 0.0602211I$ $b = -0.238205 + 0.059134I$	$-3.50958 + 2.17774I$	0
$u = -3.08605 - 1.91338I$ $a = 0.0302096 - 0.0602211I$ $b = -0.238205 - 0.059134I$	$-3.50958 - 2.17774I$	0

II. $\boldsymbol{I_2^u = \langle 6.57 \times 10^{107} u^{47} + 2.95 \times 10^{108} u^{46} + \cdots + 2.62 \times 10^{107} b + 7.34 \times 10^{107},\ 2.24 \times 10^{108} u^{47} + 1.02 \times 10^{109} u^{46} + \cdots + 2.62 \times 10^{107} a + 5.17 \times 10^{108},\ u^{48} + 5u^{47} + \cdots + u + 1 \rangle}$

(i) Arc colorings

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

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -8.55496u^{47} - 38.8742u^{46} + \cdots + 18.9021u - 19.7473 \\ -2.51068u^{47} - 11.2678u^{46} + \cdots - 1.71292u - 2.80504 \end{pmatrix}$$

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

$$a_4 = \begin{pmatrix} -8.01225u^{47} - 36.6074u^{46} + \cdots + 25.2694u - 20.8429 \\ -2.05965u^{47} - 9.25889u^{46} + \cdots - 1.80891u - 2.35832 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -4.94288u^{47} - 21.8766u^{46} + \cdots + 9.37981u - 7.26149 \\ 4.96483u^{47} + 22.7433u^{46} + \cdots - 14.7101u + 10.7515 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -6.04428u^{47} - 27.6064u^{46} + \cdots + 20.6150u - 16.9423 \\ -2.51068u^{47} - 11.2678u^{46} + \cdots - 1.71292u - 2.80504 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 11.3622u^{47} + 51.7182u^{46} + \cdots - 26.5973u + 23.3987 \\ -5.66757u^{47} - 25.9601u^{46} + \cdots + 13.9293u - 11.6611 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 8.04141u^{47} + 37.0293u^{46} + \cdots - 19.3845u + 17.3790 \\ 2.60719u^{47} + 11.5090u^{46} + \cdots - 4.18449u + 4.62988 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -13.2513u^{47} - 60.2886u^{46} + \cdots + 38.3301u - 26.3350 \\ 3.34357u^{47} + 15.6687u^{46} + \cdots - 12.2401u + 8.32195 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 2.33481u^{47} + 13.3744u^{46} + \cdots - 39.2881u + 10.9979 \\ 7.35824u^{47} + 32.4555u^{46} + \cdots - 10.3499u + 14.2366 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -19.7887u^{47} - 91.3587u^{46} + \cdots + 63.0740u - 44.5314 \\ 3.74782u^{47} + 17.8545u^{46} + \cdots - 15.1475u + 9.58291 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 10.0581u^{47} + 46.4043u^{46} + \cdots - 19.1110u + 8.00027$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{48} - 9u^{47} + \cdots - 148u + 13$
c_2	$u^{48} + u^{47} + \cdots + 9u + 1$
c_3	$u^{48} - 13u^{46} + \cdots - 839u + 167$
c_4	$u^{48} - 2u^{47} + \cdots - 3u + 1$
c_5	$u^{48} + 6u^{47} + \cdots - 691u + 107$
c_6	$u^{48} + 5u^{47} + \cdots + u + 1$
c_7	$u^{48} + 22u^{46} + \cdots - 2u + 1$
c_8	$u^{48} - 3u^{47} + \cdots - 3u + 1$
c_9	$u^{48} + 9u^{46} + \cdots + 9u + 19$
c_{10}	$u^{48} - u^{47} + \cdots - 11u + 1$
c_{11}	$u^{48} + 11u^{47} + \cdots - 9u + 1$
c_{12}	$u^{48} + 22u^{46} + \cdots + 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{48} - 7y^{47} + \cdots - 1182y + 169$
c_2	$y^{48} + 7y^{47} + \cdots - 5y + 1$
c_3	$y^{48} - 26y^{47} + \cdots - 375265y + 27889$
c_4	$y^{48} + 66y^{46} + \cdots - 11y + 1$
c_5	$y^{48} - 14y^{47} + \cdots + 63511y + 11449$
c_6	$y^{48} - 39y^{47} + \cdots - 19y + 1$
c_7, c_{12}	$y^{48} + 44y^{47} + \cdots + 8y + 1$
c_8	$y^{48} - 13y^{47} + \cdots + 9y + 1$
c_9	$y^{48} + 18y^{47} + \cdots + 4137y + 361$
c_{10}	$y^{48} + 31y^{47} + \cdots + 7y + 1$
c_{11}	$y^{48} + 17y^{47} + \cdots - 31y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.323313 + 0.989973I$ $a = 1.52900 + 0.86471I$ $b = -0.988508 + 0.236721I$	$0.65328 - 4.23580I$	$-2.72261 + 6.75924I$
$u = 0.323313 - 0.989973I$ $a = 1.52900 - 0.86471I$ $b = -0.988508 - 0.236721I$	$0.65328 + 4.23580I$	$-2.72261 - 6.75924I$
$u = -0.942244 + 0.027714I$ $a = -0.41555 + 1.61877I$ $b = 0.196945 + 0.984597I$	$-7.10514 + 5.05893I$	$-13.2952 - 5.2504I$
$u = -0.942244 - 0.027714I$ $a = -0.41555 - 1.61877I$ $b = 0.196945 - 0.984597I$	$-7.10514 - 5.05893I$	$-13.2952 + 5.2504I$
$u = 0.698711 + 0.581088I$ $a = -0.19127 - 1.42820I$ $b = 0.95270 - 1.13711I$	$0.89104 - 4.37097I$	$-8.0911 + 15.8729I$
$u = 0.698711 - 0.581088I$ $a = -0.19127 + 1.42820I$ $b = 0.95270 + 1.13711I$	$0.89104 + 4.37097I$	$-8.0911 - 15.8729I$
$u = 0.284428 + 0.839495I$ $a = -1.59869 - 0.85484I$ $b = 0.832646 - 0.392842I$	$1.85426 - 3.44721I$	$6.49243 + 5.23215I$
$u = 0.284428 - 0.839495I$ $a = -1.59869 + 0.85484I$ $b = 0.832646 + 0.392842I$	$1.85426 + 3.44721I$	$6.49243 - 5.23215I$
$u = -0.458317 + 0.743648I$ $a = -0.227011 + 0.436529I$ $b = 1.219200 + 0.659650I$	$1.73270 + 3.60708I$	$0.56592 - 4.52918I$
$u = -0.458317 - 0.743648I$ $a = -0.227011 - 0.436529I$ $b = 1.219200 - 0.659650I$	$1.73270 - 3.60708I$	$0.56592 + 4.52918I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.836304 + 0.229387I$ $a = -0.587111 - 0.776985I$ $b = -0.94586 - 1.31735I$	$-6.44600 + 1.35927I$	$-9.28290 + 7.79677I$
$u = 0.836304 - 0.229387I$ $a = -0.587111 + 0.776985I$ $b = -0.94586 + 1.31735I$	$-6.44600 - 1.35927I$	$-9.28290 - 7.79677I$
$u = 0.381585 + 0.750870I$ $a = -1.067870 - 0.404368I$ $b = -0.676066 + 0.093119I$	$-7.07800 + 2.68697I$	$-9.85312 - 2.76114I$
$u = 0.381585 - 0.750870I$ $a = -1.067870 + 0.404368I$ $b = -0.676066 - 0.093119I$	$-7.07800 - 2.68697I$	$-9.85312 + 2.76114I$
$u = 0.371126 + 0.676560I$ $a = -0.907521 - 0.141228I$ $b = -0.090093 - 0.862031I$	$-2.88177 - 2.17171I$	$-7.98882 + 3.07416I$
$u = 0.371126 - 0.676560I$ $a = -0.907521 + 0.141228I$ $b = -0.090093 + 0.862031I$	$-2.88177 + 2.17171I$	$-7.98882 - 3.07416I$
$u = -0.613647 + 0.419320I$ $a = -0.20148 + 2.40562I$ $b = 0.300703 + 1.282690I$	$-5.19004 + 6.90608I$	$1.86956 - 11.58644I$
$u = -0.613647 - 0.419320I$ $a = -0.20148 - 2.40562I$ $b = 0.300703 - 1.282690I$	$-5.19004 - 6.90608I$	$1.86956 + 11.58644I$
$u = 0.675440 + 1.077080I$ $a = -0.179436 - 0.592000I$ $b = 0.725986 - 0.647457I$	$-0.27210 - 4.10719I$	0
$u = 0.675440 - 1.077080I$ $a = -0.179436 + 0.592000I$ $b = 0.725986 + 0.647457I$	$-0.27210 + 4.10719I$	0

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.043250+0.781150I$ $a=\ \ 0.509607+0.927605I$ $b=\ \ 1.018740+0.860179I$	$-2.05360+2.11142I$	0
$u=-1.043250-0.781150I$ $a=\ \ 0.509607-0.927605I$ $b=\ \ 1.018740-0.860179I$	$-2.05360-2.11142I$	0
$u=-1.284530+0.239480I$ $a=-0.399986-1.204350I$ $b=-0.435109-0.561417I$	$-4.21558+6.94790I$	0
$u=-1.284530-0.239480I$ $a=-0.399986+1.204350I$ $b=-0.435109+0.561417I$	$-4.21558-6.94790I$	0
$u=-0.669762+0.093142I$ $a=\ \ 0.163525+0.752714I$ $b=-1.48640+1.10968I$	$-4.81680+4.38217I$	$-18.6364-7.3757I$
$u=-0.669762-0.093142I$ $a=\ \ 0.163525-0.752714I$ $b=-1.48640-1.10968I$	$-4.81680-4.38217I$	$-18.6364+7.3757I$
$u=\ \ 1.302450+0.398915I$ $a=\ \ 0.087086-0.479726I$ $b=-0.278274-0.910565I$	$-1.54665-1.19900I$	0
$u=\ \ 1.302450-0.398915I$ $a=\ \ 0.087086+0.479726I$ $b=-0.278274+0.910565I$	$-1.54665+1.19900I$	0
$u=\ \ 0.921996+1.030680I$ $a=\ \ 0.064361-0.951015I$ $b=\ \ 0.516939-0.902340I$	$-0.33650-3.55680I$	0
$u=\ \ 0.921996-1.030680I$ $a=\ \ 0.064361+0.951015I$ $b=\ \ 0.516939+0.902340I$	$-0.33650+3.55680I$	0

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.402196 + 0.391189I$ $a = 0.53179 + 2.69024I$ $b = 0.313342 - 0.390046I$	$-6.32714 + 11.48380I$	$-3.80151 - 6.75688I$
$u = 0.402196 - 0.391189I$ $a = 0.53179 - 2.69024I$ $b = 0.313342 + 0.390046I$	$-6.32714 - 11.48380I$	$-3.80151 + 6.75688I$
$u = 1.03238 + 1.01701I$ $a = 0.295513 + 0.998318I$ $b = -1.18186 + 1.17458I$	$-5.76113 - 7.41097I$	0
$u = 1.03238 - 1.01701I$ $a = 0.295513 - 0.998318I$ $b = -1.18186 - 1.17458I$	$-5.76113 + 7.41097I$	0
$u = -0.458599 + 0.197952I$ $a = -1.72505 - 1.33299I$ $b = 0.145824 + 0.735250I$	$-0.85759 - 6.28048I$	$-3.35947 + 5.36145I$
$u = -0.458599 - 0.197952I$ $a = -1.72505 + 1.33299I$ $b = 0.145824 - 0.735250I$	$-0.85759 + 6.28048I$	$-3.35947 - 5.36145I$
$u = -0.456476 + 0.048563I$ $a = -0.55231 - 1.94899I$ $b = 1.330640 - 0.183402I$	$-6.60557 - 3.78084I$	$-10.02784 + 2.92978I$
$u = -0.456476 - 0.048563I$ $a = -0.55231 + 1.94899I$ $b = 1.330640 + 0.183402I$	$-6.60557 + 3.78084I$	$-10.02784 - 2.92978I$
$u = 1.22043 + 0.95923I$ $a = 0.088758 + 1.108040I$ $b = -0.540184 + 0.852891I$	$-1.34081 - 5.21735I$	0
$u = 1.22043 - 0.95923I$ $a = 0.088758 - 1.108040I$ $b = -0.540184 - 0.852891I$	$-1.34081 + 5.21735I$	0

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.24489+0.96823I$ $a=-0.097442-0.925954I$ $b=-0.99555-1.13135I$	$-5.80176+12.59480I$	0
$u=-1.24489-0.96823I$ $a=-0.097442+0.925954I$ $b=-0.99555+1.13135I$	$-5.80176-12.59480I$	0
$u=0.242257+0.240946I$ $a=-1.40833+0.25957I$ $b=0.21891-1.54026I$	$-2.72183-2.30866I$	$-9.26131+2.47203I$
$u=0.242257-0.240946I$ $a=-1.40833-0.25957I$ $b=0.21891+1.54026I$	$-2.72183+2.30866I$	$-9.26131-2.47203I$
$u=0.33508+1.79441I$ $a=-0.278877+0.012260I$ $b=0.070595-0.424345I$	$-2.70806-2.30035I$	0
$u=0.33508-1.79441I$ $a=-0.278877-0.012260I$ $b=0.070595+0.424345I$	$-2.70806+2.30035I$	0
$u=-4.35598+0.63492I$ $a=0.0682886+0.0116737I$ $b=0.274736-0.068638I$	$-3.44230+2.20683I$	0
$u=-4.35598-0.63492I$ $a=0.0682886-0.0116737I$ $b=0.274736+0.068638I$	$-3.44230-2.20683I$	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{48}-9u^{47}+\cdots-148u+13)$ $\cdot(u^{199}+12u^{198}+\cdots-55449899u+2028184)$
c_2	$(u^{48}+u^{47}+\cdots+9u+1)(u^{199}-2u^{198}+\cdots+47u+1)$
c_3	$(u^{48}-13u^{46}+\cdots-839u+167)$ $\cdot(u^{199}+u^{198}+\cdots+1717896531745u+8566907748177)$
c_4	$(u^{48}-2u^{47}+\cdots-3u+1)(u^{199}-u^{198}+\cdots-51u+31)$
c_5	$(u^{48}+6u^{47}+\cdots-691u+107)$ $\cdot(u^{199}-9u^{198}+\cdots+50548405469343u+2906312135033)$
c_6	$(u^{48}+5u^{47}+\cdots+u+1)(u^{199}-4u^{198}+\cdots+109u+4)$
c_7	$(u^{48}+22u^{46}+\cdots-2u+1)(u^{199}-u^{198}+\cdots+106056u+2767)$
c_8	$(u^{48}-3u^{47}+\cdots-3u+1)$ $\cdot(u^{199}-2u^{198}+\cdots+45150805u+2117682)$
c_9	$(u^{48}+9u^{46}+\cdots+9u+19)$ $\cdot(u^{199}-u^{198}+\cdots-1706345869u+1142423049)$
c_{10}	$(u^{48}-u^{47}+\cdots-11u+1)(u^{199}+4u^{198}+\cdots+656177u+80681)$
c_{11}	$(u^{48}+11u^{47}+\cdots-9u+1)(u^{199}+6u^{198}+\cdots-37u+1)$
c_{12}	$(u^{48}+22u^{46}+\cdots+2u+1)(u^{199}-u^{198}+\cdots+106056u+2767)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{48} - 7y^{47} + \cdots - 1182y + 169)$ $\cdot (y^{199} - 40y^{198} + \cdots + 781027898879017y - 4113530337856)$
c_2	$(y^{48} + 7y^{47} + \cdots - 5y + 1)(y^{199} + 26y^{198} + \cdots + 177y - 1)$
c_3	$(y^{48} - 26y^{47} + \cdots - 375265y + 27889)$ $\cdot (y^{199} - 111y^{198} + \cdots + 4.99 \times 10^{27}y - 7.34 \times 10^{25})$
c_4	$(y^{48} + 66y^{46} + \cdots - 11y + 1)(y^{199} - 13y^{198} + \cdots - 53013y - 961)$
c_5	$(y^{48} - 14y^{47} + \cdots + 63511y + 11449)$ $\cdot (y^{199} + 65y^{198} + \cdots - 5.44 \times 10^{26}y - 8.45 \times 10^{24})$
c_6	$(y^{48} - 39y^{47} + \cdots - 19y + 1)(y^{199} - 60y^{198} + \cdots + 6265y - 16)$
c_7, c_{12}	$(y^{48} + 44y^{47} + \cdots + 8y + 1)$ $\cdot (y^{199} + 159y^{198} + \cdots + 230721528y - 7656289)$
c_8	$(y^{48} - 13y^{47} + \cdots + 9y + 1)$ $\cdot (y^{199} - 58y^{198} + \cdots + 4291591582916281y - 4484577053124)$
c_9	$(y^{48} + 18y^{47} + \cdots + 4137y + 361)$ $\cdot (y^{199} - 31y^{198} + \cdots + 8.52 \times 10^{19}y - 1.31 \times 10^{18})$
c_{10}	$(y^{48} + 31y^{47} + \cdots + 7y + 1)$ $\cdot (y^{199} + 62y^{198} + \cdots - 432375389059y - 6509423761)$
c_{11}	$(y^{48} + 17y^{47} + \cdots - 31y + 1)(y^{199} + 16y^{198} + \cdots - 385y - 1)$