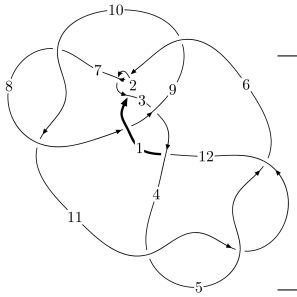
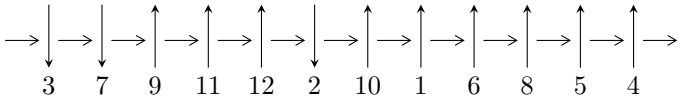
$12a_{0599}$ $(K12a_{0599})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle -6.18140 \times 10^{106} u^{103} - 1.68839 \times 10^{107} u^{102} + \cdots + 8.40136 \times 10^{106} b - 8.56625 \times 10^{106},$$
$$1.80765 \times 10^{105} u^{103} + 2.28944 \times 10^{105} u^{102} + \cdots + 1.68027 \times 10^{106} a - 7.57112 \times 10^{105},\ u^{104} + 3u^{103} + \cdots +$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 104 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. $\boldsymbol{I_1^u = \langle -6.18 \times 10^{106} u^{103} - 1.69 \times 10^{107} u^{102} + \cdots + 8.40 \times 10^{106} b - 8.57 \times 10^{106},\ 1.81 \times 10^{105} u^{103} + 2.29 \times 10^{105} u^{102} + \cdots + 1.68 \times 10^{106} a - 7.57 \times 10^{105},\ u^{104} + 3u^{103} + \cdots + 2u + 1 \rangle}$

(i) Arc colorings

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

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

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

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

$$a_6 = \begin{pmatrix} -u^2 + 1 \\ u^4 - 2u^2 \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} -0.107581u^{103} - 0.136254u^{102} + \cdots + 5.30403u + 0.450589 \\ 0.735762u^{103} + 2.00966u^{102} + \cdots + 2.25110u + 1.01963 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.540322u^{103} + 0.963064u^{102} + \cdots - 4.53621u - 0.0896284 \\ -0.874844u^{103} - 2.38227u^{102} + \cdots - 2.60814u - 2.37733 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1.88927u^{103} + 5.89937u^{102} + \cdots - 0.482302u + 0.853416 \\ 1.41968u^{103} + 4.11081u^{102} + \cdots + 1.60811u + 0.823482 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.340032u^{103} - 0.0211301u^{102} + \cdots + 4.20707u - 1.59516 \\ 2.19574u^{103} + 4.81322u^{102} + \cdots + 3.24526u + 1.19118 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.540859u^{103} + 2.31345u^{102} + \cdots + 5.26158u - 0.675638 \\ 2.57621u^{103} + 6.00112u^{102} + \cdots + 4.56913u + 1.82368 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -2.37733u^{103} - 6.25714u^{102} + \cdots - 0.753556u - 2.14652 \\ -0.657904u^{103} - 2.25986u^{102} + \cdots - 1.17027u - 0.540322 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 1.01554u^{103} + 4.88122u^{102} + \cdots - 15.4275u + 5.37327$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{104}+39u^{103}+\cdots+4u+1$
c_2, c_6	$u^{104}-3u^{103}+\cdots-4u+1$
c_3	$u^{104}-u^{103}+\cdots-22u-1$
c_4, c_5, c_{11}	$u^{104}-3u^{103}+\cdots-2u+1$
c_7, c_{10}	$u^{104}+u^{103}+\cdots+34u-1$
c_8	$u^{104}+43u^{103}+\cdots+121854u+32269$
c_9	$u^{104}+5u^{103}+\cdots-325970u+195737$
c_{12}	$u^{104}+9u^{103}+\cdots-5770u-725$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{104}+53y^{103}+\cdots+28y+1$
c_2, c_6	$y^{104}-39y^{103}+\cdots-4y+1$
c_3	$y^{104}-3y^{103}+\cdots-100y+1$
c_4, c_5, c_{11}	$y^{104}-91y^{103}+\cdots-4y+1$
c_7, c_{10}	$y^{104}-71y^{103}+\cdots+844y+1$
c_8	$y^{104}-575y^{103}+\cdots-55858036808y+1041288361$
c_9	$y^{104}+501y^{103}+\cdots-1559554340176y+38312973169$
c_{12}	$y^{104}+17y^{103}+\cdots+2768600y+525625$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.989526 + 0.131041I$ $a = 0.883619 - 0.264649I$ $b = 0.740437 - 1.108110I$	$-0.14536 - 4.59513I$	0
$u = 0.989526 - 0.131041I$ $a = 0.883619 + 0.264649I$ $b = 0.740437 + 1.108110I$	$-0.14536 + 4.59513I$	0
$u = -0.846433 + 0.492394I$ $a = 0.824251 + 0.236983I$ $b = 0.921699 + 0.805391I$	$5.21407 + 3.81898I$	0
$u = -0.846433 - 0.492394I$ $a = 0.824251 - 0.236983I$ $b = 0.921699 - 0.805391I$	$5.21407 - 3.81898I$	0
$u = 0.846368 + 0.470568I$ $a = -0.896666 + 0.390579I$ $b = -0.970228 + 1.015240I$	$3.57729 - 9.85375I$	0
$u = 0.846368 - 0.470568I$ $a = -0.896666 - 0.390579I$ $b = -0.970228 - 1.015240I$	$3.57729 + 9.85375I$	0
$u = -0.345479 + 0.873329I$ $a = -0.329641 + 0.633256I$ $b = -0.515483 + 0.318246I$	$2.33648 - 3.25638I$	0
$u = -0.345479 - 0.873329I$ $a = -0.329641 - 0.633256I$ $b = -0.515483 - 0.318246I$	$2.33648 + 3.25638I$	0
$u = 0.168045 + 0.918321I$ $a = 0.681538 - 0.436064I$ $b = 0.399562 - 0.441746I$	$0.23249 - 3.75946I$	0
$u = 0.168045 - 0.918321I$ $a = 0.681538 + 0.436064I$ $b = 0.399562 + 0.441746I$	$0.23249 + 3.75946I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.038150 + 0.281331I$ $a = 0.574175 - 0.696383I$ $b = 0.171610 - 1.125820I$	$-3.13606 + 2.08755I$	0
$u = 1.038150 - 0.281331I$ $a = 0.574175 + 0.696383I$ $b = 0.171610 + 1.125820I$	$-3.13606 - 2.08755I$	0
$u = -1.088660 + 0.148356I$ $a = -0.569342 - 0.242387I$ $b = -0.601460 - 0.855575I$	$1.47163 - 0.22582I$	0
$u = -1.088660 - 0.148356I$ $a = -0.569342 + 0.242387I$ $b = -0.601460 + 0.855575I$	$1.47163 + 0.22582I$	0
$u = 1.021500 + 0.461685I$ $a = -0.132237 - 0.773987I$ $b = -0.637551 - 0.715827I$	$2.90669 + 8.60744I$	0
$u = 1.021500 - 0.461685I$ $a = -0.132237 + 0.773987I$ $b = -0.637551 + 0.715827I$	$2.90669 - 8.60744I$	0
$u = 0.714848 + 0.496575I$ $a = -0.391758 + 0.307832I$ $b = -0.268115 + 0.809910I$	$-2.18985 - 2.17775I$	0
$u = 0.714848 - 0.496575I$ $a = -0.391758 - 0.307832I$ $b = -0.268115 - 0.809910I$	$-2.18985 + 2.17775I$	0
$u = -0.277989 + 0.805746I$ $a = -0.43532 + 2.02951I$ $b = -1.04109 + 0.98300I$	$3.40888 - 8.39494I$	0
$u = -0.277989 - 0.805746I$ $a = -0.43532 - 2.02951I$ $b = -1.04109 - 0.98300I$	$3.40888 + 8.39494I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.271419 + 0.800534I$ $a = 0.32107 + 2.33269I$ $b = 1.07449 + 1.16223I$	$1.7395 + 14.3608I$	$6.00000 - 9.55805I$
$u = 0.271419 - 0.800534I$ $a = 0.32107 - 2.33269I$ $b = 1.07449 - 1.16223I$	$1.7395 - 14.3608I$	$6.00000 + 9.55805I$
$u = 0.301715 + 0.780914I$ $a = -0.25793 + 1.53795I$ $b = 0.565053 + 0.968257I$	$-3.64893 + 6.60879I$	$0. - 7.74517I$
$u = 0.301715 - 0.780914I$ $a = -0.25793 - 1.53795I$ $b = 0.565053 - 0.968257I$	$-3.64893 - 6.60879I$	$0. + 7.74517I$
$u = -1.048700 + 0.562138I$ $a = 0.176179 - 0.398546I$ $b = 0.471374 - 0.301344I$	$4.38851 - 2.18462I$	0
$u = -1.048700 - 0.562138I$ $a = 0.176179 + 0.398546I$ $b = 0.471374 + 0.301344I$	$4.38851 + 2.18462I$	0
$u = 0.162530 + 0.740437I$ $a = 0.17843 - 2.11043I$ $b = -0.437804 - 1.169340I$	$-5.77665 + 1.73251I$	$-2.33025 - 1.80037I$
$u = 0.162530 - 0.740437I$ $a = 0.17843 + 2.11043I$ $b = -0.437804 + 1.169340I$	$-5.77665 - 1.73251I$	$-2.33025 + 1.80037I$
$u = -1.248350 + 0.112459I$ $a = 0.226760 + 0.106758I$ $b = -0.791191 - 0.335299I$	$2.16662 - 0.42827I$	0
$u = -1.248350 - 0.112459I$ $a = 0.226760 - 0.106758I$ $b = -0.791191 + 0.335299I$	$2.16662 + 0.42827I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.201135 + 0.708814I$ $a = -0.65799 - 2.69199I$ $b = -1.17052 - 1.32325I$	$-2.39932 + 8.07353I$	$2.96084 - 8.86760I$
$u = 0.201135 - 0.708814I$ $a = -0.65799 + 2.69199I$ $b = -1.17052 + 1.32325I$	$-2.39932 - 8.07353I$	$2.96084 + 8.86760I$
$u = -0.186873 + 0.690936I$ $a = 0.77808 - 2.16675I$ $b = 1.12913 - 0.94113I$	$-1.00539 - 3.04538I$	$5.02927 + 4.37384I$
$u = -0.186873 - 0.690936I$ $a = 0.77808 + 2.16675I$ $b = 1.12913 + 0.94113I$	$-1.00539 + 3.04538I$	$5.02927 - 4.37384I$
$u = -1.280030 + 0.182164I$ $a = 2.30865 - 1.83870I$ $b = -0.533197 - 0.041483I$	$4.29134 - 4.85987I$	0
$u = -1.280030 - 0.182164I$ $a = 2.30865 + 1.83870I$ $b = -0.533197 + 0.041483I$	$4.29134 + 4.85987I$	0
$u = 1.308150 + 0.207596I$ $a = -12.4273 + 8.9998I$ $b = 0.0918274 + 0.0787198I$	$4.66635 + 0.78468I$	0
$u = 1.308150 - 0.207596I$ $a = -12.4273 - 8.9998I$ $b = 0.0918274 - 0.0787198I$	$4.66635 - 0.78468I$	0
$u = 1.320460 + 0.153660I$ $a = -1.46352 + 0.79473I$ $b = 0.811793 + 0.351138I$	$5.21559 + 1.16431I$	0
$u = 1.320460 - 0.153660I$ $a = -1.46352 - 0.79473I$ $b = 0.811793 - 0.351138I$	$5.21559 - 1.16431I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.310210+0.236069I$ $a=-0.157080-1.091820I$ $b=\ \ 0.160988-0.095874I$	$3.04010-0.83758I$	0
$u=-1.310210-0.236069I$ $a=-0.157080+1.091820I$ $b=\ \ 0.160988+0.095874I$	$3.04010+0.83758I$	0
$u=-1.343800+0.078810I$ $a=\ \ 0.382497+1.052170I$ $b=-1.57134-0.37622I$	$5.39810+4.39371I$	0
$u=-1.343800-0.078810I$ $a=\ \ 0.382497-1.052170I$ $b=-1.57134+0.37622I$	$5.39810-4.39371I$	0
$u=\ \ 1.342890+0.103976I$ $a=-0.658717+1.060560I$ $b=\ \ 1.54649+0.00805I$	$6.33561+0.56533I$	0
$u=\ \ 1.342890-0.103976I$ $a=-0.658717-1.060560I$ $b=\ \ 1.54649-0.00805I$	$6.33561-0.56533I$	0
$u=\ \ 1.338520+0.257583I$ $a=\ \ 0.74243-1.24808I$ $b=-0.711072-0.202051I$	$3.75246+5.21120I$	0
$u=\ \ 1.338520-0.257583I$ $a=\ \ 0.74243+1.24808I$ $b=-0.711072+0.202051I$	$3.75246-5.21120I$	0
$u=\ \ 1.345000+0.244038I$ $a=\ \ 1.001560-0.942439I$ $b=-0.814953+0.094462I$	$3.81873+5.22294I$	0
$u=\ \ 1.345000-0.244038I$ $a=\ \ 1.001560+0.942439I$ $b=-0.814953-0.094462I$	$3.81873-5.22294I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.353180+0.207483I$ $a=\ 0.161585+0.980965I$ $b=\ 0.347548+0.906497I$	$6.06988-3.47205I$	0
$u=-1.353180-0.207483I$ $a=\ 0.161585-0.980965I$ $b=\ 0.347548-0.906497I$	$6.06988+3.47205I$	0
$u=-0.103587+0.622209I$ $a=\ 0.287222-1.328960I$ $b=\ 0.475281-0.083983I$	$-0.80872-1.97143I$	$3.33449+4.65511I$
$u=-0.103587-0.622209I$ $a=\ 0.287222+1.328960I$ $b=\ 0.475281+0.083983I$	$-0.80872+1.97143I$	$3.33449-4.65511I$
$u=-0.142575+0.614426I$ $a=\ 0.280636-0.888346I$ $b=\ 0.811142-0.030751I$	$-0.87795-2.08035I$	$2.20405+5.01346I$
$u=-0.142575-0.614426I$ $a=\ 0.280636+0.888346I$ $b=\ 0.811142+0.030751I$	$-0.87795+2.08035I$	$2.20405-5.01346I$
$u=\ 0.621086+0.084207I$ $a=\ 0.373074-0.207627I$ $b=\ 0.760421+0.785124I$	$-0.13085+4.71370I$	$6.12729-5.66701I$
$u=\ 0.621086-0.084207I$ $a=\ 0.373074+0.207627I$ $b=\ 0.760421-0.785124I$	$-0.13085-4.71370I$	$6.12729+5.66701I$
$u=-0.241643+0.573906I$ $a=\ 2.38786+0.68773I$ $b=\ 1.52226+0.87466I$	$2.66071-5.66668I$	$8.90037+9.71585I$
$u=-0.241643-0.573906I$ $a=\ 2.38786-0.68773I$ $b=\ 1.52226-0.87466I$	$2.66071+5.66668I$	$8.90037-9.71585I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.376580 + 0.166688I$ $a = -1.39265 + 1.24070I$ $b = 0.99625 + 1.78378I$	$8.70992 - 0.92166I$	0
$u = 1.376580 - 0.166688I$ $a = -1.39265 - 1.24070I$ $b = 0.99625 - 1.78378I$	$8.70992 + 0.92166I$	0
$u = -1.378030 + 0.177745I$ $a = 1.41515 + 1.05782I$ $b = -0.55253 + 1.95449I$	$8.91266 - 4.20677I$	0
$u = -1.378030 - 0.177745I$ $a = 1.41515 - 1.05782I$ $b = -0.55253 - 1.95449I$	$8.91266 + 4.20677I$	0
$u = -1.357880 + 0.299840I$ $a = -1.12463 - 1.04934I$ $b = 0.614318 - 1.177360I$	$-0.97490 - 5.49155I$	0
$u = -1.357880 - 0.299840I$ $a = -1.12463 + 1.04934I$ $b = 0.614318 + 1.177360I$	$-0.97490 + 5.49155I$	0
$u = 0.264003 + 0.545428I$ $a = -0.773141 - 0.191095I$ $b = -0.147180 + 0.538599I$	$-1.60451 - 1.80811I$	$0.324463 - 0.433644I$
$u = 0.264003 - 0.545428I$ $a = -0.773141 + 0.191095I$ $b = -0.147180 - 0.538599I$	$-1.60451 + 1.80811I$	$0.324463 + 0.433644I$
$u = 1.370800 + 0.278221I$ $a = 0.91185 - 1.51022I$ $b = -1.39185 - 1.01737I$	$3.93475 + 6.56935I$	0
$u = 1.370800 - 0.278221I$ $a = 0.91185 + 1.51022I$ $b = -1.39185 + 1.01737I$	$3.93475 - 6.56935I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.381400+0.222297I$ $a=\ \ 0.824612-0.474541I$ $b=\ \ 1.46910+1.43358I$	$8.29547-3.50526I$	0
$u=-1.381400-0.222297I$ $a=\ \ 0.824612+0.474541I$ $b=\ \ 1.46910-1.43358I$	$8.29547+3.50526I$	0
$u=\ \ 1.383110+0.231040I$ $a=-0.666482-0.888282I$ $b=-1.83700+1.13231I$	$7.81652+8.64316I$	0
$u=\ \ 1.383110-0.231040I$ $a=-0.666482+0.888282I$ $b=-1.83700-1.13231I$	$7.81652-8.64316I$	0
$u=-0.031347+0.595167I$ $a=-6.20853-6.78983I$ $b=\ \ 0.207524-0.127759I$	$0.49697+2.09340I$	$27.5744+57.2719I$
$u=-0.031347-0.595167I$ $a=-6.20853+6.78983I$ $b=\ \ 0.207524+0.127759I$	$0.49697-2.09340I$	$27.5744-57.2719I$
$u=\ \ 0.242443+0.543233I$ $a=-2.10102+1.43682I$ $b=-1.17748+1.11016I$	$3.14800+0.65168I$	$10.52306-3.36761I$
$u=\ \ 0.242443-0.543233I$ $a=-2.10102-1.43682I$ $b=-1.17748-1.11016I$	$3.14800-0.65168I$	$10.52306+3.36761I$
$u=-1.376820+0.285343I$ $a=-1.15345-1.60765I$ $b=\ \ 1.39674-1.41467I$	$2.60570-11.68300I$	0
$u=-1.376820-0.285343I$ $a=-1.15345+1.60765I$ $b=\ \ 1.39674+1.41467I$	$2.60570+11.68300I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.41904+0.32371I$ $a=\ \ 1.07007+1.52516I$ $b=-1.17872+1.21776I$	$7.1225-18.4287I$	0
$u=-1.41904-0.32371I$ $a=\ \ 1.07007-1.52516I$ $b=-1.17872-1.21776I$	$7.1225+18.4287I$	0
$u=\ \ 1.42240+0.32497I$ $a=-0.87371+1.42713I$ $b=\ \ 1.16421+1.04993I$	$8.8252+12.4850I$	0
$u=\ \ 1.42240-0.32497I$ $a=-0.87371-1.42713I$ $b=\ \ 1.16421-1.04993I$	$8.8252-12.4850I$	0
$u=-1.42942+0.31413I$ $a=\ \ 0.967730+0.879064I$ $b=-0.751390+0.981643I$	$1.87186-10.58530I$	0
$u=-1.42942-0.31413I$ $a=\ \ 0.967730-0.879064I$ $b=-0.751390-0.981643I$	$1.87186+10.58530I$	0
$u=\ \ 1.44617+0.33353I$ $a=-0.315245+0.785569I$ $b=\ \ 0.809528+0.474654I$	$8.03571+7.55819I$	0
$u=\ \ 1.44617-0.33353I$ $a=-0.315245-0.785569I$ $b=\ \ 0.809528-0.474654I$	$8.03571-7.55819I$	0
$u=\ \ 0.129827+0.487589I$ $a=\ \ 0.25714+2.36854I$ $b=-0.368575+0.570292I$	$1.33150+0.83954I$	$4.54914+0.82518I$
$u=\ \ 0.129827-0.487589I$ $a=\ \ 0.25714-2.36854I$ $b=-0.368575-0.570292I$	$1.33150-0.83954I$	$4.54914-0.82518I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.50071+0.02299I$ $a=-0.394330-0.207023I$ $b=\ \ 1.157920+0.717227I$	$11.3902+8.8099I$	0
$u=-1.50071-0.02299I$ $a=-0.394330+0.207023I$ $b=\ \ 1.157920-0.717227I$	$11.3902-8.8099I$	0
$u=\ \ 1.50978+0.01787I$ $a=\ \ 0.369926-0.133517I$ $b=-1.156850+0.453893I$	$13.17090-2.70458I$	0
$u=\ \ 1.50978-0.01787I$ $a=\ \ 0.369926+0.133517I$ $b=-1.156850-0.453893I$	$13.17090+2.70458I$	0
$u=\ \ 0.302753+0.373014I$ $a=-1.08166+3.47219I$ $b=\ \ 0.443702+1.333090I$	$3.69173+2.02129I$	$11.76908-5.97446I$
$u=\ \ 0.302753-0.373014I$ $a=-1.08166-3.47219I$ $b=\ \ 0.443702-1.333090I$	$3.69173-2.02129I$	$11.76908+5.97446I$
$u=-0.337844+0.323246I$ $a=\ \ 0.77129+3.39601I$ $b=-0.824085+1.122500I$	$3.45433+2.90974I$	$11.59556-0.92056I$
$u=-0.337844-0.323246I$ $a=\ \ 0.77129-3.39601I$ $b=-0.824085-1.122500I$	$3.45433-2.90974I$	$11.59556+0.92056I$
$u=-0.460462+0.007635I$ $a=\ \ 0.126962+0.726061I$ $b=-0.808530-0.289273I$	$1.167780+0.139175I$	$10.38139-0.59279I$
$u=-0.460462-0.007635I$ $a=\ \ 0.126962-0.726061I$ $b=-0.808530+0.289273I$	$1.167780-0.139175I$	$10.38139+0.59279I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.49255+0.37784I$ $a=\ \ 0.002911+0.308059I$ $b=-0.431301+0.112831I$	$5.52489-1.27377I$	0
$u=-1.49255-0.37784I$ $a=\ \ 0.002911-0.308059I$ $b=-0.431301-0.112831I$	$5.52489+1.27377I$	0
$u=-1.59052$ $a=-0.115804$ $b=\ \ 0.474770$	5.77568	0
$u=-0.321853$ $a=\ \ 1.46602$ $b=-0.616577$	0.922749	11.9180

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$u^{104} + 39u^{103} + \cdots + 4u + 1$
c_2, c_6	$u^{104} - 3u^{103} + \cdots - 4u + 1$
c_3	$u^{104} - u^{103} + \cdots - 22u - 1$
c_4, c_5, c_{11}	$u^{104} - 3u^{103} + \cdots - 2u + 1$
c_7, c_{10}	$u^{104} + u^{103} + \cdots + 34u - 1$
c_8	$u^{104} + 43u^{103} + \cdots + 121854u + 32269$
c_9	$u^{104} + 5u^{103} + \cdots - 325970u + 195737$
c_{12}	$u^{104} + 9u^{103} + \cdots - 5770u - 725$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y^{104}+53y^{103}+\cdots+28y+1$
c_2, c_6	$y^{104}-39y^{103}+\cdots-4y+1$
c_3	$y^{104}-3y^{103}+\cdots-100y+1$
c_4, c_5, c_{11}	$y^{104}-91y^{103}+\cdots-4y+1$
c_7, c_{10}	$y^{104}-71y^{103}+\cdots+844y+1$
c_8	$y^{104}-575y^{103}+\cdots-55858036808y+1041288361$
c_9	$y^{104}+501y^{103}+\cdots-1559554340176y+38312973169$
c_{12}	$y^{104}+17y^{103}+\cdots+2768600y+525625$