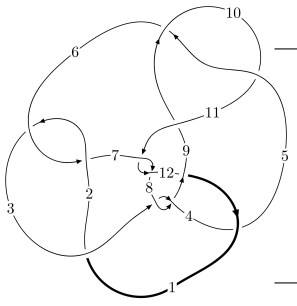
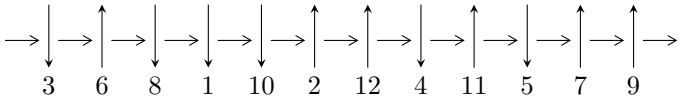
$12a_{0342}$ $(K12a_{0342})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle -1.20197 \times 10^{404} u^{155} - 1.98407 \times 10^{404} u^{154} + \cdots + 1.03297 \times 10^{404} b - 1.24809 \times 10^{407},$$
$$- 2.63389 \times 10^{406} u^{155} + 8.44260 \times 10^{406} u^{154} + \cdots + 7.75764 \times 10^{406} a + 6.28696 \times 10^{409},$$
$$u^{156} + u^{155} + \cdots - 643u + 751 \rangle$$
$$I_2^u = \langle -7283u^{37} + 6235u^{36} + \cdots + 995b - 2491,\ 3092u^{37} - 2046u^{36} + \cdots + 995a + 12148,$$
$$u^{38} + 12u^{36} + \cdots + 2u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 194 representations.

[1]The image of knot diagram is generated by the software "**Draw programme**" developed by Andrew Bartholomew(`http://www.layer8.co.uk/maths/draw/index.htm#Running-draw`), where we modified some parts for our purpose(`https://github.com/CATsTAILs/LinksPainter`).

[2]All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I. $\boldsymbol{I_1^u = \langle -1.20 \times 10^{404} u^{155} - 1.98 \times 10^{404} u^{154} + \cdots + 1.03 \times 10^{404} b - 1.25 \times 10^{407},\ -2.63 \times 10^{406} u^{155} + 8.44 \times 10^{406} u^{154} + \cdots + 7.76 \times 10^{406} a + 6.29 \times 10^{409},\ u^{156} + u^{155} + \cdots - 643u + 751 \rangle}$

(i) Arc colorings

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_2 = \begin{pmatrix} 0.339523u^{155} - 1.08830u^{154} + \cdots + 1312.04u - 810.422 \\ 1.16361u^{155} + 1.92074u^{154} + \cdots - 990.348u + 1208.25 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 0.887263u^{155} - 0.732362u^{154} + \cdots + 1494.76u - 674.462 \\ 0.803609u^{155} + 1.94703u^{154} + \cdots - 1525.03u + 1352.30 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.240562u^{155} + 0.684041u^{154} + \cdots - 624.185u + 655.447 \\ -0.222710u^{155} - 1.77408u^{154} + \cdots + 1850.31u - 1384.20 \end{pmatrix}$$

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

$$a_{12} = \begin{pmatrix} 1.58683u^{155} - 2.09974u^{154} + \cdots + 4195.43u - 1967.02 \\ -0.323186u^{155} + 3.07800u^{154} + \cdots - 4460.22u + 2614.13 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.724223u^{155} - 4.21579u^{154} + \cdots + 3923.98u - 2938.41 \\ 0.518971u^{155} + 2.43169u^{154} + \cdots - 2514.80u + 1834.96 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.363334u^{155} - 0.0490247u^{154} + \cdots + 370.041u + 97.1690 \\ 0.721342u^{155} + 2.37469u^{154} + \cdots - 1453.60u + 1335.56 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u^3 \\ u^3 + u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.428023u^{155} - 1.47511u^{154} + \cdots + 2752.95u - 1358.47 \\ 0.845539u^{155} + 0.990339u^{154} + \cdots - 279.843u + 478.958 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -6.61247u^{155} - 7.18823u^{154} + \cdots - 439.660u - 3074.15$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{156} + 68u^{155} + \cdots + 586213058u + 32137561$
c_2, c_6	$u^{156} - 2u^{155} + \cdots - 17042u + 5669$
c_3, c_8	$u^{156} - u^{155} + \cdots + 6147u + 2449$
c_4	$u^{156} - 4u^{155} + \cdots - 513066u + 23269$
c_5, c_{10}	$u^{156} - u^{155} + \cdots + 643u + 751$
c_7, c_{11}	$u^{156} - 3u^{155} + \cdots + 107845u + 85523$
c_9	$u^{156} - 77u^{155} + \cdots - 10171145u + 564001$
c_{12}	$u^{156} + 9u^{155} + \cdots - 1045u + 521$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{156} + 60y^{155} + \cdots + 29158613325391790y + 1032822827028721$
c_2, c_6	$y^{156} + 68y^{155} + \cdots + 586213058y + 32137561$
c_3, c_8	$y^{156} - 83y^{155} + \cdots - 131376593y + 5997601$
c_4	$y^{156} - 20y^{155} + \cdots - 25116154598y + 541446361$
c_5, c_{10}	$y^{156} + 77y^{155} + \cdots + 10171145y + 564001$
c_7, c_{11}	$y^{156} - 105y^{155} + \cdots + 830770663883y + 7314183529$
c_9	$y^{156} + 25y^{155} + \cdots + 20263498622645y + 318097128001$
c_{12}	$y^{156} + 11y^{155} + \cdots + 19725051y + 271441$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.314686 + 0.948049I$ $a = -1.122900 + 0.399488I$ $b = -0.05478 - 1.90960I$	$4.50020 + 0.21846I$	0
$u = 0.314686 - 0.948049I$ $a = -1.122900 - 0.399488I$ $b = -0.05478 + 1.90960I$	$4.50020 - 0.21846I$	0
$u = -0.170790 + 0.987084I$ $a = 0.633623 - 1.049930I$ $b = -0.357628 + 0.104624I$	$3.20120 - 1.52428I$	0
$u = -0.170790 - 0.987084I$ $a = 0.633623 + 1.049930I$ $b = -0.357628 - 0.104624I$	$3.20120 + 1.52428I$	0
$u = -0.389580 + 0.925758I$ $a = -3.06881 + 1.42393I$ $b = 2.74803 + 0.41625I$	$-0.36759 - 1.52334I$	0
$u = -0.389580 - 0.925758I$ $a = -3.06881 - 1.42393I$ $b = 2.74803 - 0.41625I$	$-0.36759 + 1.52334I$	0
$u = 0.764967 + 0.665148I$ $a = 0.30131 + 1.97652I$ $b = -1.77763 - 0.59009I$	$-8.04521 - 0.38455I$	0
$u = 0.764967 - 0.665148I$ $a = 0.30131 - 1.97652I$ $b = -1.77763 + 0.59009I$	$-8.04521 + 0.38455I$	0
$u = -0.287570 + 0.978275I$ $a = 1.141850 - 0.391800I$ $b = -0.447530 - 1.222970I$	$4.40725 - 3.47807I$	0
$u = -0.287570 - 0.978275I$ $a = 1.141850 + 0.391800I$ $b = -0.447530 + 1.222970I$	$4.40725 + 3.47807I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.379406 + 0.964078I$ $a = 2.31237 + 1.11954I$ $b = -2.06980 - 0.13247I$	$2.40104 - 3.09117I$	0
$u = 0.379406 - 0.964078I$ $a = 2.31237 - 1.11954I$ $b = -2.06980 + 0.13247I$	$2.40104 + 3.09117I$	0
$u = 0.168715 + 0.947032I$ $a = -0.609414 - 0.921753I$ $b = 0.157383 + 0.470877I$	$1.28269 - 2.51191I$	0
$u = 0.168715 - 0.947032I$ $a = -0.609414 + 0.921753I$ $b = 0.157383 - 0.470877I$	$1.28269 + 2.51191I$	0
$u = -0.620529 + 0.727479I$ $a = 0.916688 + 0.299057I$ $b = 0.575110 - 0.684533I$	$-2.52818 + 5.31514I$	0
$u = -0.620529 - 0.727479I$ $a = 0.916688 - 0.299057I$ $b = 0.575110 + 0.684533I$	$-2.52818 - 5.31514I$	0
$u = -0.192813 + 1.026250I$ $a = -0.1149880 - 0.0450683I$ $b = -0.211794 + 1.044400I$	$-1.75492 - 0.21945I$	0
$u = -0.192813 - 1.026250I$ $a = -0.1149880 + 0.0450683I$ $b = -0.211794 - 1.044400I$	$-1.75492 + 0.21945I$	0
$u = -0.967091 + 0.396088I$ $a = -0.07366 + 1.60101I$ $b = 1.82974 + 0.15178I$	$-2.07204 - 13.90080I$	0
$u = -0.967091 - 0.396088I$ $a = -0.07366 - 1.60101I$ $b = 1.82974 - 0.15178I$	$-2.07204 + 13.90080I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.310213+0.900109I$ $a=-1.06413+1.58543I$ $b=\ \ 1.97565-1.89639I$	$-2.43039-4.42948I$	0
$u=-0.310213-0.900109I$ $a=-1.06413-1.58543I$ $b=\ \ 1.97565+1.89639I$	$-2.43039+4.42948I$	0
$u=-0.522391+0.912570I$ $a=-0.575948+0.066149I$ $b=-0.085719+1.120830I$	$-1.95927-0.77778I$	0
$u=-0.522391-0.912570I$ $a=-0.575948-0.066149I$ $b=-0.085719-1.120830I$	$-1.95927+0.77778I$	0
$u=-0.909221+0.259472I$ $a=\ \ 0.123111+0.685530I$ $b=-0.316398+0.008844I$	$2.89929-2.34324I$	0
$u=-0.909221-0.259472I$ $a=\ \ 0.123111-0.685530I$ $b=-0.316398-0.008844I$	$2.89929+2.34324I$	0
$u=\ \ 0.327121+0.886426I$ $a=\ \ 0.21564+2.15420I$ $b=-1.73820-2.40526I$	$2.00818+0.26275I$	0
$u=\ \ 0.327121-0.886426I$ $a=\ \ 0.21564-2.15420I$ $b=-1.73820+2.40526I$	$2.00818-0.26275I$	0
$u=\ \ 0.761910+0.558313I$ $a=-0.99544-1.87431I$ $b=\ \ 1.142060-0.268267I$	$-1.75544+0.37427I$	0
$u=\ \ 0.761910-0.558313I$ $a=-0.99544+1.87431I$ $b=\ \ 1.142060+0.268267I$	$-1.75544-0.37427I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.369426+0.994086I$ $a=-1.96669+1.41932I$ $b=\ \ 2.20930-0.98738I$	$-1.96143+7.05234I$	0
$u=-0.369426-0.994086I$ $a=-1.96669-1.41932I$ $b=\ \ 2.20930+0.98738I$	$-1.96143-7.05234I$	0
$u=-0.231301+0.909026I$ $a=\ \ 0.172950-0.756205I$ $b=\ \ 0.513443-0.335586I$	$4.28323-1.07875I$	0
$u=-0.231301-0.909026I$ $a=\ \ 0.172950+0.756205I$ $b=\ \ 0.513443+0.335586I$	$4.28323+1.07875I$	0
$u=\ \ 0.873648+0.340491I$ $a=-0.346265+0.707821I$ $b=\ \ 0.281624-0.173512I$	$0.13196+8.09309I$	0
$u=\ \ 0.873648-0.340491I$ $a=-0.346265-0.707821I$ $b=\ \ 0.281624+0.173512I$	$0.13196-8.09309I$	0
$u=-0.368759+0.861294I$ $a=-0.21879+3.23453I$ $b=\ \ 2.37621-2.72280I$	$-0.61701+4.67868I$	0
$u=-0.368759-0.861294I$ $a=-0.21879-3.23453I$ $b=\ \ 2.37621+2.72280I$	$-0.61701-4.67868I$	0
$u=\ \ 0.324965+1.012440I$ $a=\ \ 1.44767-0.05934I$ $b=-0.494335+0.177695I$	$4.69177-2.40977I$	0
$u=\ \ 0.324965-1.012440I$ $a=\ \ 1.44767+0.05934I$ $b=-0.494335-0.177695I$	$4.69177+2.40977I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.277751 + 0.894534I$ $a = 0.272369 - 0.204315I$ $b = -1.045410 - 0.821220I$	$3.59555 + 3.72788I$	0
$u = 0.277751 - 0.894534I$ $a = 0.272369 + 0.204315I$ $b = -1.045410 + 0.821220I$	$3.59555 - 3.72788I$	0
$u = 1.015980 + 0.348748I$ $a = -0.03654 + 1.55044I$ $b = -1.73438 + 0.30252I$	$1.04423 + 7.45505I$	0
$u = 1.015980 - 0.348748I$ $a = -0.03654 - 1.55044I$ $b = -1.73438 - 0.30252I$	$1.04423 - 7.45505I$	0
$u = 0.214175 + 1.057270I$ $a = -0.817825 - 1.130120I$ $b = 0.895341 - 0.109395I$	$-0.96779 + 5.37139I$	0
$u = 0.214175 - 1.057270I$ $a = -0.817825 + 1.130120I$ $b = 0.895341 + 0.109395I$	$-0.96779 - 5.37139I$	0
$u = 0.834858 + 0.385886I$ $a = 0.504327 - 1.072800I$ $b = 1.30683 + 0.76592I$	$-5.07291 - 2.27519I$	0
$u = 0.834858 - 0.385886I$ $a = 0.504327 + 1.072800I$ $b = 1.30683 - 0.76592I$	$-5.07291 + 2.27519I$	0
$u = 0.392121 + 1.007210I$ $a = 0.884957 + 1.045460I$ $b = -0.452494 - 1.041260I$	$4.37259 - 6.31285I$	0
$u = 0.392121 - 1.007210I$ $a = 0.884957 - 1.045460I$ $b = -0.452494 + 1.041260I$	$4.37259 + 6.31285I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.763974+0.483070I$ $a=-0.265987-1.249780I$ $b=-1.54989+0.74973I$	$-1.51002-2.90487I$	0
$u=-0.763974-0.483070I$ $a=-0.265987+1.249780I$ $b=-1.54989-0.74973I$	$-1.51002+2.90487I$	0
$u=-0.699502+0.847403I$ $a=-0.73555+1.79135I$ $b=\ \ 2.22784-0.54310I$	$-4.02999+2.67079I$	0
$u=-0.699502-0.847403I$ $a=-0.73555-1.79135I$ $b=\ \ 2.22784+0.54310I$	$-4.02999-2.67079I$	0
$u=-0.702976+0.547108I$ $a=\ \ 1.02977-2.07419I$ $b=-1.314950+0.139898I$	$-6.14075-5.00203I$	0
$u=-0.702976-0.547108I$ $a=\ \ 1.02977+2.07419I$ $b=-1.314950-0.139898I$	$-6.14075+5.00203I$	0
$u=-0.321932+1.061480I$ $a=-0.833564-0.350555I$ $b=-0.0635669+0.0950970I$	$4.76986+5.15135I$	0
$u=-0.321932-1.061480I$ $a=-0.833564+0.350555I$ $b=-0.0635669-0.0950970I$	$4.76986-5.15135I$	0
$u=\ \ 0.683523+0.554488I$ $a=-0.99602-1.73710I$ $b=\ \ 1.73993+0.19544I$	$-0.22944+4.39648I$	0
$u=\ \ 0.683523-0.554488I$ $a=-0.99602+1.73710I$ $b=\ \ 1.73993-0.19544I$	$-0.22944-4.39648I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.411070+1.041850I$ $a=-0.270836+0.721017I$ $b=-0.196903-0.838389I$	$5.49577+3.46244I$	0
$u=-0.411070-1.041850I$ $a=-0.270836-0.721017I$ $b=-0.196903+0.838389I$	$5.49577-3.46244I$	0
$u=-0.685378+0.540273I$ $a=\ \ 0.70519-1.42825I$ $b=-1.65080+0.27536I$	$0.20529-1.95269I$	0
$u=-0.685378-0.540273I$ $a=\ \ 0.70519+1.42825I$ $b=-1.65080-0.27536I$	$0.20529+1.95269I$	0
$u=\ \ 0.519236+1.018860I$ $a=\ \ 0.026199+0.606770I$ $b=\ \ 0.056375+0.196424I$	$1.34667-2.83958I$	0
$u=\ \ 0.519236-1.018860I$ $a=\ \ 0.026199-0.606770I$ $b=\ \ 0.056375-0.196424I$	$1.34667+2.83958I$	0
$u=\ \ 0.631143+0.576314I$ $a=-0.77796-2.45089I$ $b=\ \ 2.16384+0.11659I$	$1.24304+1.23867I$	0
$u=\ \ 0.631143-0.576314I$ $a=-0.77796+2.45089I$ $b=\ \ 2.16384-0.11659I$	$1.24304-1.23867I$	0
$u=\ \ 0.730028+0.426011I$ $a=\ \ 0.46514-1.41810I$ $b=\ \ 1.62643+0.90017I$	$-5.43928+7.39195I$	0
$u=\ \ 0.730028-0.426011I$ $a=\ \ 0.46514+1.41810I$ $b=\ \ 1.62643-0.90017I$	$-5.43928-7.39195I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.477199 + 1.051930I$ $a = -0.503885 + 0.648213I$ $b = 0.894322 - 0.618879I$	$3.70748 - 0.15166I$	0
$u = 0.477199 - 1.051930I$ $a = -0.503885 - 0.648213I$ $b = 0.894322 + 0.618879I$	$3.70748 + 0.15166I$	0
$u = -0.716845 + 0.444011I$ $a = 0.63771 - 1.97825I$ $b = -0.602540 + 0.140499I$	$-5.59556 + 5.07298I$	0
$u = -0.716845 - 0.444011I$ $a = 0.63771 + 1.97825I$ $b = -0.602540 - 0.140499I$	$-5.59556 - 5.07298I$	0
$u = -0.807265 + 0.242487I$ $a = 0.22546 + 1.85523I$ $b = 1.257880 - 0.118049I$	$-5.93107 - 3.05587I$	0
$u = -0.807265 - 0.242487I$ $a = 0.22546 - 1.85523I$ $b = 1.257880 + 0.118049I$	$-5.93107 + 3.05587I$	0
$u = -0.439023 + 1.071930I$ $a = 0.168515 + 0.509331I$ $b = -0.544178 - 0.663350I$	$5.25817 + 3.39113I$	0
$u = -0.439023 - 1.071930I$ $a = 0.168515 - 0.509331I$ $b = -0.544178 + 0.663350I$	$5.25817 - 3.39113I$	0
$u = -0.557443 + 1.020580I$ $a = -0.158651 + 0.981541I$ $b = 0.455205 - 0.018837I$	$-1.80516 + 7.01140I$	0
$u = -0.557443 - 1.020580I$ $a = -0.158651 - 0.981541I$ $b = 0.455205 + 0.018837I$	$-1.80516 - 7.01140I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.577409 + 1.025130I$ $a = -1.23261 - 2.41380I$ $b = 3.25283 + 1.24785I$	$2.60603 - 6.01858I$	0
$u = 0.577409 - 1.025130I$ $a = -1.23261 + 2.41380I$ $b = 3.25283 - 1.24785I$	$2.60603 + 6.01858I$	0
$u = -0.626104 + 0.534752I$ $a = 0.0056920 - 0.0550585I$ $b = 0.722902 + 0.343109I$	$-3.23822 - 2.34344I$	0
$u = -0.626104 - 0.534752I$ $a = 0.0056920 + 0.0550585I$ $b = 0.722902 - 0.343109I$	$-3.23822 + 2.34344I$	0
$u = -0.625453 + 0.519765I$ $a = 0.16231 - 2.25984I$ $b = -2.07324 + 0.50021I$	$0.86345 - 4.89693I$	0
$u = -0.625453 - 0.519765I$ $a = 0.16231 + 2.25984I$ $b = -2.07324 - 0.50021I$	$0.86345 + 4.89693I$	0
$u = -0.572499 + 1.042580I$ $a = 1.67007 - 2.15788I$ $b = -3.19405 + 0.62334I$	$2.41575 + 9.65210I$	0
$u = -0.572499 - 1.042580I$ $a = 1.67007 + 2.15788I$ $b = -3.19405 - 0.62334I$	$2.41575 - 9.65210I$	0
$u = 0.595624 + 1.031600I$ $a = -1.16682 - 1.91428I$ $b = 2.50507 + 1.26030I$	$1.19711 - 9.36105I$	0
$u = 0.595624 - 1.031600I$ $a = -1.16682 + 1.91428I$ $b = 2.50507 - 1.26030I$	$1.19711 + 9.36105I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.593322+1.034280I$ $a=\ \ 0.92240-1.48547I$ $b=-2.48652+1.39183I$	$-4.67986+9.99352I$	0
$u=-0.593322-1.034280I$ $a=\ \ 0.92240+1.48547I$ $b=-2.48652-1.39183I$	$-4.67986-9.99352I$	0
$u=-0.598676+1.039030I$ $a=\ \ 1.18922-1.79510I$ $b=-2.27709+0.95338I$	$1.68875+6.93868I$	0
$u=-0.598676-1.039030I$ $a=\ \ 1.18922+1.79510I$ $b=-2.27709-0.95338I$	$1.68875-6.93868I$	0
$u=\ \ 0.610139+1.033340I$ $a=-0.50259-1.54405I$ $b=\ \ 2.35284+1.62725I$	$-0.32346-5.55789I$	0
$u=\ \ 0.610139-1.033340I$ $a=-0.50259+1.54405I$ $b=\ \ 2.35284-1.62725I$	$-0.32346+5.55789I$	0
$u=\ \ 0.695051+0.983936I$ $a=\ \ 1.07951+1.32265I$ $b=-2.44418-0.32764I$	$-7.10538-5.12757I$	0
$u=\ \ 0.695051-0.983936I$ $a=\ \ 1.07951-1.32265I$ $b=-2.44418+0.32764I$	$-7.10538+5.12757I$	0
$u=\ \ 0.522378+1.089810I$ $a=-0.667224+0.732118I$ $b=\ \ 0.477953-0.724821I$	$3.26152-4.43525I$	0
$u=\ \ 0.522378-1.089810I$ $a=-0.667224-0.732118I$ $b=\ \ 0.477953+0.724821I$	$3.26152+4.43525I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.450080 + 0.634804I$ $a = -0.490028 - 0.317649I$ $b = -0.215712 + 0.122955I$	$-0.030131 - 1.277460I$	0
$u = 0.450080 - 0.634804I$ $a = -0.490028 + 0.317649I$ $b = -0.215712 - 0.122955I$	$-0.030131 + 1.277460I$	0
$u = 0.985195 + 0.723490I$ $a = 0.25473 + 1.55530I$ $b = -1.59947 + 0.05949I$	$-4.15642 - 8.44858I$	0
$u = 0.985195 - 0.723490I$ $a = 0.25473 - 1.55530I$ $b = -1.59947 - 0.05949I$	$-4.15642 + 8.44858I$	0
$u = -0.874131 + 0.866056I$ $a = -0.252868 + 1.194610I$ $b = 2.19417 - 0.29826I$	$-3.01919 + 4.59139I$	0
$u = -0.874131 - 0.866056I$ $a = -0.252868 - 1.194610I$ $b = 2.19417 + 0.29826I$	$-3.01919 - 4.59139I$	0
$u = 0.281693 + 1.200670I$ $a = -0.412752 - 0.605345I$ $b = 0.880298 - 0.251427I$	$-0.07942 - 5.37671I$	0
$u = 0.281693 - 1.200670I$ $a = -0.412752 + 0.605345I$ $b = 0.880298 + 0.251427I$	$-0.07942 + 5.37671I$	0
$u = -0.605742 + 1.076930I$ $a = 1.59470 - 1.28539I$ $b = -2.29188 - 0.06672I$	$0.27308 + 8.09103I$	0
$u = -0.605742 - 1.076930I$ $a = 1.59470 + 1.28539I$ $b = -2.29188 + 0.06672I$	$0.27308 - 8.09103I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.520380+1.121920I$ $a=\ \ 0.955421+0.480931I$ $b=-0.812013-0.820838I$	$3.38361+2.22304I$	0
$u=-0.520380-1.121920I$ $a=\ \ 0.955421-0.480931I$ $b=-0.812013+0.820838I$	$3.38361-2.22304I$	0
$u=\ \ 0.585855+1.090390I$ $a=-1.91646-1.21893I$ $b=\ \ 2.53111-0.33787I$	$-3.47988-12.42280I$	0
$u=\ \ 0.585855-1.090390I$ $a=-1.91646+1.21893I$ $b=\ \ 2.53111+0.33787I$	$-3.47988+12.42280I$	0
$u=-0.704138+0.290929I$ $a=-0.757040-0.812459I$ $b=-0.176420+0.892429I$	$0.94200+2.44909I$	0
$u=-0.704138-0.290929I$ $a=-0.757040+0.812459I$ $b=-0.176420-0.892429I$	$0.94200-2.44909I$	0
$u=-0.606842+1.088630I$ $a=\ \ 0.384191-0.926406I$ $b=-1.91223+1.42145I$	$-3.68759+0.00634I$	0
$u=-0.606842-1.088630I$ $a=\ \ 0.384191+0.926406I$ $b=-1.91223-1.42145I$	$-3.68759-0.00634I$	0
$u=\ \ 0.510897+1.138500I$ $a=-0.303510-0.600633I$ $b=\ \ 0.291658+0.208675I$	$-0.00303-3.85262I$	0
$u=\ \ 0.510897-1.138500I$ $a=-0.303510+0.600633I$ $b=\ \ 0.291658-0.208675I$	$-0.00303+3.85262I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.654555 + 0.332436I$ $a = 0.591153 - 0.783342I$ $b = -0.135768 + 0.815860I$	$1.075190 - 0.122962I$	0
$u = 0.654555 - 0.332436I$ $a = 0.591153 + 0.783342I$ $b = -0.135768 - 0.815860I$	$1.075190 + 0.122962I$	0
$u = 0.655003 + 0.318049I$ $a = -0.284407 + 0.105268I$ $b = 0.591088 + 0.006799I$	$-2.42606 - 0.70127I$	0
$u = 0.655003 - 0.318049I$ $a = -0.284407 - 0.105268I$ $b = 0.591088 - 0.006799I$	$-2.42606 + 0.70127I$	0
$u = -0.910786 + 0.891962I$ $a = -0.48384 + 1.60604I$ $b = 2.16993 - 0.00669I$	$-2.96834 + 1.90597I$	0
$u = -0.910786 - 0.891962I$ $a = -0.48384 - 1.60604I$ $b = 2.16993 + 0.00669I$	$-2.96834 - 1.90597I$	0
$u = 0.176825 + 1.271730I$ $a = -0.857305 - 0.471239I$ $b = 0.732823 + 0.974096I$	$5.56436 + 4.82435I$	0
$u = 0.176825 - 1.271730I$ $a = -0.857305 + 0.471239I$ $b = 0.732823 - 0.974096I$	$5.56436 - 4.82435I$	0
$u = 0.634061 + 1.125180I$ $a = -1.45622 - 0.86675I$ $b = 2.00233 - 0.38221I$	$-2.89210 - 3.18493I$	0
$u = 0.634061 - 1.125180I$ $a = -1.45622 + 0.86675I$ $b = 2.00233 + 0.38221I$	$-2.89210 + 3.18493I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.609232 + 1.156980I$ $a = 0.226479 - 0.590302I$ $b = -0.417868 + 0.431707I$	$2.57819 - 13.54640I$	0
$u = 0.609232 - 1.156980I$ $a = 0.226479 + 0.590302I$ $b = -0.417868 - 0.431707I$	$2.57819 + 13.54640I$	0
$u = -0.597251 + 1.185190I$ $a = -0.115502 - 0.444116I$ $b = 0.368514 + 0.158468I$	$5.65845 + 7.80630I$	0
$u = -0.597251 - 1.185190I$ $a = -0.115502 + 0.444116I$ $b = 0.368514 - 0.158468I$	$5.65845 - 7.80630I$	0
$u = -0.546174 + 1.224470I$ $a = -1.50124 + 1.29771I$ $b = 3.05551 - 0.68186I$	$-2.96174 + 8.13583I$	0
$u = -0.546174 - 1.224470I$ $a = -1.50124 - 1.29771I$ $b = 3.05551 + 0.68186I$	$-2.96174 - 8.13583I$	0
$u = -0.657062 + 1.177770I$ $a = -1.36747 + 1.58923I$ $b = 3.06183 - 0.58267I$	$0.3293 + 19.8011I$	0
$u = -0.657062 - 1.177770I$ $a = -1.36747 - 1.58923I$ $b = 3.06183 + 0.58267I$	$0.3293 - 19.8011I$	0
$u = -0.100808 + 1.351960I$ $a = -0.533792 - 0.214465I$ $b = 0.23273 + 1.57802I$	$4.23693 - 10.48220I$	0
$u = -0.100808 - 1.351960I$ $a = -0.533792 + 0.214465I$ $b = 0.23273 - 1.57802I$	$4.23693 + 10.48220I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.881084 + 1.036760I$ $a = 0.438040 + 0.883985I$ $b = -2.20326 - 0.37361I$	$-3.23204 + 1.72984I$	0
$u = 0.881084 - 1.036760I$ $a = 0.438040 - 0.883985I$ $b = -2.20326 + 0.37361I$	$-3.23204 - 1.72984I$	0
$u = 0.658091 + 1.205700I$ $a = 1.31663 + 1.50523I$ $b = -3.07784 - 0.56855I$	$3.67860 - 13.47280I$	0
$u = 0.658091 - 1.205700I$ $a = 1.31663 - 1.50523I$ $b = -3.07784 + 0.56855I$	$3.67860 + 13.47280I$	0
$u = -0.253746 + 1.376080I$ $a = 0.788847 - 0.488417I$ $b = -1.11170 + 1.02007I$	$8.25173 + 1.72796I$	0
$u = -0.253746 - 1.376080I$ $a = 0.788847 + 0.488417I$ $b = -1.11170 - 1.02007I$	$8.25173 - 1.72796I$	0
$u = 0.510191 + 0.275897I$ $a = 1.02470 - 1.69924I$ $b = -0.160387 + 0.570498I$	$1.61176 - 3.82565I$	$0.67831 + 6.25245I$
$u = 0.510191 - 0.275897I$ $a = 1.02470 + 1.69924I$ $b = -0.160387 - 0.570498I$	$1.61176 + 3.82565I$	$0.67831 - 6.25245I$
$u = -0.546569 + 0.128274I$ $a = -1.49865 - 0.80037I$ $b = 0.075574 + 0.289173I$	$2.70783 + 0.36374I$	$3.83104 + 1.53290I$
$u = -0.546569 - 0.128274I$ $a = -1.49865 + 0.80037I$ $b = 0.075574 - 0.289173I$	$2.70783 - 0.36374I$	$3.83104 - 1.53290I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.18825 + 1.46944I$ $a = \ 0.454513 - 0.375637I$ $b = -0.15234 + 2.01768I$	$7.36728 + 3.23128I$	0
$u = \ 0.18825 - 1.46944I$ $a = \ 0.454513 + 0.375637I$ $b = -0.15234 - 2.01768I$	$7.36728 - 3.23128I$	0
$u = \ 0.02911 + 1.48434I$ $a = \ 1.168710 + 0.198616I$ $b = -2.23509 - 1.22613I$	$5.52859 - 1.48937I$	0
$u = \ 0.02911 - 1.48434I$ $a = \ 1.168710 - 0.198616I$ $b = -2.23509 + 1.22613I$	$5.52859 + 1.48937I$	0
$u = \ 0.382604 + 0.286600I$ $a = -0.729730 - 0.769814I$ $b = -0.245728 + 0.455420I$	$-0.184437 - 1.162580I$	$-3.08681 + 5.07810I$
$u = \ 0.382604 - 0.286600I$ $a = -0.729730 + 0.769814I$ $b = -0.245728 - 0.455420I$	$-0.184437 + 1.162580I$	$-3.08681 - 5.07810I$

II. $I_2^u = \langle -7283u^{37} + 6235u^{36} + \cdots + 995b - 2491,\ 3092u^{37} - 2046u^{36} + \cdots + 995a + 12148,\ u^{38} + 12u^{36} + \cdots + 2u + 1 \rangle$

(i) Arc colorings

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_2 = \begin{pmatrix} -3.10754u^{37} + 2.05628u^{36} + \cdots - 17.0472u - 12.2090 \\ 7.31960u^{37} - 6.26633u^{36} + \cdots + 11.9628u + 2.50352 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -2.07437u^{37} - 2.67136u^{36} + \cdots - 4.07940u - 7.64925 \\ 8.25930u^{37} + 1.98392u^{36} + \cdots + 20.3849u + 7.23116 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 7.86734u^{37} + 1.91055u^{36} + \cdots + 41.1286u - 1.23920 \\ 0.215075u^{37} + 7.88744u^{36} + \cdots + 6.09447u + 9.41809 \end{pmatrix}$$

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

$$a_{12} = \begin{pmatrix} 15.1417u^{37} + 2.78191u^{36} + \cdots - 5.59196u - 4.98995 \\ 1.24623u^{37} - 5.77186u^{36} + \cdots - 15.7236u - 6.30452 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 16.1417u^{37} + 2.78191u^{36} + \cdots - 5.59196u - 4.98995 \\ 0.246231u^{37} - 5.77186u^{36} + \cdots - 17.7236u - 6.30452 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -12.1759u^{37} + 9.97990u^{36} + \cdots + 65.2312u + 31.7889 \\ 7.32864u^{37} + 9.02613u^{36} + \cdots + 23.4995u + 4.87437 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u^3 \\ u^3 + u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -2.94573u^{37} - 1.24523u^{36} + \cdots + 21.2201u + 5.22513 \\ 7.80402u^{37} + 5.46332u^{36} + \cdots + 15.3719u + 5.76482 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{311}{995}u^{37} + \frac{33803}{995}u^{36} + \cdots + \frac{120606}{995}u + \frac{13535}{199}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{38} - 19u^{37} + \cdots - 23u + 1$
c_2	$u^{38} - u^{37} + \cdots - u + 1$
c_3	$u^{38} - 8u^{36} + \cdots - 2u + 1$
c_4	$u^{38} + 7u^{37} + \cdots + 7u + 1$
c_5	$u^{38} + 12u^{36} + \cdots + 2u + 1$
c_6	$u^{38} + u^{37} + \cdots + u + 1$
c_7	$u^{38} - 2u^{37} + \cdots - 14u^2 + 1$
c_8	$u^{38} - 8u^{36} + \cdots + 2u + 1$
c_9	$u^{38} + 24u^{37} + \cdots + 26u + 1$
c_{10}	$u^{38} + 12u^{36} + \cdots - 2u + 1$
c_{11}	$u^{38} + 2u^{37} + \cdots - 14u^2 + 1$
c_{12}	$u^{38} - 2u^{37} + \cdots + 10u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{38} + 19y^{37} + \cdots + 3y + 1$
c_2, c_6	$y^{38} + 19y^{37} + \cdots + 23y + 1$
c_3, c_8	$y^{38} - 16y^{37} + \cdots - 32y + 1$
c_4	$y^{38} - y^{37} + \cdots + 19y + 1$
c_5, c_{10}	$y^{38} + 24y^{37} + \cdots + 26y + 1$
c_7, c_{11}	$y^{38} - 34y^{37} + \cdots - 28y + 1$
c_9	$y^{38} - 32y^{36} + \cdots - 38y + 1$
c_{12}	$y^{38} - 2y^{37} + \cdots - 40y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.346633 + 0.913206I$ $a = -0.239791 - 0.510182I$ $b = -0.424762 - 0.773960I$	$3.48133 + 3.00418I$	$-0.07411 + 2.12856I$
$u = 0.346633 - 0.913206I$ $a = -0.239791 + 0.510182I$ $b = -0.424762 + 0.773960I$	$3.48133 - 3.00418I$	$-0.07411 - 2.12856I$
$u = 0.301513 + 0.914943I$ $a = 0.732917 + 0.423678I$ $b = 0.102967 - 0.753120I$	$3.41062 - 5.71924I$	$-0.72914 + 7.89995I$
$u = 0.301513 - 0.914943I$ $a = 0.732917 - 0.423678I$ $b = 0.102967 + 0.753120I$	$3.41062 + 5.71924I$	$-0.72914 - 7.89995I$
$u = -0.733903 + 0.761750I$ $a = -0.86783 + 1.25552I$ $b = 1.168020 - 0.189941I$	$-5.11553 + 6.68417I$	$-4.19613 - 6.96120I$
$u = -0.733903 - 0.761750I$ $a = -0.86783 - 1.25552I$ $b = 1.168020 + 0.189941I$	$-5.11553 - 6.68417I$	$-4.19613 + 6.96120I$
$u = 0.692411 + 0.628096I$ $a = -0.76820 - 1.59903I$ $b = 1.95207 + 0.24126I$	$0.41456 + 3.20402I$	$-0.72082 - 2.63545I$
$u = 0.692411 - 0.628096I$ $a = -0.76820 + 1.59903I$ $b = 1.95207 - 0.24126I$	$0.41456 - 3.20402I$	$-0.72082 + 2.63545I$
$u = -0.405760 + 1.013140I$ $a = -0.604304 + 0.119948I$ $b = -0.229560 - 0.210902I$	$4.55898 + 3.61942I$	$1.30393 - 4.94313I$
$u = -0.405760 - 1.013140I$ $a = -0.604304 - 0.119948I$ $b = -0.229560 + 0.210902I$	$4.55898 - 3.61942I$	$1.30393 + 4.94313I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.316501 + 1.083920I$ $a = 0.20343 + 1.52675I$ $b = -1.000670 - 0.920320I$	$0.71744 - 4.93871I$	$5.28229 + 3.82588I$
$u = 0.316501 - 1.083920I$ $a = 0.20343 - 1.52675I$ $b = -1.000670 + 0.920320I$	$0.71744 + 4.93871I$	$5.28229 - 3.82588I$
$u = 0.784167 + 0.841255I$ $a = -0.13311 + 1.69915I$ $b = -2.40917 - 1.11192I$	$-3.74428 - 4.78087I$	$-8.45889 + 5.85278I$
$u = 0.784167 - 0.841255I$ $a = -0.13311 - 1.69915I$ $b = -2.40917 + 1.11192I$	$-3.74428 + 4.78087I$	$-8.45889 - 5.85278I$
$u = -0.270191 + 0.786977I$ $a = 0.830494 - 0.598475I$ $b = 0.131868 - 0.840401I$	$3.51053 - 0.69885I$	$-2.05567 - 2.41427I$
$u = -0.270191 - 0.786977I$ $a = 0.830494 + 0.598475I$ $b = 0.131868 + 0.840401I$	$3.51053 + 0.69885I$	$-2.05567 + 2.41427I$
$u = 0.602124 + 1.003030I$ $a = -1.20083 - 2.04407I$ $b = 2.52189 + 0.99851I$	$1.55396 - 8.20858I$	$0. + 7.20942I$
$u = 0.602124 - 1.003030I$ $a = -1.20083 + 2.04407I$ $b = 2.52189 - 0.99851I$	$1.55396 + 8.20858I$	$0. - 7.20942I$
$u = -0.439660 + 1.095730I$ $a = 1.81719 - 1.68910I$ $b = -3.01576 + 1.14116I$	$-1.76589 + 8.07111I$	$1.68233 - 10.53606I$
$u = -0.439660 - 1.095730I$ $a = 1.81719 + 1.68910I$ $b = -3.01576 - 1.14116I$	$-1.76589 - 8.07111I$	$1.68233 + 10.53606I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.503608+1.077910I$ $a=\ \ 0.954334+0.352535I$ $b=-1.001150-0.857931I$	$3.76237+2.98497I$	$3.83010-4.26044I$
$u=-0.503608-1.077910I$ $a=\ \ 0.954334-0.352535I$ $b=-1.001150+0.857931I$	$3.76237-2.98497I$	$3.83010+4.26044I$
$u=\ \ 0.228552+0.738188I$ $a=\ \ 2.50537-0.49257I$ $b=-1.21116+1.68755I$	$-0.66638+2.56401I$	$-1.12291-4.70623I$
$u=\ \ 0.228552-0.738188I$ $a=\ \ 2.50537+0.49257I$ $b=-1.21116-1.68755I$	$-0.66638-2.56401I$	$-1.12291+4.70623I$
$u=\ \ 0.812457+0.921922I$ $a=\ \ 1.03497+1.43564I$ $b=-2.11344+0.45923I$	$-3.50761-1.19591I$	$-6.34432-2.08353I$
$u=\ \ 0.812457-0.921922I$ $a=\ \ 1.03497-1.43564I$ $b=-2.11344-0.45923I$	$-3.50761+1.19591I$	$-6.34432+2.08353I$
$u=-0.355743+0.679655I$ $a=\ \ 1.60153-2.39187I$ $b=-2.02823+1.25785I$	$-3.33747-4.69234I$	$-6.27818+4.28854I$
$u=-0.355743-0.679655I$ $a=\ \ 1.60153+2.39187I$ $b=-2.02823-1.25785I$	$-3.33747+4.69234I$	$-6.27818-4.28854I$
$u=-0.759379+0.994661I$ $a=-0.160025+0.962962I$ $b=\ \ 1.80915-1.19487I$	$-4.40408-0.99838I$	$-7.00268+0.I$
$u=-0.759379-0.994661I$ $a=-0.160025-0.962962I$ $b=\ \ 1.80915+1.19487I$	$-4.40408+0.99838I$	$-7.00268+0.I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.587859+0.355353I$ $a=-1.03266-1.18007I$ $b=-0.208703+0.879426I$	$1.69614+1.35708I$	$0.61288-2.76121I$
$u=-0.587859-0.355353I$ $a=-1.03266+1.18007I$ $b=-0.208703-0.879426I$	$1.69614-1.35708I$	$0.61288+2.76121I$
$u=0.008225+1.396310I$ $a=-0.581533+0.388919I$ $b=0.49580-1.64255I$	$7.31275+2.46224I$	0
$u=0.008225-1.396310I$ $a=-0.581533-0.388919I$ $b=0.49580+1.64255I$	$7.31275-2.46224I$	0
$u=0.02154+1.45038I$ $a=-1.265650-0.113040I$ $b=2.31036+1.03438I$	$5.64774-1.52204I$	0
$u=0.02154-1.45038I$ $a=-1.265650+0.113040I$ $b=2.31036-1.03438I$	$5.64774+1.52204I$	0
$u=-0.058020+0.433386I$ $a=-2.32631-2.17616I$ $b=0.65045+1.35245I$	$1.27923+1.49890I$	$1.46933-3.64562I$
$u=-0.058020-0.433386I$ $a=-2.32631+2.17616I$ $b=0.65045-1.35245I$	$1.27923-1.49890I$	$1.46933+3.64562I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{38}-19u^{37}+\cdots-23u+1)$ $\cdot(u^{156}+68u^{155}+\cdots+586213058u+32137561)$
c_2	$(u^{38}-u^{37}+\cdots-u+1)(u^{156}-2u^{155}+\cdots-17042u+5669)$
c_3	$(u^{38}-8u^{36}+\cdots-2u+1)(u^{156}-u^{155}+\cdots+6147u+2449)$
c_4	$(u^{38}+7u^{37}+\cdots+7u+1)(u^{156}-4u^{155}+\cdots-513066u+23269)$
c_5	$(u^{38}+12u^{36}+\cdots+2u+1)(u^{156}-u^{155}+\cdots+643u+751)$
c_6	$(u^{38}+u^{37}+\cdots+u+1)(u^{156}-2u^{155}+\cdots-17042u+5669)$
c_7	$(u^{38}-2u^{37}+\cdots-14u^2+1)(u^{156}-3u^{155}+\cdots+107845u+85523)$
c_8	$(u^{38}-8u^{36}+\cdots+2u+1)(u^{156}-u^{155}+\cdots+6147u+2449)$
c_9	$(u^{38}+24u^{37}+\cdots+26u+1)$ $\cdot(u^{156}-77u^{155}+\cdots-10171145u+564001)$
c_{10}	$(u^{38}+12u^{36}+\cdots-2u+1)(u^{156}-u^{155}+\cdots+643u+751)$
c_{11}	$(u^{38}+2u^{37}+\cdots-14u^2+1)(u^{156}-3u^{155}+\cdots+107845u+85523)$
c_{12}	$(u^{38}-2u^{37}+\cdots+10u+1)(u^{156}+9u^{155}+\cdots-1045u+521)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{38}+19y^{37}+\cdots+3y+1)$ $\cdot(y^{156}+60y^{155}+\cdots+29158613325391790y+1032822827028721)$
c_2, c_6	$(y^{38}+19y^{37}+\cdots+23y+1)$ $\cdot(y^{156}+68y^{155}+\cdots+586213058y+32137561)$
c_3, c_8	$(y^{38}-16y^{37}+\cdots-32y+1)$ $\cdot(y^{156}-83y^{155}+\cdots-131376593y+5997601)$
c_4	$(y^{38}-y^{37}+\cdots+19y+1)$ $\cdot(y^{156}-20y^{155}+\cdots-25116154598y+541446361)$
c_5, c_{10}	$(y^{38}+24y^{37}+\cdots+26y+1)$ $\cdot(y^{156}+77y^{155}+\cdots+10171145y+564001)$
c_7, c_{11}	$(y^{38}-34y^{37}+\cdots-28y+1)$ $\cdot(y^{156}-105y^{155}+\cdots+830770663883y+7314183529)$
c_9	$(y^{38}-32y^{36}+\cdots-38y+1)$ $\cdot(y^{156}+25y^{155}+\cdots+20263498622645y+318097128001)$
c_{12}	$(y^{38}-2y^{37}+\cdots-40y+1)$ $\cdot(y^{156}+11y^{155}+\cdots+19725051y+271441)$