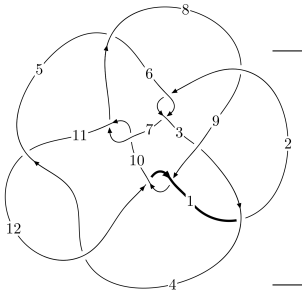
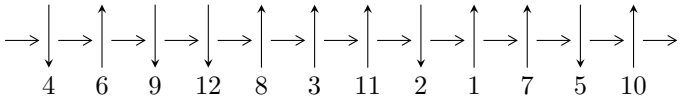
$12a_{0933}$ $(K12a_{0933})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & 7.45874 \times 10^{1495} u^{151} + 1.33532 \times 10^{1497} u^{150} + \cdots + 3.64559 \times 10^{1494} b + 4.30408 \times 10^{1496}, \\ & - 5.52856 \times 10^{1496} u^{151} - 9.82856 \times 10^{1497} u^{150} + \cdots + 3.64559 \times 10^{1494} a - 1.60537 \times 10^{1497}, \\ & u^{152} + 18 u^{151} + \cdots + 39 u + 1 \rangle \\ I_2^u = \langle & 2.35650 \times 10^{100} u^{38} - 3.38206 \times 10^{100} u^{37} + \cdots + 3.27749 \times 10^{101} b + 1.72182 \times 10^{102}, \\ & 9.76286 \times 10^{101} u^{38} - 8.69104 \times 10^{101} u^{37} + \cdots + 3.27749 \times 10^{101} a + 9.71584 \times 10^{102}, \ u^{39} - u^{38} + \cdots + 28 u \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 191 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. $\boldsymbol{I_1^u = \langle 7.46 \times 10^{1495} u^{151} + 1.34 \times 10^{1497} u^{150} + \cdots + 3.65 \times 10^{1494} b + 4.30 \times 10^{1496},\ -5.53 \times 10^{1496} u^{151} - 9.83 \times 10^{1497} u^{150} + \cdots + 3.65 \times 10^{1494} a - 1.61 \times 10^{1497},\ u^{152} + 18 u^{151} + \cdots + 39u + 1 \rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 151.651u^{151} + 2696.01u^{150} + \cdots + 17353.5u + 440.358 \\ -20.4596u^{151} - 366.282u^{150} + \cdots - 4076.80u - 118.063 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 172.110u^{151} + 3062.29u^{150} + \cdots + 21430.3u + 558.421 \\ -20.4596u^{151} - 366.282u^{150} + \cdots - 4076.80u - 118.063 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 319.100u^{151} + 5726.02u^{150} + \cdots + 85918.0u + 2583.86 \\ -11.0235u^{151} - 194.799u^{150} + \cdots - 924.820u - 30.9225 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 146.852u^{151} + 2609.75u^{150} + \cdots + 16133.8u + 404.669 \\ -19.8946u^{151} - 356.472u^{150} + \cdots - 4133.32u - 120.159 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -3.32451u^{151} - 57.0384u^{150} + \cdots + 6814.87u + 268.841 \\ -34.2470u^{151} - 602.620u^{150} + \cdots - 849.480u - 12.3166 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 157.788u^{151} + 2843.03u^{150} + \cdots + 54408.2u + 1659.71 \\ 36.0042u^{151} + 647.930u^{150} + \cdots + 7325.33u + 201.311 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 60.6871u^{151} + 1097.66u^{150} + \cdots + 31667.6u + 1035.03 \\ -2.47249u^{151} - 46.0628u^{150} + \cdots - 1190.55u - 36.7659 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 679.004u^{151} + 12120.8u^{150} + \cdots + 112833.u + 3113.90 \\ 25.1544u^{151} + 447.720u^{150} + \cdots + 877.076u - 0.217198 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -676.104u^{151} - 12070.4u^{150} + \cdots - 113192.u - 3126.36 \\ -10.1138u^{151} - 181.931u^{150} + \cdots - 69.6124u + 18.2014 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 320.886u^{151} + 5727.00u^{150} + \cdots + 47503.8u + 1336.04$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{152} - 18u^{151} + \cdots - 39u + 1$
c_2, c_6	$u^{152} - 3u^{151} + \cdots + 225401u - 8611$
c_3	$u^{152} - u^{151} + \cdots - 15926u - 2857$
c_4, c_{11}	$u^{152} + 2u^{151} + \cdots - 7903029u + 617167$
c_5	$u^{152} + 5u^{151} + \cdots + 305455361572u + 24617683931$
c_7, c_{10}	$u^{152} + 6u^{151} + \cdots - 4623182u + 1967081$
c_8	$u^{152} + 3u^{151} + \cdots + 438574749u - 20742433$
c_9, c_{12}	$u^{152} + 9u^{151} + \cdots - 369447u + 44911$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{152}+56y^{151}+\cdots+23y+1$
c_2, c_6	$y^{152}-101y^{151}+\cdots-16415773991y+74149321$
c_3	$y^{152}-39y^{151}+\cdots-753263922y+8162449$
c_4, c_{11}	$y^{152}+124y^{151}+\cdots-8121102240761y+380895105889$
c_5	$y^{152}-63y^{151}+\cdots-2.20\times10^{22}y+6.06\times10^{20}$
c_7, c_{10}	$y^{152}-96y^{151}+\cdots-110104889750638y+3869407660561$
c_8	$y^{152}+29y^{151}+\cdots+22531234880768715y+430248526759489$
c_9, c_{12}	$y^{152}+79y^{151}+\cdots-258835027171y+2016997921$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.935275+0.382584I$ $a=\ \ 0.08390+1.52785I$ $b=\ \ 0.65486+1.28889I$	$1.99484+7.85089I$	0
$u=-0.935275-0.382584I$ $a=\ \ 0.08390-1.52785I$ $b=\ \ 0.65486-1.28889I$	$1.99484-7.85089I$	0
$u=-0.233837+0.951544I$ $a=\ \ 0.84492+1.22874I$ $b=\ \ 0.011769-0.796786I$	$5.20569+4.08312I$	0
$u=-0.233837-0.951544I$ $a=\ \ 0.84492-1.22874I$ $b=\ \ 0.011769+0.796786I$	$5.20569-4.08312I$	0
$u=-0.281681+0.898653I$ $a=-1.43264-1.13703I$ $b=\ \ 0.171388+1.015400I$	$6.18918+3.73765I$	0
$u=-0.281681-0.898653I$ $a=-1.43264+1.13703I$ $b=\ \ 0.171388-1.015400I$	$6.18918-3.73765I$	0
$u=-0.679834+0.648725I$ $a=\ \ 0.204352-0.815495I$ $b=-0.553882+0.286722I$	$6.54096-3.13281I$	0
$u=-0.679834-0.648725I$ $a=\ \ 0.204352+0.815495I$ $b=-0.553882-0.286722I$	$6.54096+3.13281I$	0
$u=-0.916063+0.201408I$ $a=-0.470095+1.330040I$ $b=\ \ 0.141253+1.252060I$	$-3.67199-2.16904I$	0
$u=-0.916063-0.201408I$ $a=-0.470095-1.330040I$ $b=\ \ 0.141253-1.252060I$	$-3.67199+2.16904I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.370334 + 0.995863I$ $a = -0.073221 - 0.365053I$ $b = -0.948877 + 0.133965I$	$3.19199 - 2.62186I$	0
$u = 0.370334 - 0.995863I$ $a = -0.073221 + 0.365053I$ $b = -0.948877 - 0.133965I$	$3.19199 + 2.62186I$	0
$u = 0.160558 + 1.079900I$ $a = 0.185601 + 0.556425I$ $b = 0.766670 - 0.185969I$	$6.41663 + 2.23215I$	0
$u = 0.160558 - 1.079900I$ $a = 0.185601 - 0.556425I$ $b = 0.766670 + 0.185969I$	$6.41663 - 2.23215I$	0
$u = -0.721807 + 0.549581I$ $a = -0.489303 - 0.074539I$ $b = 0.659359 - 0.257865I$	$1.42163 + 4.80254I$	0
$u = -0.721807 - 0.549581I$ $a = -0.489303 + 0.074539I$ $b = 0.659359 + 0.257865I$	$1.42163 - 4.80254I$	0
$u = 0.811230 + 0.754642I$ $a = 0.466320 + 0.975953I$ $b = -0.52368 + 1.41851I$	$-1.90553 - 6.31711I$	0
$u = 0.811230 - 0.754642I$ $a = 0.466320 - 0.975953I$ $b = -0.52368 - 1.41851I$	$-1.90553 + 6.31711I$	0
$u = 1.058100 + 0.348509I$ $a = -0.608381 - 0.934220I$ $b = 0.341759 - 1.058760I$	$-3.68720 - 1.29648I$	0
$u = 1.058100 - 0.348509I$ $a = -0.608381 + 0.934220I$ $b = 0.341759 + 1.058760I$	$-3.68720 + 1.29648I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.644387+0.911067I$ $a=\ \ 0.191002-0.267681I$ $b=\ \ 1.375100-0.141524I$	$11.0260+13.0923I$	0
$u=-0.644387-0.911067I$ $a=\ \ 0.191002+0.267681I$ $b=\ \ 1.375100+0.141524I$	$11.0260-13.0923I$	0
$u=\ \ 0.854784+0.724708I$ $a=\ \ 0.168650+0.435813I$ $b=-0.546254+0.152476I$	$1.84334-2.87370I$	0
$u=\ \ 0.854784-0.724708I$ $a=\ \ 0.168650-0.435813I$ $b=-0.546254-0.152476I$	$1.84334+2.87370I$	0
$u=-0.504912+1.020440I$ $a=\ \ 0.872696-0.362187I$ $b=-0.512736-1.194000I$	$-0.58647+6.32932I$	0
$u=-0.504912-1.020440I$ $a=\ \ 0.872696+0.362187I$ $b=-0.512736+1.194000I$	$-0.58647-6.32932I$	0
$u=-0.868184+0.738801I$ $a=\ \ 0.289552-0.480800I$ $b=-0.904556-0.249326I$	$6.34019+8.45382I$	0
$u=-0.868184-0.738801I$ $a=\ \ 0.289552+0.480800I$ $b=-0.904556+0.249326I$	$6.34019-8.45382I$	0
$u=-0.600112+0.980099I$ $a=-1.008520+0.584348I$ $b=\ \ 0.311504+1.177840I$	$-0.98376+1.06441I$	0
$u=-0.600112-0.980099I$ $a=-1.008520-0.584348I$ $b=\ \ 0.311504-1.177840I$	$-0.98376-1.06441I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.520493 + 1.025400I$ $a = 0.222025 + 0.232359I$ $b = 1.136520 + 0.026847I$	$7.51782 - 7.30521I$	0
$u = 0.520493 - 1.025400I$ $a = 0.222025 - 0.232359I$ $b = 1.136520 - 0.026847I$	$7.51782 + 7.30521I$	0
$u = 0.078428 + 1.162160I$ $a = -0.082573 - 0.426293I$ $b = 0.744457 + 0.771748I$	$10.00370 - 5.64491I$	0
$u = 0.078428 - 1.162160I$ $a = -0.082573 + 0.426293I$ $b = 0.744457 - 0.771748I$	$10.00370 + 5.64491I$	0
$u = -0.497986 + 0.667887I$ $a = 2.07027 - 1.14040I$ $b = -0.420190 - 0.870978I$	$5.11645 + 0.63264I$	0
$u = -0.497986 - 0.667887I$ $a = 2.07027 + 1.14040I$ $b = -0.420190 + 0.870978I$	$5.11645 - 0.63264I$	0
$u = -0.546708 + 1.033890I$ $a = 0.487242 - 0.214922I$ $b = 0.365490 - 0.975410I$	$1.88749 - 4.73534I$	0
$u = -0.546708 - 1.033890I$ $a = 0.487242 + 0.214922I$ $b = 0.365490 + 0.975410I$	$1.88749 + 4.73534I$	0
$u = 0.729651 + 0.914947I$ $a = 0.693621 + 0.506734I$ $b = -0.448081 + 1.154430I$	$-1.78719 - 3.48751I$	0
$u = 0.729651 - 0.914947I$ $a = 0.693621 - 0.506734I$ $b = -0.448081 - 1.154430I$	$-1.78719 + 3.48751I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.190270+0.004013I$ $a=-0.257506+1.264490I$ $b=-0.536928+1.153270I$	$-0.78586-2.01558I$	0
$u=-1.190270-0.004013I$ $a=-0.257506-1.264490I$ $b=-0.536928-1.153270I$	$-0.78586+2.01558I$	0
$u=1.193610+0.075141I$ $a=0.80882+1.66380I$ $b=0.172551+0.925925I$	$0.88957+3.10119I$	0
$u=1.193610-0.075141I$ $a=0.80882-1.66380I$ $b=0.172551-0.925925I$	$0.88957-3.10119I$	0
$u=0.775884+0.116844I$ $a=0.017547-1.196340I$ $b=1.26055-0.78742I$	$6.15017+2.58736I$	0
$u=0.775884-0.116844I$ $a=0.017547+1.196340I$ $b=1.26055+0.78742I$	$6.15017-2.58736I$	0
$u=-0.645640+1.034180I$ $a=-0.055838+0.438883I$ $b=-1.030240+0.147900I$	$6.48084+7.16637I$	0
$u=-0.645640-1.034180I$ $a=-0.055838-0.438883I$ $b=-1.030240-0.147900I$	$6.48084-7.16637I$	0
$u=-0.375063+0.658711I$ $a=-0.0404358+0.0519131I$ $b=-1.242610+0.335553I$	$3.63591+0.77560I$	0
$u=-0.375063-0.658711I$ $a=-0.0404358-0.0519131I$ $b=-1.242610-0.335553I$	$3.63591-0.77560I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.648280+0.383759I$ $a=\ \ 0.74745-1.57356I$ $b=-0.266176-1.246510I$	$-2.75063+2.91296I$	0
$u=-0.648280-0.383759I$ $a=\ \ 0.74745+1.57356I$ $b=-0.266176+1.246510I$	$-2.75063-2.91296I$	0
$u=-0.145963+1.249030I$ $a=\ \ 0.072930+0.252364I$ $b=-0.708252-0.331805I$	$6.80014-0.98524I$	0
$u=-0.145963-1.249030I$ $a=\ \ 0.072930-0.252364I$ $b=-0.708252+0.331805I$	$6.80014+0.98524I$	0
$u=\ \ 0.414206+0.594935I$ $a=\ \ 0.23464-2.96723I$ $b=\ \ 0.280906-0.854234I$	$8.48399+1.23029I$	0
$u=\ \ 0.414206-0.594935I$ $a=\ \ 0.23464+2.96723I$ $b=\ \ 0.280906+0.854234I$	$8.48399-1.23029I$	0
$u=-0.904350+0.905008I$ $a=-0.436913+1.188460I$ $b=\ \ 0.80150+1.25250I$	$1.28325+10.77160I$	0
$u=-0.904350-0.905008I$ $a=-0.436913-1.188460I$ $b=\ \ 0.80150-1.25250I$	$1.28325-10.77160I$	0
$u=\ \ 0.647809+0.303687I$ $a=-0.786308+0.053820I$ $b=\ \ 0.334031+0.043604I$	$-1.18968-0.88706I$	0
$u=\ \ 0.647809-0.303687I$ $a=-0.786308-0.053820I$ $b=\ \ 0.334031-0.043604I$	$-1.18968+0.88706I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.163316 + 0.665238I$ $a = -0.387465 - 0.223752I$ $b = -0.546044 + 0.408136I$	$0.68504 - 1.82504I$	0
$u = 0.163316 - 0.665238I$ $a = -0.387465 + 0.223752I$ $b = -0.546044 - 0.408136I$	$0.68504 + 1.82504I$	0
$u = 1.011650 + 0.845123I$ $a = 0.89768 + 1.43016I$ $b = -0.335016 + 1.227380I$	$-2.13872 - 6.18708I$	0
$u = 1.011650 - 0.845123I$ $a = 0.89768 - 1.43016I$ $b = -0.335016 - 1.227380I$	$-2.13872 + 6.18708I$	0
$u = 0.889906 + 0.974652I$ $a = 0.366955 + 1.040480I$ $b = -0.53617 + 1.48658I$	$-1.88884 - 6.43571I$	0
$u = 0.889906 - 0.974652I$ $a = 0.366955 - 1.040480I$ $b = -0.53617 - 1.48658I$	$-1.88884 + 6.43571I$	0
$u = -0.885949 + 1.011380I$ $a = 0.536120 - 1.226330I$ $b = -0.63136 - 1.31120I$	$0.31397 + 7.30280I$	0
$u = -0.885949 - 1.011380I$ $a = 0.536120 + 1.226330I$ $b = -0.63136 + 1.31120I$	$0.31397 - 7.30280I$	0
$u = 0.207735 + 0.615939I$ $a = 1.11684 + 2.51065I$ $b = -0.436976 + 1.000520I$	$4.74461 - 5.18455I$	0
$u = 0.207735 - 0.615939I$ $a = 1.11684 - 2.51065I$ $b = -0.436976 - 1.000520I$	$4.74461 + 5.18455I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.912815+1.002290I$ $a=-0.260755+0.991715I$ $b=-0.180304+1.370620I$	$1.50947-5.83631I$	0
$u=-0.912815-1.002290I$ $a=-0.260755-0.991715I$ $b=-0.180304-1.370620I$	$1.50947+5.83631I$	0
$u=1.272840+0.504028I$ $a=-0.031400-1.196700I$ $b=0.77492-1.33716I$	$3.74983-10.30020I$	0
$u=1.272840-0.504028I$ $a=-0.031400+1.196700I$ $b=0.77492+1.33716I$	$3.74983+10.30020I$	0
$u=-0.902628+1.038890I$ $a=0.228435-0.681683I$ $b=0.882294-0.638210I$	$10.97600+0.52377I$	0
$u=-0.902628-1.038890I$ $a=0.228435+0.681683I$ $b=0.882294+0.638210I$	$10.97600-0.52377I$	0
$u=0.915533+1.043450I$ $a=-0.742379-0.657864I$ $b=0.127184-1.351910I$	$-1.59406-0.36141I$	0
$u=0.915533-1.043450I$ $a=-0.742379+0.657864I$ $b=0.127184+1.351910I$	$-1.59406+0.36141I$	0
$u=-0.620964+1.245300I$ $a=0.183858-0.191111I$ $b=0.873971-0.340419I$	$12.55830+2.20360I$	0
$u=-0.620964-1.245300I$ $a=0.183858+0.191111I$ $b=0.873971+0.340419I$	$12.55830-2.20360I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.05267 + 0.94865I$ $a = -0.269627 - 1.132980I$ $b = 0.74147 - 1.29615I$	$0.35903 - 6.16168I$	0
$u = 1.05267 - 0.94865I$ $a = -0.269627 + 1.132980I$ $b = 0.74147 + 1.29615I$	$0.35903 + 6.16168I$	0
$u = -0.486605 + 0.314191I$ $a = 0.14276 + 2.04441I$ $b = 0.726670 + 0.979494I$	$3.82035 - 0.68763I$	0
$u = -0.486605 - 0.314191I$ $a = 0.14276 - 2.04441I$ $b = 0.726670 - 0.979494I$	$3.82035 + 0.68763I$	0
$u = 0.161493 + 0.544438I$ $a = -2.33443 - 2.79550I$ $b = 0.559917 - 0.902548I$	$9.5218 - 10.6544I$	0
$u = 0.161493 - 0.544438I$ $a = -2.33443 + 2.79550I$ $b = 0.559917 + 0.902548I$	$9.5218 + 10.6544I$	0
$u = -0.96880 + 1.05731I$ $a = 0.852637 - 1.079550I$ $b = -0.435330 - 1.314710I$	$1.71307 + 13.07760I$	0
$u = -0.96880 - 1.05731I$ $a = 0.852637 + 1.079550I$ $b = -0.435330 + 1.314710I$	$1.71307 - 13.07760I$	0
$u = 1.24648 + 0.71844I$ $a = -0.721666 - 0.907415I$ $b = 0.067604 - 1.056210I$	$-3.77581 - 0.51652I$	0
$u = 1.24648 - 0.71844I$ $a = -0.721666 + 0.907415I$ $b = 0.067604 + 1.056210I$	$-3.77581 + 0.51652I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.547000$ $a = 0.150720$ $b = -1.31164$	2.94559	0
$u = 1.46038 + 0.09923I$ $a = -0.011323 + 1.136900I$ $b = -0.726965 + 1.019070I$	$-0.62153 - 2.91268I$	0
$u = 1.46038 - 0.09923I$ $a = -0.011323 - 1.136900I$ $b = -0.726965 - 1.019070I$	$-0.62153 + 2.91268I$	0
$u = -0.403512 + 0.352042I$ $a = -1.30155 + 2.93855I$ $b = 0.539081 + 0.450358I$	$3.35404 - 1.12833I$	0
$u = -0.403512 - 0.352042I$ $a = -1.30155 - 2.93855I$ $b = 0.539081 - 0.450358I$	$3.35404 + 1.12833I$	0
$u = -0.280879 + 0.454677I$ $a = -1.83157 + 0.18205I$ $b = 0.092745 - 0.252971I$	$1.96151 - 1.15179I$	0
$u = -0.280879 - 0.454677I$ $a = -1.83157 - 0.18205I$ $b = 0.092745 + 0.252971I$	$1.96151 + 1.15179I$	0
$u = 1.11368 + 0.97691I$ $a = -0.679328 - 1.013960I$ $b = 0.230785 - 1.136840I$	$-4.18944 - 3.16734I$	0
$u = 1.11368 - 0.97691I$ $a = -0.679328 + 1.013960I$ $b = 0.230785 + 1.136840I$	$-4.18944 + 3.16734I$	0
$u = -1.06021 + 1.04015I$ $a = -0.690830 + 0.958824I$ $b = 0.395163 + 1.125760I$	$-1.13533 + 8.72961I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.06021-1.04015I$ $a=-0.690830-0.958824I$ $b=\ \ 0.395163-1.125760I$	$-1.13533-8.72961I$	0
$u=-0.465085+0.084489I$ $a=-0.369601+1.073610I$ $b=-1.08011+1.78585I$	$3.68589+1.67525I$	0
$u=-0.465085-0.084489I$ $a=-0.369601-1.073610I$ $b=-1.08011-1.78585I$	$3.68589-1.67525I$	0
$u=\ \ 1.21558+0.97941I$ $a=\ \ 0.247984+1.218830I$ $b=-0.345740+1.290430I$	$-4.12830-5.19417I$	0
$u=\ \ 1.21558-0.97941I$ $a=\ \ 0.247984-1.218830I$ $b=-0.345740-1.290430I$	$-4.12830+5.19417I$	0
$u=\ \ 0.78065+1.37071I$ $a=\ \ 0.257680+0.406258I$ $b=\ \ 0.136914+0.818743I$	$1.22298-1.36266I$	0
$u=\ \ 0.78065-1.37071I$ $a=\ \ 0.257680-0.406258I$ $b=\ \ 0.136914-0.818743I$	$1.22298+1.36266I$	0
$u=-1.59400+0.07216I$ $a=\ \ 0.64309-1.29713I$ $b=\ \ 0.158468-0.677908I$	$7.84798+8.16268I$	0
$u=-1.59400-0.07216I$ $a=\ \ 0.64309+1.29713I$ $b=\ \ 0.158468+0.677908I$	$7.84798-8.16268I$	0
$u=-1.18356+1.09877I$ $a=-0.28026+1.49392I$ $b=\ \ 0.514646+1.150300I$	$10.00960+7.25143I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.18356-1.09877I$ $a=-0.28026-1.49392I$ $b=\ \ 0.514646-1.150300I$	$10.00960-7.25143I$	0
$u=-0.12593+1.61831I$ $a=\ \ 0.204006-0.004052I$ $b=-0.002941-0.769700I$	$7.17705-2.82884I$	0
$u=-0.12593-1.61831I$ $a=\ \ 0.204006+0.004052I$ $b=-0.002941+0.769700I$	$7.17705+2.82884I$	0
$u=\ \ 0.017343+0.366067I$ $a=\ \ 0.66291-1.48503I$ $b=-0.553947-0.215657I$	$1.47735+0.27324I$	0
$u=\ \ 0.017343-0.366067I$ $a=\ \ 0.66291+1.48503I$ $b=-0.553947+0.215657I$	$1.47735-0.27324I$	0
$u=-0.09706+1.64691I$ $a=-0.110543-0.957147I$ $b=-0.051572-1.107060I$	$0.036270-0.754360I$	0
$u=-0.09706-1.64691I$ $a=-0.110543+0.957147I$ $b=-0.051572+1.107060I$	$0.036270+0.754360I$	0
$u=-0.307499+0.163241I$ $a=-0.47069-3.49350I$ $b=-0.463097-1.093890I$	$0.23437+2.48943I$	0
$u=-0.307499-0.163241I$ $a=-0.47069+3.49350I$ $b=-0.463097+1.093890I$	$0.23437-2.48943I$	0
$u=\ \ 0.31028+1.64740I$ $a=\ \ 0.198130+0.055813I$ $b=\ \ 0.203485+0.956734I$	$8.26479+3.28704I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.31028 - 1.64740I$ $a = 0.198130 - 0.055813I$ $b = 0.203485 - 0.956734I$	$8.26479 - 3.28704I$	0
$u = -1.16397 + 1.23378I$ $a = -0.324732 + 1.215550I$ $b = 0.66772 + 1.37589I$	$7.1262 + 20.0565I$	0
$u = -1.16397 - 1.23378I$ $a = -0.324732 - 1.215550I$ $b = 0.66772 - 1.37589I$	$7.1262 - 20.0565I$	0
$u = -0.190750 + 0.234634I$ $a = 2.99491 - 1.54520I$ $b = -0.747436 + 0.400103I$	$2.18309 + 1.46498I$	$4.16818 - 3.49972I$
$u = -0.190750 - 0.234634I$ $a = 2.99491 + 1.54520I$ $b = -0.747436 - 0.400103I$	$2.18309 - 1.46498I$	$4.16818 + 3.49972I$
$u = 1.17193 + 1.23191I$ $a = -0.270649 - 1.283100I$ $b = 0.57351 - 1.34339I$	$3.44756 - 13.29700I$	0
$u = 1.17193 - 1.23191I$ $a = -0.270649 + 1.283100I$ $b = 0.57351 + 1.34339I$	$3.44756 + 13.29700I$	0
$u = -0.207601 + 0.172114I$ $a = 0.70550 + 1.60314I$ $b = 0.97894 + 2.53406I$	$3.13931 - 2.22445I$	$-5.5741 - 46.7303I$
$u = -0.207601 - 0.172114I$ $a = 0.70550 - 1.60314I$ $b = 0.97894 - 2.53406I$	$3.13931 + 2.22445I$	$-5.5741 + 46.7303I$
$u = 0.258492$ $a = -10.0700$ $b = -0.0786574$	3.82946	-71.1100

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.149195+0.167472I$ $a=\ 0.43058+8.90489I$ $b=\ 0.299184+1.032280I$	$3.49034+5.67599I$	$5.58049-9.56883I$
$u=-0.149195-0.167472I$ $a=\ 0.43058-8.90489I$ $b=\ 0.299184-1.032280I$	$3.49034-5.67599I$	$5.58049+9.56883I$
$u=\ 1.10638+1.41654I$ $a=\ 0.192681+1.140340I$ $b=-0.43505+1.35765I$	$-1.47650-7.55686I$	0
$u=\ 1.10638-1.41654I$ $a=\ 0.192681-1.140340I$ $b=-0.43505-1.35765I$	$-1.47650+7.55686I$	0
$u=\ 0.119634+0.155751I$ $a=\ 1.27070+0.78266I$ $b=\ 3.19410+0.73261I$	$3.34818+2.20925I$	$31.9788+91.6608I$
$u=\ 0.119634-0.155751I$ $a=\ 1.27070-0.78266I$ $b=\ 3.19410-0.73261I$	$3.34818-2.20925I$	$31.9788-91.6608I$
$u=-1.51948+1.02745I$ $a=-0.117529+1.235160I$ $b=\ 0.573793+1.036650I$	$9.57895+5.91037I$	0
$u=-1.51948-1.02745I$ $a=-0.117529-1.235160I$ $b=\ 0.573793-1.036650I$	$9.57895-5.91037I$	0
$u=-0.044748+0.158506I$ $a=\ 3.78888+1.31530I$ $b=-1.12424+1.11528I$	$2.20408+1.64225I$	$5.90303+2.91632I$
$u=-0.044748-0.158506I$ $a=\ 3.78888-1.31530I$ $b=-1.12424-1.11528I$	$2.20408-1.64225I$	$5.90303-2.91632I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.28625+1.31164I$ $a=\ \ 0.246969-1.171390I$ $b=-0.577938-1.288940I$	$2.94441+12.92850I$	0
$u=-1.28625-1.31164I$ $a=\ \ 0.246969+1.171390I$ $b=-0.577938+1.288940I$	$2.94441-12.92850I$	0
$u=-0.139313+0.068909I$ $a=-14.7687+6.0635I$ $b=\ \ 0.082647-0.802912I$	$7.05372+2.37538I$	$12.99741+3.23215I$
$u=-0.139313-0.068909I$ $a=-14.7687-6.0635I$ $b=\ \ 0.082647+0.802912I$	$7.05372-2.37538I$	$12.99741-3.23215I$
$u=-1.46605+1.12363I$ $a=-0.394671+1.030860I$ $b=-0.046187+0.891074I$	$0.736565-0.832997I$	0
$u=-1.46605-1.12363I$ $a=-0.394671-1.030860I$ $b=-0.046187-0.891074I$	$0.736565+0.832997I$	0
$u=-1.81882+1.33517I$ $a=\ \ 0.369790-0.828597I$ $b=\ \ 0.257955-1.041910I$	$6.49444-10.24100I$	0
$u=-1.81882-1.33517I$ $a=\ \ 0.369790+0.828597I$ $b=\ \ 0.257955+1.041910I$	$6.49444+10.24100I$	0
$u=-3.75199+0.69935I$ $a=-0.151485-1.101270I$ $b=-0.127502-0.997082I$	$2.16840+0.42004I$	0
$u=-3.75199-0.69935I$ $a=-0.151485+1.101270I$ $b=-0.127502+0.997082I$	$2.16840-0.42004I$	0

	Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=$	$2.13874+6.39227I$		
$a=$	$0.021968-1.056990I$	$1.88465+0.35470I$	0
$b=$	$0.038691-1.084290I$		
$u=$	$2.13874-6.39227I$		
$a=$	$0.021968+1.056990I$	$1.88465-0.35470I$	0
$b=$	$0.038691+1.084290I$		

II. $I_2^u = \langle 2.36 \times 10^{100} u^{38} - 3.38 \times 10^{100} u^{37} + \cdots + 3.28 \times 10^{101} b + 1.72 \times 10^{102},\ 9.76 \times 10^{101} u^{38} - 8.69 \times 10^{101} u^{37} + \cdots + 3.28 \times 10^{101} a + 9.72 \times 10^{102},\ u^{39} - u^{38} + \cdots + 28u - 1 \rangle$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -2.97876u^{38} + 2.65174u^{37} + \cdots + 552.060u - 29.6442 \\ -0.0718996u^{38} + 0.103190u^{37} + \cdots + 50.2370u - 5.25346 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -2.90686u^{38} + 2.54855u^{37} + \cdots + 501.823u - 24.3907 \\ -0.0718996u^{38} + 0.103190u^{37} + \cdots + 50.2370u - 5.25346 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1.48542u^{38} - 1.12890u^{37} + \cdots - 120.394u + 1.98643 \\ 0.324392u^{38} - 0.296829u^{37} + \cdots - 71.0152u + 3.63312 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -2.93077u^{38} + 2.61014u^{37} + \cdots + 544.934u - 29.2858 \\ -0.0692275u^{38} + 0.101796u^{37} + \cdots + 49.1579u - 5.21577 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 4.80139u^{38} - 4.42806u^{37} + \cdots - 980.350u + 50.4982 \\ 1.16827u^{38} - 1.11933u^{37} + \cdots - 275.449u + 19.7860 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.208866u^{38} - 0.371040u^{37} + \cdots - 210.395u + 26.9189 \\ -2.08899u^{38} + 1.90847u^{37} + \cdots + 387.382u - 16.9737 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.612805u^{38} - 0.345226u^{37} + \cdots + 37.6258u - 6.30508 \\ 0.259490u^{38} - 0.239913u^{37} + \cdots - 47.4001u + 1.76883 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -1.30252u^{38} + 1.17247u^{37} + \cdots + 251.863u - 13.7619 \\ -0.0697740u^{38} + 0.0835789u^{37} + \cdots + 35.2020u - 3.21810 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1.60429u^{38} + 1.41814u^{37} + \cdots + 290.554u - 15.1706 \\ -0.0396296u^{38} + 0.0543709u^{37} + \cdots + 23.3842u - 2.45425 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -5.08629u^{38} + 5.17271u^{37} + \cdots + 1407.44u - 84.7286$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{39} - u^{38} + \cdots + 28u - 1$
c_2	$u^{39} - 14u^{37} + \cdots - 2u + 1$
c_3	$u^{39} - 13u^{37} + \cdots - 13u - 1$
c_4	$u^{39} - u^{38} + \cdots - 2u^2 - 1$
c_5	$u^{39} + 14u^{38} + \cdots - 29u - 1$
c_6	$u^{39} - 14u^{37} + \cdots - 2u - 1$
c_7	$u^{39} - 3u^{38} + \cdots - 7u + 1$
c_8	$u^{39} - 9u^{37} + \cdots + 4u + 1$
c_9	$u^{39} + 4u^{38} + \cdots - 5u^2 + 1$
c_{10}	$u^{39} + 3u^{38} + \cdots - 7u - 1$
c_{11}	$u^{39} + u^{38} + \cdots + 2u^2 + 1$
c_{12}	$u^{39} - 4u^{38} + \cdots + 5u^2 - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{39} + 53y^{38} + \cdots + 196y - 1$
c_2, c_6	$y^{39} - 28y^{38} + \cdots + 34y - 1$
c_3	$y^{39} - 26y^{38} + \cdots + 73y - 1$
c_4, c_{11}	$y^{39} + 37y^{38} + \cdots - 4y - 1$
c_5	$y^{39} + 6y^{38} + \cdots - 365y - 1$
c_7, c_{10}	$y^{39} - 15y^{38} + \cdots + 29y - 1$
c_8	$y^{39} - 18y^{38} + \cdots - 20y - 1$
c_9, c_{12}	$y^{39} + 12y^{38} + \cdots + 10y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.283894 + 0.958496I$ $a = 0.054186 - 0.495379I$ $b = 0.384880 - 0.419224I$	$1.57245 - 1.70184I$	$10.25973 + 2.30840I$
$u = 0.283894 - 0.958496I$ $a = 0.054186 + 0.495379I$ $b = 0.384880 + 0.419224I$	$1.57245 + 1.70184I$	$10.25973 - 2.30840I$
$u = 0.434923 + 0.870016I$ $a = -0.522422 - 0.463390I$ $b = 0.49970 - 1.32999I$	$-1.93068 - 5.33382I$	$0.78916 + 2.89270I$
$u = 0.434923 - 0.870016I$ $a = -0.522422 + 0.463390I$ $b = 0.49970 + 1.32999I$	$-1.93068 + 5.33382I$	$0.78916 - 2.89270I$
$u = -0.062433 + 1.058050I$ $a = 0.159335 + 1.048050I$ $b = -0.131771 - 0.909309I$	$4.87100 + 4.63670I$	$3.29859 - 9.89000I$
$u = -0.062433 - 1.058050I$ $a = 0.159335 - 1.048050I$ $b = -0.131771 + 0.909309I$	$4.87100 - 4.63670I$	$3.29859 + 9.89000I$
$u = 0.929896 + 0.606040I$ $a = 0.156918 + 1.375950I$ $b = -0.75668 + 1.32338I$	$2.05107 - 8.66962I$	$5.28699 + 9.27112I$
$u = 0.929896 - 0.606040I$ $a = 0.156918 - 1.375950I$ $b = -0.75668 - 1.32338I$	$2.05107 + 8.66962I$	$5.28699 - 9.27112I$
$u = 0.012536 + 1.160820I$ $a = -0.599594 - 0.879500I$ $b = -0.264140 + 0.167102I$	$9.62431 + 2.26939I$	$10.68371 - 1.41934I$
$u = 0.012536 - 1.160820I$ $a = -0.599594 + 0.879500I$ $b = -0.264140 - 0.167102I$	$9.62431 - 2.26939I$	$10.68371 + 1.41934I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.544990+0.615372I$ $a=-2.99289+0.23618I$ $b=0.058713+0.847053I$	$6.95104+3.01739I$	$10.96822-5.96059I$
$u=-0.544990-0.615372I$ $a=-2.99289-0.23618I$ $b=0.058713-0.847053I$	$6.95104-3.01739I$	$10.96822+5.96059I$
$u=1.210620+0.141301I$ $a=0.012905-1.198860I$ $b=0.741968-1.081980I$	$-1.59260-3.01033I$	$0.+5.16985I$
$u=1.210620-0.141301I$ $a=0.012905+1.198860I$ $b=0.741968+1.081980I$	$-1.59260+3.01033I$	$0.-5.16985I$
$u=0.824413+0.944196I$ $a=0.752165+0.666950I$ $b=-0.168796+1.257960I$	$-2.58935-0.72676I$	0
$u=0.824413-0.944196I$ $a=0.752165-0.666950I$ $b=-0.168796-1.257960I$	$-2.58935+0.72676I$	0
$u=1.120210+0.606697I$ $a=0.782880+0.802864I$ $b=-0.163411+1.057810I$	$-2.96496-0.71358I$	0
$u=1.120210-0.606697I$ $a=0.782880-0.802864I$ $b=-0.163411-1.057810I$	$-2.96496+0.71358I$	0
$u=0.973740+0.896926I$ $a=-0.593215-1.238330I$ $b=0.380050-1.245890I$	$-3.02190-5.18032I$	0
$u=0.973740-0.896926I$ $a=-0.593215+1.238330I$ $b=0.380050+1.245890I$	$-3.02190+5.18032I$	0

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.063213+1.363290I$ $a=\ \ 0.003255+0.519207I$ $b=-0.305287-0.216645I$	$8.01695-2.68529I$	0
$u=-0.063213-1.363290I$ $a=\ \ 0.003255-0.519207I$ $b=-0.305287+0.216645I$	$8.01695+2.68529I$	0
$u=-0.925660+1.017680I$ $a=-0.522787+1.041120I$ $b=\ \ 0.654682+1.201800I$	$0.37675+9.35178I$	0
$u=-0.925660-1.017680I$ $a=-0.522787-1.041120I$ $b=\ \ 0.654682-1.201800I$	$0.37675-9.35178I$	0
$u=\ \ 0.940176+1.020680I$ $a=-0.358433-1.078100I$ $b=\ \ 0.57898-1.44846I$	$-2.25559-6.00109I$	0
$u=\ \ 0.940176-1.020680I$ $a=-0.358433+1.078100I$ $b=\ \ 0.57898+1.44846I$	$-2.25559+6.00109I$	0
$u=-1.47048+0.13554I$ $a=-0.29604+1.61174I$ $b=-0.396898+0.850253I$	$7.87263-9.76693I$	0
$u=-1.47048-0.13554I$ $a=-0.29604-1.61174I$ $b=-0.396898-0.850253I$	$7.87263+9.76693I$	0
$u=-0.163966+0.477813I$ $a=-2.64835-0.08724I$ $b=\ \ 0.549707+0.105227I$	$2.58844-0.84474I$	$13.5602-7.0609I$
$u=-0.163966-0.477813I$ $a=-2.64835+0.08724I$ $b=\ \ 0.549707-0.105227I$	$2.58844+0.84474I$	$13.5602+7.0609I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.099517+0.377472I$ $a=\ \ 0.558339-0.155252I$ $b=\ \ 2.13535-0.59889I$	$2.33432+1.93333I$	$21.7698-16.6799I$
$u=-0.099517-0.377472I$ $a=\ \ 0.558339+0.155252I$ $b=\ \ 2.13535+0.59889I$	$2.33432-1.93333I$	$21.7698+16.6799I$
$u=\ \ 0.201783$ $a=-9.19682$ $b=\ \ 0.372070$	3.92034	27.2510
$u=\ \ 0.0799594+0.0323524I$ $a=\ \ 0.12194+5.62062I$ $b=-2.14271+0.91414I$	$3.27002+2.24469I$	$-2.2088+20.9290I$
$u=\ \ 0.0799594-0.0323524I$ $a=\ \ 0.12194-5.62062I$ $b=-2.14271-0.91414I$	$3.27002-2.24469I$	$-2.2088-20.9290I$
$u=-1.99542+0.90444I$ $a=\ \ 0.020744+1.243490I$ $b=\ \ 0.150355+0.967883I$	$0.404638+0.127158I$	0
$u=-1.99542-0.90444I$ $a=\ \ 0.020744-1.243490I$ $b=\ \ 0.150355-0.967883I$	$0.404638-0.127158I$	0
$u=-1.08558+5.41274I$ $a=\ \ 0.009478+1.081920I$ $b=\ \ 0.009274+1.106210I$	$1.93970+0.33960I$	0
$u=-1.08558-5.41274I$ $a=\ \ 0.009478-1.081920I$ $b=\ \ 0.009274-1.106210I$	$1.93970-0.33960I$	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{39}-u^{38}+\cdots+28u-1)(u^{152}-18u^{151}+\cdots-39u+1)$
c_2	$(u^{39}-14u^{37}+\cdots-2u+1)(u^{152}-3u^{151}+\cdots+225401u-8611)$
c_3	$(u^{39}-13u^{37}+\cdots-13u-1)(u^{152}-u^{151}+\cdots-15926u-2857)$
c_4	$(u^{39}-u^{38}+\cdots-2u^2-1)(u^{152}+2u^{151}+\cdots-7903029u+617167)$
c_5	$(u^{39}+14u^{38}+\cdots-29u-1)$ $\cdot(u^{152}+5u^{151}+\cdots+305455361572u+24617683931)$
c_6	$(u^{39}-14u^{37}+\cdots-2u-1)(u^{152}-3u^{151}+\cdots+225401u-8611)$
c_7	$(u^{39}-3u^{38}+\cdots-7u+1)(u^{152}+6u^{151}+\cdots-4623182u+1967081)$
c_8	$(u^{39}-9u^{37}+\cdots+4u+1)$ $\cdot(u^{152}+3u^{151}+\cdots+438574749u-20742433)$
c_9	$(u^{39}+4u^{38}+\cdots-5u^2+1)(u^{152}+9u^{151}+\cdots-369447u+44911)$
c_{10}	$(u^{39}+3u^{38}+\cdots-7u-1)(u^{152}+6u^{151}+\cdots-4623182u+1967081)$
c_{11}	$(u^{39}+u^{38}+\cdots+2u^2+1)(u^{152}+2u^{151}+\cdots-7903029u+617167)$
c_{12}	$(u^{39}-4u^{38}+\cdots+5u^2-1)(u^{152}+9u^{151}+\cdots-369447u+44911)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{39}+53y^{38}+\cdots+196y-1)(y^{152}+56y^{151}+\cdots+23y+1)$
c_2, c_6	$(y^{39}-28y^{38}+\cdots+34y-1)$ $\cdot(y^{152}-101y^{151}+\cdots-16415773991y+74149321)$
c_3	$(y^{39}-26y^{38}+\cdots+73y-1)$ $\cdot(y^{152}-39y^{151}+\cdots-753263922y+8162449)$
c_4, c_{11}	$(y^{39}+37y^{38}+\cdots-4y-1)$ $\cdot(y^{152}+124y^{151}+\cdots-8121102240761y+380895105889)$
c_5	$(y^{39}+6y^{38}+\cdots-365y-1)$ $\cdot(y^{152}-63y^{151}+\cdots-2.20\times10^{22}y+6.06\times10^{20})$
c_7, c_{10}	$(y^{39}-15y^{38}+\cdots+29y-1)$ $\cdot(y^{152}-96y^{151}+\cdots-110104889750638y+3869407660561)$
c_8	$(y^{39}-18y^{38}+\cdots-20y-1)$ $\cdot(y^{152}+29y^{151}+\cdots+22531234880768715y+430248526759489)$
c_9, c_{12}	$(y^{39}+12y^{38}+\cdots+10y-1)$ $\cdot(y^{152}+79y^{151}+\cdots-258835027171y+2016997921)$