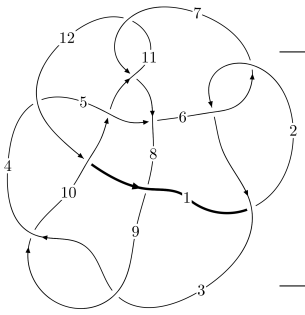
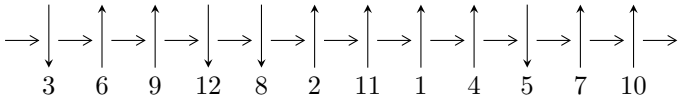
$12a_{0417}$ $(K12a_{0417})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle -2.58870 \times 10^{914} u^{158} - 4.92785 \times 10^{914} u^{157} + \cdots + 4.36446 \times 10^{913} b + 1.82161 \times 10^{918},$$
$$2.79231 \times 10^{918} u^{158} + 5.30945 \times 10^{918} u^{157} + \cdots + 3.35758 \times 10^{917} a - 1.96428 \times 10^{922},$$
$$u^{159} + 3u^{158} + \cdots - 5585u - 7693 \rangle$$
$$I_2^u = \langle 7.78906 \times 10^{28} u^{33} + 9.44633 \times 10^{29} u^{32} + \cdots + 1.85295 \times 10^{30} b - 1.18903 \times 10^{30},$$
$$1.56226 \times 10^{30} u^{33} - 2.83996 \times 10^{30} u^{32} + \cdots + 1.85295 \times 10^{30} a - 5.33132 \times 10^{30},\ u^{34} - 2u^{33} + \cdots - 2u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 193 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. $\boldsymbol{I_1^u = \langle -2.59 \times 10^{914} u^{158} - 4.93 \times 10^{914} u^{157} + \cdots + 4.36 \times 10^{913} b + 1.82 \times 10^{918},\ 2.79 \times 10^{918} u^{158} + 5.31 \times 10^{918} u^{157} + \cdots + 3.36 \times 10^{917} a - 1.96 \times 10^{922},\ u^{159} + 3u^{158} + \cdots - 5585u - 7693 \rangle}$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -8.31643u^{158} - 15.8133u^{157} + \cdots - 10997.8u + 58502.9 \\ 5.93131u^{158} + 11.2908u^{157} + \cdots + 7878.72u - 41737.3 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u \\ -u^3 + u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -8.25706u^{158} - 15.9801u^{157} + \cdots - 12458.3u + 59347.6 \\ 6.00813u^{158} + 11.5632u^{157} + \cdots + 8821.49u - 42858.5 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -19.1831u^{158} - 36.6088u^{157} + \cdots - 25689.8u + 135390. \\ 10.2278u^{158} + 19.5660u^{157} + \cdots + 14318.7u - 72582.6 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -2.24894u^{158} - 4.41684u^{157} + \cdots - 3636.81u + 16489.2 \\ 6.00813u^{158} + 11.5632u^{157} + \cdots + 8821.49u - 42858.5 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -3.49125u^{158} - 6.39222u^{157} + \cdots - 2490.36u + 23103.1 \\ -0.614725u^{158} - 1.24739u^{157} + \cdots - 1138.27u + 4569.40 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -1.11875u^{158} - 1.93583u^{157} + \cdots + 640.468u + 6227.96 \\ -0.643637u^{158} - 1.26257u^{157} + \cdots - 951.234u + 4807.22 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -9.07740u^{158} - 17.5307u^{157} + \cdots - 13309.7u + 64999.7 \\ 7.16040u^{158} + 13.7852u^{157} + \cdots + 10509.8u - 51057.3 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -6.09124u^{158} - 11.8316u^{157} + \cdots - 8380.13u + 43680.5 \\ 3.94321u^{158} + 7.58759u^{157} + \cdots + 5858.27u - 28047.9 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -19.9314u^{158} - 38.0090u^{157} + \cdots - 25810.6u + 139691.$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{159} + 64u^{158} + \cdots - 24822244u - 1203409$
c_2, c_6	$u^{159} + 32u^{157} + \cdots + 7818u - 1097$
c_3, c_9	$u^{159} + 3u^{158} + \cdots - 5585u - 7693$
c_4	$u^{159} + 5u^{158} + \cdots - 284121u - 279029$
c_5	$u^{159} - 3u^{158} + \cdots + 3862280u - 51256$
c_7, c_{11}	$u^{159} - u^{158} + \cdots - 4279u - 337$
c_8	$u^{159} - 3u^{158} + \cdots + 1114751u - 152107$
c_{10}	$u^{159} + u^{158} + \cdots - 326007u - 55291$
c_{12}	$u^{159} + 17u^{158} + \cdots + 17u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{159} + 68y^{158} + \cdots + 132998993025548y - 1448193221281$
c_2, c_6	$y^{159} + 64y^{158} + \cdots - 24822244y - 1203409$
c_3, c_9	$y^{159} - 115y^{158} + \cdots + 852604607y - 59182249$
c_4	$y^{159} + 27y^{158} + \cdots - 3685160020727y - 77857182841$
c_5	$y^{159} - 23y^{158} + \cdots + 200629593728y - 2627177536$
c_7, c_{11}	$y^{159} + 87y^{158} + \cdots + 6123921y - 113569$
c_8	$y^{159} - 55y^{158} + \cdots + 877102825123y - 23136539449$
c_{10}	$y^{159} - 35y^{158} + \cdots - 245150469517y - 3057094681$
c_{12}	$y^{159} - 21y^{158} + \cdots - 11y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.998230+0.056604I$ $a=-0.305260-0.965415I$ $b=\ \ 0.12662+1.68847I$	$-4.32266-0.19712I$	0
$u=-0.998230-0.056604I$ $a=-0.305260+0.965415I$ $b=\ \ 0.12662-1.68847I$	$-4.32266+0.19712I$	0
$u=\ \ 0.755548+0.696782I$ $a=\ \ 0.875163+0.305869I$ $b=-0.303629-1.264010I$	$-2.06960+2.68354I$	0
$u=\ \ 0.755548-0.696782I$ $a=\ \ 0.875163-0.305869I$ $b=-0.303629+1.264010I$	$-2.06960-2.68354I$	0
$u=\ \ 0.594627+0.762529I$ $a=\ \ 0.039425+0.356201I$ $b=-0.634948+0.986166I$	$-3.22180-5.85086I$	0
$u=\ \ 0.594627-0.762529I$ $a=\ \ 0.039425-0.356201I$ $b=-0.634948-0.986166I$	$-3.22180+5.85086I$	0
$u=-0.210807+1.034010I$ $a=-0.546647-0.382654I$ $b=\ \ 0.026452-1.210650I$	$-7.96372+6.45459I$	0
$u=-0.210807-1.034010I$ $a=-0.546647+0.382654I$ $b=\ \ 0.026452+1.210650I$	$-7.96372-6.45459I$	0
$u=\ \ 0.331910+0.876335I$ $a=-0.560436+0.166825I$ $b=\ \ 0.685940-0.528350I$	$0.69405+3.27940I$	0
$u=\ \ 0.331910-0.876335I$ $a=-0.560436-0.166825I$ $b=\ \ 0.685940+0.528350I$	$0.69405-3.27940I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.927144+0.530437I$ $a=\ \ 1.44593-0.37956I$ $b=-0.64661+1.26742I$	$-3.01406-2.12101I$	0
$u=-0.927144-0.530437I$ $a=\ \ 1.44593+0.37956I$ $b=-0.64661-1.26742I$	$-3.01406+2.12101I$	0
$u=\ \ 1.07110$ $a=\ \ 0.943144$ $b=-0.495655$	1.59479	0
$u=\ \ 1.034070+0.301640I$ $a=-0.546057-0.645865I$ $b=\ \ 0.034883-0.926985I$	$1.95234+2.25098I$	0
$u=\ \ 1.034070-0.301640I$ $a=-0.546057+0.645865I$ $b=\ \ 0.034883+0.926985I$	$1.95234-2.25098I$	0
$u=-0.260741+1.047610I$ $a=-1.072750-0.613680I$ $b=\ \ 0.620672-1.030020I$	$-0.74335-8.33939I$	0
$u=-0.260741-1.047610I$ $a=-1.072750+0.613680I$ $b=\ \ 0.620672+1.030020I$	$-0.74335+8.33939I$	0
$u=-1.029520+0.327415I$ $a=-0.189237-1.014620I$ $b=\ \ 0.762322+0.552008I$	$-0.47895-4.92362I$	0
$u=-1.029520-0.327415I$ $a=-0.189237+1.014620I$ $b=\ \ 0.762322-0.552008I$	$-0.47895+4.92362I$	0
$u=-0.989286+0.434947I$ $a=-0.34060+1.60831I$ $b=-0.146775+0.702020I$	$-0.40731-7.03209I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.989286-0.434947I$ $a=-0.34060-1.60831I$ $b=-0.146775-0.702020I$	$-0.40731+7.03209I$	0
$u=1.007980+0.391765I$ $a=-2.14801+0.97630I$ $b=0.658038+1.048600I$	$-1.93511+10.31950I$	0
$u=1.007980-0.391765I$ $a=-2.14801-0.97630I$ $b=0.658038-1.048600I$	$-1.93511-10.31950I$	0
$u=-1.084210+0.005524I$ $a=-2.25931+0.90723I$ $b=0.914933-0.929006I$	$0.72668-2.58040I$	0
$u=-1.084210-0.005524I$ $a=-2.25931-0.90723I$ $b=0.914933+0.929006I$	$0.72668+2.58040I$	0
$u=-1.068790+0.214090I$ $a=0.0044551+0.0808453I$ $b=-0.182360-1.328580I$	$-5.29763-0.05849I$	0
$u=-1.068790-0.214090I$ $a=0.0044551-0.0808453I$ $b=-0.182360+1.328580I$	$-5.29763+0.05849I$	0
$u=-0.226550+1.068610I$ $a=-0.818317+0.037390I$ $b=0.819079+0.477351I$	$-2.06232-8.57163I$	0
$u=-0.226550-1.068610I$ $a=-0.818317-0.037390I$ $b=0.819079-0.477351I$	$-2.06232+8.57163I$	0
$u=0.846723+0.301804I$ $a=0.765013-0.917829I$ $b=0.004476-1.127320I$	$-6.11695+3.56799I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.846723 - 0.301804I$ $a = 0.765013 + 0.917829I$ $b = 0.004476 + 1.127320I$	$-6.11695 - 3.56799I$	0
$u = -1.028450 + 0.403819I$ $a = 0.986638 + 0.435321I$ $b = -0.225840 + 0.967325I$	$-1.13088 - 2.45330I$	0
$u = -1.028450 - 0.403819I$ $a = 0.986638 - 0.435321I$ $b = -0.225840 - 0.967325I$	$-1.13088 + 2.45330I$	0
$u = 0.770144 + 0.439668I$ $a = 2.15042 - 0.12942I$ $b = -0.127552 - 0.974758I$	$-6.40260 - 0.41866I$	0
$u = 0.770144 - 0.439668I$ $a = 2.15042 + 0.12942I$ $b = -0.127552 + 0.974758I$	$-6.40260 + 0.41866I$	0
$u = -0.107615 + 0.875901I$ $a = -0.243278 + 0.940188I$ $b = 0.480889 + 1.034830I$	$-6.21376 + 3.91050I$	0
$u = -0.107615 - 0.875901I$ $a = -0.243278 - 0.940188I$ $b = 0.480889 - 1.034830I$	$-6.21376 - 3.91050I$	0
$u = -1.119340 + 0.010498I$ $a = 3.31565 - 0.12505I$ $b = -0.609534 - 0.817153I$	$1.56961 - 4.22958I$	0
$u = -1.119340 - 0.010498I$ $a = 3.31565 + 0.12505I$ $b = -0.609534 + 0.817153I$	$1.56961 + 4.22958I$	0
$u = -0.463833 + 0.744719I$ $a = 0.553671 + 0.798452I$ $b = -0.663530 + 0.663223I$	$-2.24861 + 0.78017I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.463833-0.744719I$ $a=\ \ 0.553671-0.798452I$ $b=-0.663530-0.663223I$	$-2.24861-0.78017I$	0
$u=\ \ 1.121500+0.240629I$ $a=-1.72268-0.17644I$ $b=\ \ 1.301470+0.287043I$	$1.31700+7.23660I$	0
$u=\ \ 1.121500-0.240629I$ $a=-1.72268+0.17644I$ $b=\ \ 1.301470-0.287043I$	$1.31700-7.23660I$	0
$u=\ \ 1.145460+0.096382I$ $a=-2.08745-0.91525I$ $b=\ \ 0.876025+1.046550I$	$0.37825+4.24541I$	0
$u=\ \ 1.145460-0.096382I$ $a=-2.08745+0.91525I$ $b=\ \ 0.876025-1.046550I$	$0.37825-4.24541I$	0
$u=\ \ 1.170950+0.120289I$ $a=\ \ 2.56337-0.84885I$ $b=-0.580563-0.945554I$	$5.02421+3.04131I$	0
$u=\ \ 1.170950-0.120289I$ $a=\ \ 2.56337+0.84885I$ $b=-0.580563+0.945554I$	$5.02421-3.04131I$	0
$u=-0.800888+0.093377I$ $a=\ \ 0.879486+0.160390I$ $b=-0.789295-0.645792I$	$-0.26494+2.40988I$	0
$u=-0.800888-0.093377I$ $a=\ \ 0.879486-0.160390I$ $b=-0.789295+0.645792I$	$-0.26494-2.40988I$	0
$u=-0.101398+1.195570I$ $a=\ \ 0.755610-0.083206I$ $b=-0.657040-0.877020I$	$0.31857+1.63483I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.101398-1.195570I$ $a=\ \ 0.755610+0.083206I$ $b=-0.657040+0.877020I$	$0.31857-1.63483I$	0
$u=-1.163570+0.319002I$ $a=\ \ 1.206670-0.445892I$ $b=-0.238517-0.522046I$	$-0.14787+3.09757I$	0
$u=-1.163570-0.319002I$ $a=\ \ 1.206670+0.445892I$ $b=-0.238517+0.522046I$	$-0.14787-3.09757I$	0
$u=-0.019567+0.792817I$ $a=-0.397181+1.272620I$ $b=\ \ 0.058253+1.040860I$	$-4.19818-2.06289I$	0
$u=-0.019567-0.792817I$ $a=-0.397181-1.272620I$ $b=\ \ 0.058253-1.040860I$	$-4.19818+2.06289I$	0
$u=\ \ 1.209160+0.106868I$ $a=\ \ 1.57776-0.14188I$ $b=-0.627327-1.163320I$	$4.87807+4.15319I$	0
$u=\ \ 1.209160-0.106868I$ $a=\ \ 1.57776+0.14188I$ $b=-0.627327+1.163320I$	$4.87807-4.15319I$	0
$u=\ \ 0.055245+0.777935I$ $a=\ \ 1.122840-0.737605I$ $b=-0.655588-0.932531I$	$-0.08140+3.07582I$	0
$u=\ \ 0.055245-0.777935I$ $a=\ \ 1.122840+0.737605I$ $b=-0.655588+0.932531I$	$-0.08140-3.07582I$	0
$u=\ \ 1.240920+0.011755I$ $a=-1.86456-0.33830I$ $b=\ \ 0.662989+0.919664I$	$4.23313+0.35055I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.240920 - 0.011755I$ $a = -1.86456 + 0.33830I$ $b = 0.662989 - 0.919664I$	$4.23313 - 0.35055I$	0
$u = 1.241290 + 0.049732I$ $a = 1.30674 + 2.17756I$ $b = -0.602910 - 0.889713I$	$1.33788 + 9.00851I$	0
$u = 1.241290 - 0.049732I$ $a = 1.30674 - 2.17756I$ $b = -0.602910 + 0.889713I$	$1.33788 - 9.00851I$	0
$u = 1.245610 + 0.055066I$ $a = 1.35726 - 0.68550I$ $b = -1.108180 + 0.495846I$	$4.06139 + 4.47431I$	0
$u = 1.245610 - 0.055066I$ $a = 1.35726 + 0.68550I$ $b = -1.108180 - 0.495846I$	$4.06139 - 4.47431I$	0
$u = -1.253840 + 0.171329I$ $a = -2.62849 + 0.37107I$ $b = 0.699047 - 0.918884I$	$4.38909 - 5.88148I$	0
$u = -1.253840 - 0.171329I$ $a = -2.62849 - 0.37107I$ $b = 0.699047 + 0.918884I$	$4.38909 + 5.88148I$	0
$u = 1.261490 + 0.131560I$ $a = -1.35271 + 1.60138I$ $b = 0.724564 - 0.780989I$	$4.80669 + 0.44565I$	0
$u = 1.261490 - 0.131560I$ $a = -1.35271 - 1.60138I$ $b = 0.724564 + 0.780989I$	$4.80669 - 0.44565I$	0
$u = -1.268540 + 0.079334I$ $a = 0.18558 + 2.09686I$ $b = -0.540326 - 0.776382I$	$5.61646 + 1.44960I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.268540-0.079334I$ $a=\ \ 0.18558-2.09686I$ $b=-0.540326+0.776382I$	$5.61646-1.44960I$	0
$u=-1.259180+0.185861I$ $a=\ \ 1.81294-0.21631I$ $b=-0.754992+1.181590I$	$1.92301-11.09530I$	0
$u=-1.259180-0.185861I$ $a=\ \ 1.81294+0.21631I$ $b=-0.754992-1.181590I$	$1.92301+11.09530I$	0
$u=-0.263817+0.668835I$ $a=\ \ 0.588389+0.026754I$ $b=-0.608365-0.811386I$	$0.36170+1.89276I$	0
$u=-0.263817-0.668835I$ $a=\ \ 0.588389-0.026754I$ $b=-0.608365+0.811386I$	$0.36170-1.89276I$	0
$u=-1.283580+0.012359I$ $a=\ \ 0.839158-0.724273I$ $b=-0.808124+0.465228I$	$7.02134-1.27085I$	0
$u=-1.283580-0.012359I$ $a=\ \ 0.839158+0.724273I$ $b=-0.808124-0.465228I$	$7.02134+1.27085I$	0
$u=\ \ 1.280260+0.114855I$ $a=-1.45072+0.78969I$ $b=\ \ 0.800436-0.852565I$	$4.51874-0.16581I$	0
$u=\ \ 1.280260-0.114855I$ $a=-1.45072-0.78969I$ $b=\ \ 0.800436+0.852565I$	$4.51874+0.16581I$	0
$u=\ \ 0.205143+1.270010I$ $a=-0.953570+0.304264I$ $b=\ \ 0.650565+1.088450I$	$-3.8636+14.0598I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.205143 - 1.270010I$ $a = -0.953570 - 0.304264I$ $b = 0.650565 - 1.088450I$	$-3.8636 - 14.0598I$	0
$u = 1.249030 + 0.313432I$ $a = 0.800746 - 0.476986I$ $b = -0.824676 + 0.214340I$	$-0.14374 + 3.65613I$	0
$u = 1.249030 - 0.313432I$ $a = 0.800746 + 0.476986I$ $b = -0.824676 - 0.214340I$	$-0.14374 - 3.65613I$	0
$u = 1.236870 + 0.372862I$ $a = -0.493892 + 0.126708I$ $b = 0.041339 + 1.196340I$	$-0.39157 + 6.26546I$	0
$u = 1.236870 - 0.372862I$ $a = -0.493892 - 0.126708I$ $b = 0.041339 - 1.196340I$	$-0.39157 - 6.26546I$	0
$u = -1.278050 + 0.229073I$ $a = -2.00152 + 0.44928I$ $b = 0.739935 - 0.905459I$	$4.32573 - 5.61032I$	0
$u = -1.278050 - 0.229073I$ $a = -2.00152 - 0.44928I$ $b = 0.739935 + 0.905459I$	$4.32573 + 5.61032I$	0
$u = -1.198420 + 0.511893I$ $a = -0.683459 + 0.146140I$ $b = 0.174514 - 1.327100I$	$-4.85586 - 11.87490I$	0
$u = -1.198420 - 0.511893I$ $a = -0.683459 - 0.146140I$ $b = 0.174514 + 1.327100I$	$-4.85586 + 11.87490I$	0
$u = -1.238580 + 0.417998I$ $a = 1.73426 + 0.47324I$ $b = -0.561304 + 1.106100I$	$-2.68541 - 8.54615I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.238580-0.417998I$ $a=\ \ 1.73426-0.47324I$ $b=-0.561304-1.106100I$	$-2.68541+8.54615I$	0
$u=-0.015696+0.684873I$ $a=\ \ 0.043489+0.639741I$ $b=\ \ 0.544402+0.177566I$	$-4.00879-0.00094I$	0
$u=-0.015696-0.684873I$ $a=\ \ 0.043489-0.639741I$ $b=\ \ 0.544402-0.177566I$	$-4.00879+0.00094I$	0
$u=\ \ 1.285200+0.298812I$ $a=-0.530389-1.181650I$ $b=-0.308619+0.784211I$	$-0.42326+5.17727I$	0
$u=\ \ 1.285200-0.298812I$ $a=-0.530389+1.181650I$ $b=-0.308619-0.784211I$	$-0.42326-5.17727I$	0
$u=\ \ 0.358641+0.573632I$ $a=\ \ 1.035120+0.380710I$ $b=-0.368695+0.030136I$	$0.872410+0.982789I$	0
$u=\ \ 0.358641-0.573632I$ $a=\ \ 1.035120-0.380710I$ $b=-0.368695-0.030136I$	$0.872410-0.982789I$	0
$u=-1.329220+0.226197I$ $a=-1.084910+0.254471I$ $b=\ \ 0.674735-0.248436I$	$4.98883-4.27401I$	0
$u=-1.329220-0.226197I$ $a=-1.084910-0.254471I$ $b=\ \ 0.674735+0.248436I$	$4.98883+4.27401I$	0
$u=-0.375116+0.515641I$ $a=-2.30431-0.56324I$ $b=\ \ 0.307512-1.083760I$	$-7.33839-2.83916I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.375116-0.515641I$ $a=-2.30431+0.56324I$ $b=\ \ 0.307512+1.083760I$	$-7.33839+2.83916I$	0
$u=-0.175734+0.581083I$ $a=\ \ 0.763350-0.171263I$ $b=\ \ 0.268253+1.071510I$	$-4.73018-1.86025I$	0
$u=-0.175734-0.581083I$ $a=\ \ 0.763350+0.171263I$ $b=\ \ 0.268253-1.071510I$	$-4.73018+1.86025I$	0
$u=-1.385180+0.155061I$ $a=\ \ 0.802320+0.298138I$ $b=-0.235301+0.611966I$	$-0.28888-3.13725I$	0
$u=-1.385180-0.155061I$ $a=\ \ 0.802320-0.298138I$ $b=-0.235301-0.611966I$	$-0.28888+3.13725I$	0
$u=-1.42109+0.10749I$ $a=-1.107990+0.769973I$ $b=\ \ 0.599310-0.722376I$	$4.87228-4.68602I$	0
$u=-1.42109-0.10749I$ $a=-1.107990-0.769973I$ $b=\ \ 0.599310+0.722376I$	$4.87228+4.68602I$	0
$u=-1.38287+0.42808I$ $a=-1.251540-0.599889I$ $b=\ \ 0.980732+0.486269I$	$6.16081-5.31879I$	0
$u=-1.38287-0.42808I$ $a=-1.251540+0.599889I$ $b=\ \ 0.980732-0.486269I$	$6.16081+5.31879I$	0
$u=\ \ 1.41457+0.38947I$ $a=-1.14148+0.87019I$ $b=\ \ 0.909295-0.681033I$	$6.58811+1.81713I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.41457 - 0.38947I$ $a = -1.14148 - 0.87019I$ $b = 0.909295 + 0.681033I$	$6.58811 - 1.81713I$	0
$u = -1.41994 + 0.38959I$ $a = 0.994183 + 0.913820I$ $b = -0.873194 - 0.560161I$	$6.13762 - 7.87850I$	0
$u = -1.41994 - 0.38959I$ $a = 0.994183 - 0.913820I$ $b = -0.873194 + 0.560161I$	$6.13762 + 7.87850I$	0
$u = 1.42157 + 0.47243I$ $a = 1.120800 - 0.859041I$ $b = -0.988226 + 0.576306I$	$3.0579 + 14.0234I$	0
$u = 1.42157 - 0.47243I$ $a = 1.120800 + 0.859041I$ $b = -0.988226 - 0.576306I$	$3.0579 - 14.0234I$	0
$u = 0.377555 + 0.328668I$ $a = 1.86659 - 1.42322I$ $b = -0.975459 + 0.687135I$	$-0.95796 - 4.69135I$	$0. + 9.65657I$
$u = 0.377555 - 0.328668I$ $a = 1.86659 + 1.42322I$ $b = -0.975459 - 0.687135I$	$-0.95796 + 4.69135I$	$0. - 9.65657I$
$u = 0.494676 + 0.039149I$ $a = 0.608157 - 0.438955I$ $b = -0.664879 + 1.095290I$	$-1.70446 - 3.38880I$	$4.00000 + 0.I$
$u = 0.494676 - 0.039149I$ $a = 0.608157 + 0.438955I$ $b = -0.664879 - 1.095290I$	$-1.70446 + 3.38880I$	$4.00000 + 0.I$
$u = 1.43311 + 0.45810I$ $a = 1.94979 - 0.10603I$ $b = -0.693002 - 1.087090I$	$4.5317 + 13.6898I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.43311 - 0.45810I$ $a = 1.94979 + 0.10603I$ $b = -0.693002 + 1.087090I$	$4.5317 - 13.6898I$	0
$u = -1.43238 + 0.47747I$ $a = -1.90101 + 0.02286I$ $b = 0.750615 - 1.043010I$	$5.45362 - 7.92777I$	0
$u = -1.43238 - 0.47747I$ $a = -1.90101 - 0.02286I$ $b = 0.750615 + 1.043010I$	$5.45362 + 7.92777I$	0
$u = -0.12850 + 1.50976I$ $a = 1.000350 - 0.272130I$ $b = -0.624161 - 0.809222I$	$0.52767 + 3.38319I$	0
$u = -0.12850 - 1.50976I$ $a = 1.000350 + 0.272130I$ $b = -0.624161 + 0.809222I$	$0.52767 - 3.38319I$	0
$u = 0.060754 + 0.475717I$ $a = 0.680605 + 0.814523I$ $b = -0.584284 - 0.472779I$	$0.61126 + 1.48879I$	$6.01391 - 4.96004I$
$u = 0.060754 - 0.475717I$ $a = 0.680605 - 0.814523I$ $b = -0.584284 + 0.472779I$	$0.61126 - 1.48879I$	$6.01391 + 4.96004I$
$u = 1.42760 + 0.54533I$ $a = -0.795754 + 0.827410I$ $b = 0.781138 - 0.790563I$	$4.99762 + 4.56492I$	0
$u = 1.42760 - 0.54533I$ $a = -0.795754 - 0.827410I$ $b = 0.781138 + 0.790563I$	$4.99762 - 4.56492I$	0
$u = -1.39875 + 0.63574I$ $a = -1.78996 - 0.28475I$ $b = 0.731904 - 0.940504I$	$4.53033 - 10.27560I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.39875-0.63574I$ $a=-1.78996+0.28475I$ $b=\ \ 0.731904+0.940504I$	$4.53033+10.27560I$	0
$u=-1.46201+0.53500I$ $a=\ \ 1.88190-0.00198I$ $b=-0.737831+1.125560I$	$1.3350-20.3047I$	0
$u=-1.46201-0.53500I$ $a=\ \ 1.88190+0.00198I$ $b=-0.737831-1.125560I$	$1.3350+20.3047I$	0
$u=\ \ 1.45420+0.57975I$ $a=-1.60649+0.33605I$ $b=\ \ 0.597537+0.922893I$	$4.65572+6.98413I$	0
$u=\ \ 1.45420-0.57975I$ $a=-1.60649-0.33605I$ $b=\ \ 0.597537-0.922893I$	$4.65572-6.98413I$	0
$u=\ \ 1.47628+0.56010I$ $a=-1.67532-0.13368I$ $b=\ \ 0.707049+1.134670I$	$4.18893+11.42150I$	0
$u=\ \ 1.47628-0.56010I$ $a=-1.67532+0.13368I$ $b=\ \ 0.707049-1.134670I$	$4.18893-11.42150I$	0
$u=-1.54415+0.44438I$ $a=-0.667840-0.731079I$ $b=\ \ 0.575105+0.778621I$	$5.13375-2.31436I$	0
$u=-1.54415-0.44438I$ $a=-0.667840+0.731079I$ $b=\ \ 0.575105-0.778621I$	$5.13375+2.31436I$	0
$u=-0.375435+0.064149I$ $a=\ \ 5.55414+1.85182I$ $b=\ \ 0.002629+0.664397I$	$-4.77694-1.09489I$	$-0.60906+8.24374I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.375435-0.064149I$ $a=5.55414-1.85182I$ $b=0.002629-0.664397I$	$-4.77694+1.09489I$	$-0.60906-8.24374I$
$u=0.238701+0.217595I$ $a=3.00357-1.12547I$ $b=0.528584-0.724297I$	$2.31513-1.60194I$	$7.58569-4.88635I$
$u=0.238701-0.217595I$ $a=3.00357+1.12547I$ $b=0.528584+0.724297I$	$2.31513+1.60194I$	$7.58569+4.88635I$
$u=-0.318100+0.003896I$ $a=2.05695+0.98958I$ $b=0.695973-0.454890I$	$-0.38959+4.08543I$	$4.80991-2.78422I$
$u=-0.318100-0.003896I$ $a=2.05695-0.98958I$ $b=0.695973+0.454890I$	$-0.38959-4.08543I$	$4.80991+2.78422I$
$u=0.10372+1.68534I$ $a=0.710432+0.039211I$ $b=-0.521295+0.999211I$	$-0.93111-4.39304I$	0
$u=0.10372-1.68534I$ $a=0.710432-0.039211I$ $b=-0.521295-0.999211I$	$-0.93111+4.39304I$	0
$u=0.072203+0.287898I$ $a=3.11145-0.49790I$ $b=0.531189-0.971492I$	$1.52091-2.70354I$	$-3.36689+10.25142I$
$u=0.072203-0.287898I$ $a=3.11145+0.49790I$ $b=0.531189+0.971492I$	$1.52091+2.70354I$	$-3.36689-10.25142I$
$u=1.71037+0.24675I$ $a=0.520132-0.273181I$ $b=-0.337170+0.857973I$	$-0.812201+0.684522I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.71037 - 0.24675I$ $a = 0.520132 + 0.273181I$ $b = -0.337170 - 0.857973I$	$-0.812201 - 0.684522I$	0
$u = 0.089842 + 0.243647I$ $a = 1.64776 + 2.66269I$ $b = 0.614847 + 1.077680I$	$-2.17842 + 9.17430I$	$1.82314 - 6.56921I$
$u = 0.089842 - 0.243647I$ $a = 1.64776 - 2.66269I$ $b = 0.614847 - 1.077680I$	$-2.17842 - 9.17430I$	$1.82314 + 6.56921I$
$u = -1.90614 + 0.21575I$ $a = 1.55686 - 0.17208I$ $b = -0.570536 + 0.806652I$	$0.903909 + 0.431493I$	0
$u = -1.90614 - 0.21575I$ $a = 1.55686 + 0.17208I$ $b = -0.570536 - 0.806652I$	$0.903909 - 0.431493I$	0
$u = 2.00152 + 0.05404I$ $a = 1.281640 - 0.515843I$ $b = -0.574496 + 0.902340I$	$0.58953 - 4.99476I$	0
$u = 2.00152 - 0.05404I$ $a = 1.281640 + 0.515843I$ $b = -0.574496 - 0.902340I$	$0.58953 + 4.99476I$	0
$u = 0.25425 + 2.43540I$ $a = 0.933225 + 0.284927I$ $b = -0.461292 + 0.776100I$	$-0.056205 + 0.448439I$	0
$u = 0.25425 - 2.43540I$ $a = 0.933225 - 0.284927I$ $b = -0.461292 - 0.776100I$	$-0.056205 - 0.448439I$	0

II.

$\boldsymbol{I_2^u = \langle 7.79\times 10^{28}u^{33}+9.45\times 10^{29}u^{32}+\cdots+1.85\times 10^{30}b-1.19\times 10^{30},\ 1.56\times 10^{30}u^{33}-2.84\times 10^{30}u^{32}+\cdots+1.85\times 10^{30}a-5.33\times 10^{30},\ u^{34}-2u^{33}+\cdots-2u+1\rangle}$

(i) Arc colorings

$$a_3 = \begin{pmatrix}1\\0\end{pmatrix}$$

$$a_9 = \begin{pmatrix}0\\u\end{pmatrix}$$

$$a_4 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$

$$a_6 = \begin{pmatrix}-0.843122u^{33}+1.53267u^{32}+\cdots-3.82545u+2.87721\\-0.0420360u^{33}-0.509800u^{32}+\cdots-4.00410u+0.641699\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}u\\-u^3+u\end{pmatrix}$$

$$a_2 = \begin{pmatrix}0.123433u^{33}-1.18111u^{32}+\cdots-6.24049u+2.01955\\0.774671u^{33}-0.993673u^{32}+\cdots+2.48256u-1.91740\end{pmatrix}$$

$$a_7 = \begin{pmatrix}0.293023u^{33}-1.37709u^{32}+\cdots-2.17885u-0.692909\\-0.168391u^{33}+1.12477u^{32}+\cdots+1.18168u+1.03755\end{pmatrix}$$

$$a_1 = \begin{pmatrix}0.898104u^{33}-2.17478u^{32}+\cdots-3.75793u+0.102148\\0.774671u^{33}-0.993673u^{32}+\cdots+2.48256u-1.91740\end{pmatrix}$$

$$a_8 = \begin{pmatrix}-1.54514u^{33}+2.72030u^{32}+\cdots+0.367285u-0.132372\\-0.122956u^{33}+0.431436u^{32}+\cdots+2.05304u-1.88832\end{pmatrix}$$

$$a_5 = \begin{pmatrix}-0.574428u^{33}+1.75434u^{32}+\cdots+7.10548u-0.260983\\-0.456970u^{33}+0.655203u^{32}+\cdots-0.918090u-0.578563\end{pmatrix}$$

$$a_{12} = \begin{pmatrix}0.335647u^{33}-1.64076u^{32}+\cdots-5.38566u+1.02002\\1.04455u^{33}-1.56367u^{32}+\cdots+1.47416u-1.59042\end{pmatrix}$$

$$a_{11} = \begin{pmatrix}0.317307u^{33}-1.83073u^{32}+\cdots-6.85640u-0.552115\\1.31326u^{33}-2.17579u^{32}+\cdots+4.44259u-1.62039\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -0.312721u^{33}-4.02626u^{32}+\cdots-16.9736u+4.08663$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{34} - 17u^{33} + \cdots - 11u + 1$
c_2	$u^{34} - 3u^{33} + \cdots - 5u + 1$
c_3	$u^{34} - 2u^{33} + \cdots - 2u + 1$
c_4	$u^{34} + 2u^{32} + \cdots + 12u + 1$
c_5	$u^{34} - 8u^{33} + \cdots - 8u + 8$
c_6	$u^{34} + 3u^{33} + \cdots + 5u + 1$
c_7	$u^{34} - 4u^{33} + \cdots + 2u + 1$
c_8	$u^{34} - 2u^{33} + \cdots + 2u + 1$
c_9	$u^{34} + 2u^{33} + \cdots + 2u + 1$
c_{10}	$u^{34} + 2u^{33} + \cdots + 4u + 1$
c_{11}	$u^{34} + 4u^{33} + \cdots - 2u + 1$
c_{12}	$u^{34} - 2u^{33} + \cdots - 10u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{34}+5y^{33}+\cdots+35y+1$
c_2, c_6	$y^{34}+17y^{33}+\cdots+11y+1$
c_3, c_9	$y^{34}-22y^{33}+\cdots-8y+1$
c_4	$y^{34}+4y^{33}+\cdots+30y+1$
c_5	$y^{34}+6y^{33}+\cdots-448y+64$
c_7, c_{11}	$y^{34}+16y^{33}+\cdots+30y+1$
c_8	$y^{34}-30y^{33}+\cdots-36y+1$
c_{10}	$y^{34}+2y^{33}+\cdots+16y+1$
c_{12}	$y^{34}-16y^{33}+\cdots-18y+1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.037460+0.107697I$ $a=\ 0.024559-0.841260I$ $b=\ 0.05676+1.65854I$	$-4.26208-0.47844I$	$5.1188+17.9896I$
$u=-1.037460-0.107697I$ $a=\ 0.024559+0.841260I$ $b=\ 0.05676-1.65854I$	$-4.26208+0.47844I$	$5.1188-17.9896I$
$u=-1.039050+0.329922I$ $a=-1.60912-1.00224I$ $b=\ 0.604943-1.075190I$	$-1.02241-10.39780I$	$6.03333+10.55997I$
$u=-1.039050-0.329922I$ $a=-1.60912+1.00224I$ $b=\ 0.604943+1.075190I$	$-1.02241+10.39780I$	$6.03333-10.55997I$
$u=\ 1.132460+0.189408I$ $a=-1.44644-0.87583I$ $b=\ 0.890935+0.411726I$	$1.29486+6.39221I$	$4.72662-4.68910I$
$u=\ 1.132460-0.189408I$ $a=-1.44644+0.87583I$ $b=\ 0.890935-0.411726I$	$1.29486-6.39221I$	$4.72662+4.68910I$
$u=\ 1.124730+0.301055I$ $a=\ 0.787383+0.348836I$ $b=\ 0.504825-0.572465I$	$0.67211+5.72156I$	$6.80555-7.67520I$
$u=\ 1.124730-0.301055I$ $a=\ 0.787383-0.348836I$ $b=\ 0.504825+0.572465I$	$0.67211-5.72156I$	$6.80555+7.67520I$
$u=\ 1.172190+0.100007I$ $a=-2.01129+0.45709I$ $b=\ 0.607915+1.072170I$	$4.39397+3.72369I$	$1.22026-2.72712I$
$u=\ 1.172190-0.100007I$ $a=-2.01129-0.45709I$ $b=\ 0.607915-1.072170I$	$4.39397-3.72369I$	$1.22026+2.72712I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.250160+0.054050I$ $a=-0.16783-1.84344I$ $b=\ 0.563659+0.674135I$	$5.72522+0.99009I$	$9.41736+5.61794I$
$u=-1.250160-0.054050I$ $a=-0.16783+1.84344I$ $b=\ 0.563659-0.674135I$	$5.72522-0.99009I$	$9.41736-5.61794I$
$u=\ 0.504144+0.313787I$ $a=\ 3.83365-1.30009I$ $b=-0.179504-0.686413I$	$-4.76543-0.57249I$	$0.00467-5.51612I$
$u=\ 0.504144-0.313787I$ $a=\ 3.83365+1.30009I$ $b=-0.179504+0.686413I$	$-4.76543+0.57249I$	$0.00467+5.51612I$
$u=-1.39489+0.24776I$ $a=-1.016030+0.328582I$ $b=\ 0.414536-0.339806I$	$4.49780-3.98143I$	0
$u=-1.39489-0.24776I$ $a=-1.016030-0.328582I$ $b=\ 0.414536+0.339806I$	$4.49780+3.98143I$	0
$u=-0.534455+0.082802I$ $a=\ 2.67648+0.12779I$ $b=-0.151152+1.039410I$	$-6.25261-2.12455I$	$-1.96588+2.83153I$
$u=-0.534455-0.082802I$ $a=\ 2.67648-0.12779I$ $b=-0.151152-1.039410I$	$-6.25261+2.12455I$	$-1.96588-2.83153I$
$u=\ 1.30269+0.70796I$ $a=\ 0.717575-0.257385I$ $b=-0.198165-0.937475I$	$-0.81936+3.42106I$	$0.-13.39678I$
$u=\ 1.30269-0.70796I$ $a=\ 0.717575+0.257385I$ $b=-0.198165+0.937475I$	$-0.81936-3.42106I$	$0.+13.39678I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.341394 + 0.320665I$ $a = 2.07448 - 0.15009I$ $b = -0.724108 - 1.132880I$	$-2.13505 + 3.78900I$	$-4.81674 - 7.68990I$
$u = 0.341394 - 0.320665I$ $a = 2.07448 + 0.15009I$ $b = -0.724108 + 1.132880I$	$-2.13505 - 3.78900I$	$-4.81674 + 7.68990I$
$u = -1.46437 + 0.48235I$ $a = -0.924427 - 0.680646I$ $b = 0.746388 + 0.682948I$	$5.72804 - 3.48847I$	0
$u = -1.46437 - 0.48235I$ $a = -0.924427 + 0.680646I$ $b = 0.746388 - 0.682948I$	$5.72804 + 3.48847I$	0
$u = 1.44874 + 0.59266I$ $a = -1.74982 + 0.09589I$ $b = 0.704911 + 1.002670I$	$4.77060 + 9.04248I$	0
$u = 1.44874 - 0.59266I$ $a = -1.74982 - 0.09589I$ $b = 0.704911 - 1.002670I$	$4.77060 - 9.04248I$	0
$u = 0.176370 + 0.387871I$ $a = -1.34170 + 0.49120I$ $b = -0.551173 + 0.883307I$	$1.77136 - 2.19523I$	$5.07992 - 0.09369I$
$u = 0.176370 - 0.387871I$ $a = -1.34170 - 0.49120I$ $b = -0.551173 - 0.883307I$	$1.77136 + 2.19523I$	$5.07992 + 0.09369I$
$u = -0.215349 + 0.350732I$ $a = 2.71519 + 0.77963I$ $b = -0.815001 + 0.885612I$	$-1.40857 - 2.69226I$	$-3.02491 + 3.37682I$
$u = -0.215349 - 0.350732I$ $a = 2.71519 - 0.77963I$ $b = -0.815001 - 0.885612I$	$-1.40857 + 2.69226I$	$-3.02491 - 3.37682I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 1.23113 + 1.03828I$ $a = \quad 1.050780 + 0.179318I$ $b = -0.538363 + 0.666254I$	$0.12957 - 3.35586I$	0
$u = \quad 1.23113 - 1.03828I$ $a = \quad 1.050780 - 0.179318I$ $b = -0.538363 - 0.666254I$	$0.12957 + 3.35586I$	0
$u = -0.49812 + 2.01443I$ $a = \quad 0.886567 - 0.316831I$ $b = -0.437408 - 0.762400I$	$-0.093366 - 0.479430I$	0
$u = -0.49812 - 2.01443I$ $a = \quad 0.886567 + 0.316831I$ $b = -0.437408 + 0.762400I$	$-0.093366 + 0.479430I$	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{34}-17u^{33}+\cdots-11u+1)$ $\cdot(u^{159}+64u^{158}+\cdots-24822244u-1203409)$
c_2	$(u^{34}-3u^{33}+\cdots-5u+1)(u^{159}+32u^{157}+\cdots+7818u-1097)$
c_3	$(u^{34}-2u^{33}+\cdots-2u+1)(u^{159}+3u^{158}+\cdots-5585u-7693)$
c_4	$(u^{34}+2u^{32}+\cdots+12u+1)(u^{159}+5u^{158}+\cdots-284121u-279029)$
c_5	$(u^{34}-8u^{33}+\cdots-8u+8)(u^{159}-3u^{158}+\cdots+3862280u-51256)$
c_6	$(u^{34}+3u^{33}+\cdots+5u+1)(u^{159}+32u^{157}+\cdots+7818u-1097)$
c_7	$(u^{34}-4u^{33}+\cdots+2u+1)(u^{159}-u^{158}+\cdots-4279u-337)$
c_8	$(u^{34}-2u^{33}+\cdots+2u+1)(u^{159}-3u^{158}+\cdots+1114751u-152107)$
c_9	$(u^{34}+2u^{33}+\cdots+2u+1)(u^{159}+3u^{158}+\cdots-5585u-7693)$
c_{10}	$(u^{34}+2u^{33}+\cdots+4u+1)(u^{159}+u^{158}+\cdots-326007u-55291)$
c_{11}	$(u^{34}+4u^{33}+\cdots-2u+1)(u^{159}-u^{158}+\cdots-4279u-337)$
c_{12}	$(u^{34}-2u^{33}+\cdots-10u+1)(u^{159}+17u^{158}+\cdots+17u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{34}+5y^{33}+\cdots+35y+1)$ $\cdot(y^{159}+68y^{158}+\cdots+132998993025548y-1448193221281)$
c_2, c_6	$(y^{34}+17y^{33}+\cdots+11y+1)$ $\cdot(y^{159}+64y^{158}+\cdots-24822244y-1203409)$
c_3, c_9	$(y^{34}-22y^{33}+\cdots-8y+1)$ $\cdot(y^{159}-115y^{158}+\cdots+852604607y-59182249)$
c_4	$(y^{34}+4y^{33}+\cdots+30y+1)$ $\cdot(y^{159}+27y^{158}+\cdots-3685160020727y-77857182841)$
c_5	$(y^{34}+6y^{33}+\cdots-448y+64)$ $\cdot(y^{159}-23y^{158}+\cdots+200629593728y-2627177536)$
c_7, c_{11}	$(y^{34}+16y^{33}+\cdots+30y+1)$ $\cdot(y^{159}+87y^{158}+\cdots+6123921y-113569)$
c_8	$(y^{34}-30y^{33}+\cdots-36y+1)$ $\cdot(y^{159}-55y^{158}+\cdots+877102825123y-23136539449)$
c_{10}	$(y^{34}+2y^{33}+\cdots+16y+1)$ $\cdot(y^{159}-35y^{158}+\cdots-245150469517y-3057094681)$
c_{12}	$(y^{34}-16y^{33}+\cdots-18y+1)(y^{159}-21y^{158}+\cdots-11y-1)$