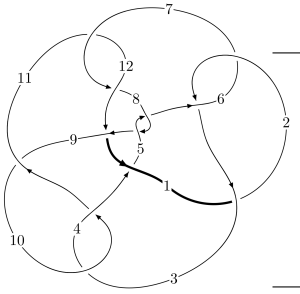
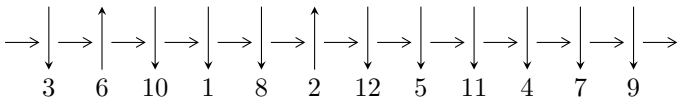
$12a_{0461}$ $(K12a_{0461})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & -2.78345 \times 10^{428} u^{153} + 4.11856 \times 10^{427} u^{152} + \cdots + 4.56915 \times 10^{427} b - 9.76978 \times 10^{430}, \\ & 9.27335 \times 10^{430} u^{153} - 7.70278 \times 10^{430} u^{152} + \cdots + 1.64946 \times 10^{430} a + 5.63983 \times 10^{433}, \\ & u^{154} - u^{153} + \cdots + 171u - 361 \rangle \\ I_2^u = \langle & 63182u^{37} + 18834u^{36} + \cdots + 9223b + 14567,\ -130140u^{37} + 149794u^{36} + \cdots + 9223a - 397212, \\ & u^{38} - 12u^{36} + \cdots + 3u + 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 192 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. $\boldsymbol{I_1^u = \langle -2.78 \times 10^{428} u^{153} + 4.12 \times 10^{427} u^{152} + \cdots + 4.57 \times 10^{427} b - 9.77 \times 10^{430},\ 9.27 \times 10^{430} u^{153} - 7.70 \times 10^{430} u^{152} + \cdots + 1.65 \times 10^{430} a + 5.64 \times 10^{433},\ u^{154} - u^{153} + \cdots + 171u - 361 \rangle}$

(i) Arc colorings

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

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

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

$$a_6 = \begin{pmatrix} -5.62204u^{153} + 4.66987u^{152} + \cdots - 2354.78u - 3419.19 \\ 6.09184u^{153} - 0.901385u^{152} + \cdots + 568.938u + 2138.21 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -5.24596u^{153} + 9.36123u^{152} + \cdots - 4581.17u - 4917.49 \\ 6.95746u^{153} - 3.20412u^{152} + \cdots + 1434.58u + 3079.92 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -5.07748u^{153} + 4.33395u^{152} + \cdots - 2100.13u - 3095.74 \\ 2.24063u^{153} - 1.35986u^{152} + \cdots + 823.755u + 1352.76 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 1.71150u^{153} + 6.15711u^{152} + \cdots - 3146.59u - 1837.57 \\ 6.95746u^{153} - 3.20412u^{152} + \cdots + 1434.58u + 3079.92 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -1.38432u^{153} + 1.94270u^{152} + \cdots - 904.514u - 960.807 \\ -0.598030u^{153} + 0.453949u^{152} + \cdots - 271.071u - 321.745 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} u^3 \\ u^5 - u^3 + u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 2.43930u^{153} + 2.36182u^{152} + \cdots - 1416.92u - 352.069 \\ 2.30804u^{153} - 0.840085u^{152} + \cdots + 467.621u + 1009.50 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -5.77366u^{153} + 9.18108u^{152} + \cdots - 4535.31u - 5011.51 \\ 6.24262u^{153} - 3.12187u^{152} + \cdots + 1465.57u + 2852.48 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -3.50475u^{153} + 1.30202u^{152} + \cdots + 90.3994u - 1206.07$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{154} + 64u^{153} + \cdots + 54112666u + 1857769$
c_2, c_6	$u^{154} - 2u^{153} + \cdots + 3074u + 1363$
c_3, c_{10}	$u^{154} - u^{153} + \cdots + 171u - 361$
c_4	$u^{154} - 6u^{153} + \cdots + 28566941u + 26372777$
c_5, c_8	$u^{154} - 3u^{153} + \cdots + 4572u + 4921$
c_7, c_{11}	$u^{154} + 3u^{153} + \cdots - 60545u - 9307$
c_9	$u^{154} + 71u^{153} + \cdots + 2567071u + 130321$
c_{12}	$u^{154} - 3u^{153} + \cdots - 9312u - 521$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{154} + 72y^{153} + \cdots - 893114824048786y + 3451305657361$
c_2, c_6	$y^{154} + 64y^{153} + \cdots + 54112666y + 1857769$
c_3, c_{10}	$y^{154} - 71y^{153} + \cdots - 2567071y + 130321$
c_4	$y^{154} + 46y^{153} + \cdots + 19716884500334309y + 695523366691729$
c_5, c_8	$y^{154} + 93y^{153} + \cdots + 417233130y + 24216241$
c_7, c_{11}	$y^{154} - 89y^{153} + \cdots - 3771070879y + 86620249$
c_9	$y^{154} + 45y^{153} + \cdots - 127131132883y + 16983563041$
c_{12}	$y^{154} + 11y^{153} + \cdots - 91631584y + 271441$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.822066+0.579429I$ $a=-0.444752+1.270860I$ $b=1.167560-0.604263I$	$4.77078-1.29277I$	0
$u=-0.822066-0.579429I$ $a=-0.444752-1.270860I$ $b=1.167560+0.604263I$	$4.77078+1.29277I$	0
$u=0.894179+0.465461I$ $a=2.58293+1.18423I$ $b=-0.544581+0.941019I$	$-2.03197-3.12428I$	0
$u=0.894179-0.465461I$ $a=2.58293-1.18423I$ $b=-0.544581-0.941019I$	$-2.03197+3.12428I$	0
$u=0.574939+0.805385I$ $a=1.265130-0.459295I$ $b=-0.826306+0.646658I$	$7.65595+1.31070I$	0
$u=0.574939-0.805385I$ $a=1.265130+0.459295I$ $b=-0.826306-0.646658I$	$7.65595-1.31070I$	0
$u=0.947941+0.282051I$ $a=0.30114-1.56279I$ $b=-0.479556-1.140250I$	$-3.60832+4.35982I$	0
$u=0.947941-0.282051I$ $a=0.30114+1.56279I$ $b=-0.479556+1.140250I$	$-3.60832-4.35982I$	0
$u=0.987612+0.018641I$ $a=0.00318-1.91294I$ $b=-0.217069-0.968326I$	$-3.71429+2.24347I$	0
$u=0.987612-0.018641I$ $a=0.00318+1.91294I$ $b=-0.217069+0.968326I$	$-3.71429-2.24347I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.668369+0.726264I$ $a=-0.718297+0.714281I$ $b=\ \ 0.551305-1.139770I$	$0.97716-2.43901I$	0
$u=-0.668369-0.726264I$ $a=-0.718297-0.714281I$ $b=\ \ 0.551305+1.139770I$	$0.97716+2.43901I$	0
$u=-0.579363+0.833528I$ $a=-1.173620+0.332681I$ $b=\ \ 0.591151-0.942502I$	$1.98078-2.74234I$	0
$u=-0.579363-0.833528I$ $a=-1.173620-0.332681I$ $b=\ \ 0.591151+0.942502I$	$1.98078+2.74234I$	0
$u=\ \ 0.871465+0.458008I$ $a=-1.35338-1.13202I$ $b=\ \ 0.682615+0.782945I$	$-1.94534-0.62809I$	0
$u=\ \ 0.871465-0.458008I$ $a=-1.35338+1.13202I$ $b=\ \ 0.682615-0.782945I$	$-1.94534+0.62809I$	0
$u=-0.918836+0.451681I$ $a=-0.605092+0.903934I$ $b=-0.175140+1.029180I$	$-1.93769+1.71433I$	0
$u=-0.918836-0.451681I$ $a=-0.605092-0.903934I$ $b=-0.175140-1.029180I$	$-1.93769-1.71433I$	0
$u=-0.729682+0.721684I$ $a=\ \ 0.486555-1.028990I$ $b=-0.79150+1.18399I$	$2.08567-3.75466I$	0
$u=-0.729682-0.721684I$ $a=\ \ 0.486555+1.028990I$ $b=-0.79150-1.18399I$	$2.08567+3.75466I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.520555+0.886692I$ $a=\ \ 1.54611+0.12124I$ $b=-0.953786-0.548158I$	$5.33324-7.64609I$	0
$u=-0.520555-0.886692I$ $a=\ \ 1.54611-0.12124I$ $b=-0.953786+0.548158I$	$5.33324+7.64609I$	0
$u=\ \ 0.917644+0.474316I$ $a=\ \ 1.07137+1.83095I$ $b=-0.568197-0.546614I$	$-0.18917-5.27709I$	0
$u=\ \ 0.917644-0.474316I$ $a=\ \ 1.07137-1.83095I$ $b=-0.568197+0.546614I$	$-0.18917+5.27709I$	0
$u=\ \ 0.850743+0.454824I$ $a=-3.54253-0.52996I$ $b=\ \ 0.433739-0.796809I$	$0.05968+1.50926I$	0
$u=\ \ 0.850743-0.454824I$ $a=-3.54253+0.52996I$ $b=\ \ 0.433739+0.796809I$	$0.05968-1.50926I$	0
$u=-0.497579+0.907977I$ $a=-1.54017-0.19865I$ $b=\ \ 0.775781+0.624816I$	$1.20572-1.73714I$	0
$u=-0.497579-0.907977I$ $a=-1.54017+0.19865I$ $b=\ \ 0.775781-0.624816I$	$1.20572+1.73714I$	0
$u=-0.876837+0.560697I$ $a=\ \ 1.66191-0.43835I$ $b=-1.21803-0.77054I$	$4.60760+5.83375I$	0
$u=-0.876837-0.560697I$ $a=\ \ 1.66191+0.43835I$ $b=-1.21803+0.77054I$	$4.60760-5.83375I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.878557 + 0.356936I$ $a = -0.899409 + 0.785346I$ $b = 0.511909 + 1.111000I$	$-3.76126 + 0.86569I$	0
$u = 0.878557 - 0.356936I$ $a = -0.899409 - 0.785346I$ $b = 0.511909 - 1.111000I$	$-3.76126 - 0.86569I$	0
$u = -0.892698 + 0.317318I$ $a = -0.142050 - 0.305134I$ $b = -0.651868 - 0.110332I$	$-0.748888 - 0.051632I$	0
$u = -0.892698 - 0.317318I$ $a = -0.142050 + 0.305134I$ $b = -0.651868 + 0.110332I$	$-0.748888 + 0.051632I$	0
$u = -0.923163 + 0.505766I$ $a = -0.780045 - 0.137098I$ $b = 0.759557 + 0.367110I$	$-1.46508 + 3.89283I$	0
$u = -0.923163 - 0.505766I$ $a = -0.780045 + 0.137098I$ $b = 0.759557 - 0.367110I$	$-1.46508 - 3.89283I$	0
$u = -0.906674 + 0.538347I$ $a = 0.95178 - 1.61428I$ $b = 0.083826 - 1.026110I$	$0.71731 + 5.70936I$	0
$u = -0.906674 - 0.538347I$ $a = 0.95178 + 1.61428I$ $b = 0.083826 + 1.026110I$	$0.71731 - 5.70936I$	0
$u = 0.820406 + 0.458403I$ $a = 0.647027 + 1.181240I$ $b = -1.05924 - 1.01980I$	$3.87296 + 2.04708I$	0
$u = 0.820406 - 0.458403I$ $a = 0.647027 - 1.181240I$ $b = -1.05924 + 1.01980I$	$3.87296 - 2.04708I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.491837+0.939919I$ $a=1.149150-0.165391I$ $b=-0.665878+0.767357I$	$5.03680+3.07332I$	0
$u=-0.491837-0.939919I$ $a=1.149150+0.165391I$ $b=-0.665878-0.767357I$	$5.03680-3.07332I$	0
$u=0.945523+0.495565I$ $a=-1.99803-0.97327I$ $b=0.882851-1.066330I$	$3.40570-5.90996I$	0
$u=0.945523-0.495565I$ $a=-1.99803+0.97327I$ $b=0.882851+1.066330I$	$3.40570+5.90996I$	0
$u=0.770452+0.739156I$ $a=-1.248880+0.251459I$ $b=0.594063-0.525342I$	$2.97747-1.79063I$	0
$u=0.770452-0.739156I$ $a=-1.248880-0.251459I$ $b=0.594063+0.525342I$	$2.97747+1.79063I$	0
$u=0.462193+0.966845I$ $a=1.176070+0.594409I$ $b=-0.713019-1.119190I$	$3.5607+13.7363I$	0
$u=0.462193-0.966845I$ $a=1.176070-0.594409I$ $b=-0.713019+1.119190I$	$3.5607-13.7363I$	0
$u=-0.470514+0.799319I$ $a=1.355640-0.226669I$ $b=-0.701764+1.026230I$	$6.49583-7.02496I$	0
$u=-0.470514-0.799319I$ $a=1.355640+0.226669I$ $b=-0.701764-1.026230I$	$6.49583+7.02496I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.815400 + 0.697882I$ $a = -1.089590 - 0.840715I$ $b = 1.078540 + 0.172318I$	$4.76065 - 2.44822I$	0
$u = 0.815400 - 0.697882I$ $a = -1.089590 + 0.840715I$ $b = 1.078540 - 0.172318I$	$4.76065 + 2.44822I$	0
$u = -0.754448 + 0.536803I$ $a = -0.392491 - 0.695246I$ $b = 0.146016 - 0.972184I$	$1.17020 - 1.35654I$	0
$u = -0.754448 - 0.536803I$ $a = -0.392491 + 0.695246I$ $b = 0.146016 + 0.972184I$	$1.17020 + 1.35654I$	0
$u = -1.083000 + 0.078736I$ $a = 0.174446 - 0.429268I$ $b = 0.610702 - 0.769764I$	$1.57089 + 0.38016I$	0
$u = -1.083000 - 0.078736I$ $a = 0.174446 + 0.429268I$ $b = 0.610702 + 0.769764I$	$1.57089 - 0.38016I$	0
$u = 1.022580 + 0.381336I$ $a = 0.89246 + 1.66749I$ $b = -0.375939 + 1.147050I$	$-4.26811 - 3.61828I$	0
$u = 1.022580 - 0.381336I$ $a = 0.89246 - 1.66749I$ $b = -0.375939 - 1.147050I$	$-4.26811 + 3.61828I$	0
$u = 0.423073 + 1.008590I$ $a = -1.198600 - 0.573364I$ $b = 0.673937 + 1.032060I$	$-0.02924 + 7.23734I$	0
$u = 0.423073 - 1.008590I$ $a = -1.198600 + 0.573364I$ $b = 0.673937 - 1.032060I$	$-0.02924 - 7.23734I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.691432+0.580549I$ $a=\ \ 0.46157-2.05865I$ $b=-0.496029+0.785846I$	$-1.45978-1.10196I$	0
$u=-0.691432-0.580549I$ $a=\ \ 0.46157+2.05865I$ $b=-0.496029-0.785846I$	$-1.45978+1.10196I$	0
$u=\ \ 1.093050+0.111168I$ $a=-0.06711+1.46631I$ $b=\ \ 0.591387+0.890936I$	$1.22073+5.13744I$	0
$u=\ \ 1.093050-0.111168I$ $a=-0.06711-1.46631I$ $b=\ \ 0.591387-0.890936I$	$1.22073-5.13744I$	0
$u=\ \ 0.333598+0.828789I$ $a=\ \ 1.32166+0.65256I$ $b=-0.786662-0.864514I$	$6.44245+1.96973I$	0
$u=\ \ 0.333598-0.828789I$ $a=\ \ 1.32166-0.65256I$ $b=-0.786662+0.864514I$	$6.44245-1.96973I$	0
$u=-0.957114+0.567759I$ $a=-2.30954-0.37752I$ $b=\ \ 0.624720+0.894756I$	$-2.28055+5.68893I$	0
$u=-0.957114-0.567759I$ $a=-2.30954+0.37752I$ $b=\ \ 0.624720-0.894756I$	$-2.28055-5.68893I$	0
$u=-0.415910+0.782812I$ $a=\ \ 1.68218+0.31117I$ $b=-0.803099-0.894750I$	$6.37596+3.98356I$	0
$u=-0.415910-0.782812I$ $a=\ \ 1.68218-0.31117I$ $b=-0.803099+0.894750I$	$6.37596-3.98356I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.880709 + 0.702773I$ $a = 1.34473 + 0.62320I$ $b = -1.070680 + 0.328745I$	$4.57020 - 2.91940I$	0
$u = 0.880709 - 0.702773I$ $a = 1.34473 - 0.62320I$ $b = -1.070680 - 0.328745I$	$4.57020 + 2.91940I$	0
$u = -0.639370 + 0.580078I$ $a = -1.55493 + 1.89990I$ $b = 0.478663 - 0.967647I$	$-0.59318 - 5.24593I$	0
$u = -0.639370 - 0.580078I$ $a = -1.55493 - 1.89990I$ $b = 0.478663 + 0.967647I$	$-0.59318 + 5.24593I$	0
$u = -0.991748 + 0.576448I$ $a = 2.80809 - 0.23504I$ $b = -0.565770 - 1.038220I$	$-1.68086 + 9.89233I$	0
$u = -0.991748 - 0.576448I$ $a = 2.80809 + 0.23504I$ $b = -0.565770 + 1.038220I$	$-1.68086 - 9.89233I$	0
$u = 1.15171$ $a = 0.872755$ $b = -0.557285$	-5.43173	0
$u = 1.116650 + 0.288251I$ $a = -0.551334 + 1.263380I$ $b = 0.009952 + 0.320767I$	$-1.03953 - 5.47135I$	0
$u = 1.116650 - 0.288251I$ $a = -0.551334 - 1.263380I$ $b = 0.009952 - 0.320767I$	$-1.03953 + 5.47135I$	0
$u = 0.842566 + 0.055109I$ $a = -0.43533 - 1.72832I$ $b = -0.341428 - 1.140430I$	$-3.91290 + 2.72338I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.842566 - 0.055109I$ $a = -0.43533 + 1.72832I$ $b = -0.341428 + 1.140430I$	$-3.91290 - 2.72338I$	0
$u = -1.137590 + 0.235343I$ $a = -1.22592 + 0.74369I$ $b = 0.167501 + 1.235820I$	$-6.05567 - 2.92910I$	0
$u = -1.137590 - 0.235343I$ $a = -1.22592 - 0.74369I$ $b = 0.167501 - 1.235820I$	$-6.05567 + 2.92910I$	0
$u = -0.948270 + 0.671042I$ $a = -2.00805 + 0.33990I$ $b = 0.75652 + 1.30385I$	$1.42242 + 9.08759I$	0
$u = -0.948270 - 0.671042I$ $a = -2.00805 - 0.33990I$ $b = 0.75652 - 1.30385I$	$1.42242 - 9.08759I$	0
$u = 0.948770 + 0.671579I$ $a = 0.447129 + 0.925716I$ $b = -0.676867 - 0.396420I$	$2.38838 - 3.60572I$	0
$u = 0.948770 - 0.671579I$ $a = 0.447129 - 0.925716I$ $b = -0.676867 + 0.396420I$	$2.38838 + 3.60572I$	0
$u = 1.121990 + 0.364900I$ $a = -0.27592 - 1.50625I$ $b = 0.447760 - 0.992496I$	$-4.54531 - 5.71755I$	0
$u = 1.121990 - 0.364900I$ $a = -0.27592 + 1.50625I$ $b = 0.447760 + 0.992496I$	$-4.54531 + 5.71755I$	0
$u = 0.639027 + 1.000420I$ $a = 1.242290 - 0.373765I$ $b = -0.632031 + 0.914157I$	$4.58793 - 8.11613I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.639027 - 1.000420I$ $a = 1.242290 + 0.373765I$ $b = -0.632031 - 0.914157I$	$4.58793 + 8.11613I$	0
$u = 1.055660 + 0.555609I$ $a = 0.986123 + 0.387552I$ $b = -0.05146 + 1.46074I$	$-4.01170 - 10.05950I$	0
$u = 1.055660 - 0.555609I$ $a = 0.986123 - 0.387552I$ $b = -0.05146 - 1.46074I$	$-4.01170 + 10.05950I$	0
$u = -0.993474 + 0.666991I$ $a = 2.02429 - 0.50756I$ $b = -0.533965 - 1.230380I$	$0.00033 + 7.78187I$	0
$u = -0.993474 - 0.666991I$ $a = 2.02429 + 0.50756I$ $b = -0.533965 + 1.230380I$	$0.00033 - 7.78187I$	0
$u = 0.807859 + 0.884061I$ $a = -1.293630 + 0.452149I$ $b = 0.498444 - 0.759435I$	$2.71484 - 1.73531I$	0
$u = 0.807859 - 0.884061I$ $a = -1.293630 - 0.452149I$ $b = 0.498444 + 0.759435I$	$2.71484 + 1.73531I$	0
$u = -0.706766 + 0.354686I$ $a = -0.282796 - 0.622551I$ $b = -0.524063 + 0.052177I$	$-0.798629 + 0.012049I$	0
$u = -0.706766 - 0.354686I$ $a = -0.282796 + 0.622551I$ $b = -0.524063 - 0.052177I$	$-0.798629 - 0.012049I$	0
$u = -1.110330 + 0.484386I$ $a = -1.112330 + 0.462518I$ $b = -0.294361 + 1.037930I$	$-3.47695 + 3.46248I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.110330-0.484386I$ $a=-1.112330-0.462518I$ $b=-0.294361-1.037930I$	$-3.47695-3.46248I$	0
$u=1.211880+0.061782I$ $a=-0.476042+0.600916I$ $b=0.671000+0.365578I$	$-1.23772-5.74341I$	0
$u=1.211880-0.061782I$ $a=-0.476042-0.600916I$ $b=0.671000-0.365578I$	$-1.23772+5.74341I$	0
$u=0.106543+0.761246I$ $a=-0.792451+0.559262I$ $b=0.013347-1.023550I$	$-4.27716+1.18904I$	0
$u=0.106543-0.761246I$ $a=-0.792451-0.559262I$ $b=0.013347+1.023550I$	$-4.27716-1.18904I$	0
$u=0.913187+0.827058I$ $a=0.333766+0.974109I$ $b=-0.321105-0.731793I$	$2.41371-4.51701I$	0
$u=0.913187-0.827058I$ $a=0.333766-0.974109I$ $b=-0.321105+0.731793I$	$2.41371+4.51701I$	0
$u=1.122340+0.517563I$ $a=-0.585144-0.582633I$ $b=0.005654-1.207420I$	$-7.07290-5.73501I$	0
$u=1.122340-0.517563I$ $a=-0.585144+0.582633I$ $b=0.005654+1.207420I$	$-7.07290+5.73501I$	0
$u=-1.142660+0.480684I$ $a=0.991446-0.372542I$ $b=0.407802-0.786236I$	$-3.76575+2.18592I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.142660-0.480684I$ $a=\ \ 0.991446+0.372542I$ $b=\ \ 0.407802+0.786236I$	$-3.76575-2.18592I$	0
$u=\ \ 1.048440+0.669478I$ $a=-0.157000-1.014550I$ $b=\ \ 0.820539+0.548469I$	$6.23300-6.84752I$	0
$u=\ \ 1.048440-0.669478I$ $a=-0.157000+1.014550I$ $b=\ \ 0.820539-0.548469I$	$6.23300+6.84752I$	0
$u=-1.057340+0.665573I$ $a=\ \ 1.97801-0.79727I$ $b=-0.562818-1.051300I$	$0.51473+8.33328I$	0
$u=-1.057340-0.665573I$ $a=\ \ 1.97801+0.79727I$ $b=-0.562818+1.051300I$	$0.51473-8.33328I$	0
$u=-1.095860+0.627858I$ $a=-1.97338+1.14086I$ $b=\ \ 0.658073+1.076560I$	$4.62438+12.39440I$	0
$u=-1.095860-0.627858I$ $a=-1.97338-1.14086I$ $b=\ \ 0.658073-1.076560I$	$4.62438-12.39440I$	0
$u=-0.140721+0.720089I$ $a=\ \ 0.182316+0.104872I$ $b=-0.558431-0.851273I$	$-0.87087+2.23864I$	0
$u=-0.140721-0.720089I$ $a=\ \ 0.182316-0.104872I$ $b=-0.558431+0.851273I$	$-0.87087-2.23864I$	0
$u=-1.102930+0.679166I$ $a=-0.562620+0.951998I$ $b=\ \ 1.035360-0.490369I$	$3.55762+13.43040I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.102930-0.679166I$ $a=-0.562620-0.951998I$ $b=\ \ 1.035360+0.490369I$	$3.55762-13.43040I$	0
$u=-1.112230+0.676396I$ $a=\ \ 0.589980-0.830670I$ $b=-0.876411+0.545244I$	$-0.66666+7.55235I$	0
$u=-1.112230-0.676396I$ $a=\ \ 0.589980+0.830670I$ $b=-0.876411-0.545244I$	$-0.66666-7.55235I$	0
$u=-1.151800+0.621427I$ $a=-0.354074+0.613260I$ $b=\ \ 0.822266-0.822898I$	$4.15465+1.33498I$	0
$u=-1.151800-0.621427I$ $a=-0.354074-0.613260I$ $b=\ \ 0.822266+0.822898I$	$4.15465-1.33498I$	0
$u=-1.275870+0.297568I$ $a=\ \ 1.008550-0.654374I$ $b=-0.245337-1.054360I$	$-8.61445+2.72790I$	0
$u=-1.275870-0.297568I$ $a=\ \ 1.008550+0.654374I$ $b=-0.245337+1.054360I$	$-8.61445-2.72790I$	0
$u=-0.228727+0.640057I$ $a=-0.314354-0.294683I$ $b=\ \ 0.371470+1.033300I$	$-0.966729+0.859390I$	$-5.92499+0.I$
$u=-0.228727-0.640057I$ $a=-0.314354+0.294683I$ $b=\ \ 0.371470-1.033300I$	$-0.966729-0.859390I$	$-5.92499+0.I$
$u=-1.134690+0.716778I$ $a=-1.57546+0.75755I$ $b=\ \ 0.568922+0.878250I$	$3.09471+2.98427I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.134690-0.716778I$ $a=-1.57546-0.75755I$ $b=\ \ 0.568922-0.878250I$	$3.09471-2.98427I$	0
$u=\ \ 1.155860+0.686217I$ $a=-1.91337-0.66981I$ $b=\ \ 0.718805-1.172310I$	$1.4255-19.7547I$	0
$u=\ \ 1.155860-0.686217I$ $a=-1.91337+0.66981I$ $b=\ \ 0.718805+1.172310I$	$1.4255+19.7547I$	0
$u=\ \ 1.207910+0.591732I$ $a=-1.61200-0.68765I$ $b=\ \ 0.769951-0.938293I$	$3.78528-7.29732I$	0
$u=\ \ 1.207910-0.591732I$ $a=-1.61200+0.68765I$ $b=\ \ 0.769951+0.938293I$	$3.78528+7.29732I$	0
$u=-1.352950+0.028199I$ $a=-0.380214-0.665078I$ $b=\ \ 0.598993-1.083700I$	$-3.19698-10.70540I$	0
$u=-1.352950-0.028199I$ $a=-0.380214+0.665078I$ $b=\ \ 0.598993+1.083700I$	$-3.19698+10.70540I$	0
$u=\ \ 1.177610+0.689514I$ $a=\ \ 1.84293+0.57964I$ $b=-0.689134+1.096760I$	$-2.34666-13.36180I$	0
$u=\ \ 1.177610-0.689514I$ $a=\ \ 1.84293-0.57964I$ $b=-0.689134-1.096760I$	$-2.34666+13.36180I$	0
$u=\ \ 1.085870+0.835827I$ $a=-0.274618-0.628927I$ $b=\ \ 0.554690+0.833924I$	$3.24985+1.50408I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.085870 - 0.835827I$ $a = -0.274618 + 0.628927I$ $b = 0.554690 - 0.833924I$	$3.24985 - 1.50408I$	0
$u = 0.267156 + 0.504152I$ $a = 1.28364 - 0.90605I$ $b = 0.163501 + 1.252410I$	$-2.12105 + 5.62580I$	$-8.69169 - 6.13312I$
$u = 0.267156 - 0.504152I$ $a = 1.28364 + 0.90605I$ $b = 0.163501 - 1.252410I$	$-2.12105 - 5.62580I$	$-8.69169 + 6.13312I$
$u = 0.522745 + 0.193253I$ $a = 1.71293 + 0.63012I$ $b = 0.326924 + 1.280390I$	$-2.07926 + 5.70484I$	$-8.22383 - 7.39573I$
$u = 0.522745 - 0.193253I$ $a = 1.71293 - 0.63012I$ $b = 0.326924 - 1.280390I$	$-2.07926 - 5.70484I$	$-8.22383 + 7.39573I$
$u = -0.534086$ $a = -0.703155$ $b = -0.362371$	-0.932967	-10.1800
$u = 1.47986 + 0.05680I$ $a = 0.858827 + 0.664018I$ $b = -0.533518 + 0.707425I$	$-5.87293 - 1.10773I$	0
$u = 1.47986 - 0.05680I$ $a = 0.858827 - 0.664018I$ $b = -0.533518 - 0.707425I$	$-5.87293 + 1.10773I$	0
$u = -1.48687 + 0.13620I$ $a = 0.476101 + 0.355357I$ $b = -0.562080 + 0.984677I$	$-6.81024 - 3.33209I$	0
$u = -1.48687 - 0.13620I$ $a = 0.476101 - 0.355357I$ $b = -0.562080 - 0.984677I$	$-6.81024 + 3.33209I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.055894 + 0.485909I$ $a = -0.270436 + 1.037490I$ $b = 0.612930 + 0.064066I$	$1.80576 + 2.53513I$	$-2.13143 - 3.97247I$
$u = 0.055894 - 0.485909I$ $a = -0.270436 - 1.037490I$ $b = 0.612930 - 0.064066I$	$1.80576 - 2.53513I$	$-2.13143 + 3.97247I$
$u = -0.176421 + 0.374536I$ $a = -1.151760 + 0.139094I$ $b = 0.288238 + 0.794600I$	$-0.452145 + 1.312550I$	$-4.74769 - 4.89976I$
$u = -0.176421 - 0.374536I$ $a = -1.151760 - 0.139094I$ $b = 0.288238 - 0.794600I$	$-0.452145 - 1.312550I$	$-4.74769 + 4.89976I$

II. $I_2^u = \langle 63182u^{37} + 18834u^{36} + \cdots + 9223b + 14567,\ -1.30 \times 10^5 u^{37} + 1.50 \times 10^5 u^{36} + \cdots + 9223a - 3.97 \times 10^5,\ u^{38} - 12u^{36} + \cdots + 3u + 1\rangle$

(i) Arc colorings

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

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

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

$$a_6 = \begin{pmatrix} 14.1104u^{37} - 16.2414u^{36} + \cdots + 92.0837u + 43.0675 \\ -6.85048u^{37} - 2.04207u^{36} + \cdots + 20.1664u - 1.57942 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -2.94123u^{37} + 0.382305u^{36} + \cdots - 3.13618u - 0.270519 \\ 3.14876u^{37} + 0.790632u^{36} + \cdots - 4.18974u + 2.62149 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 11.4728u^{37} - 3.77263u^{36} + \cdots + 30.8969u + 9.83259 \\ -1.89602u^{37} + 4.91998u^{36} + \cdots - 19.2041u - 12.5248 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.207525u^{37} + 1.17294u^{36} + \cdots - 7.32592u + 2.35097 \\ 3.14876u^{37} + 0.790632u^{36} + \cdots - 4.18974u + 2.62149 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 6.50038u^{37} - 3.41635u^{36} + \cdots + 60.6781u + 26.3995 \\ -0.171311u^{37} + 0.523908u^{36} + \cdots + 3.46341u - 3.79443 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} u^3 \\ u^5 - u^3 + u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 27.6979u^{37} - 5.58506u^{36} + \cdots - 11.7576u + 16.9625 \\ 5.27366u^{37} + 0.894720u^{36} + \cdots - 23.8593u - 9.72840 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.792475u^{37} + 1.17294u^{36} + \cdots - 7.32592u + 2.35097 \\ 3.14876u^{37} + 0.790632u^{36} + \cdots - 3.18974u + 2.62149 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{125590}{9223}u^{37} + \frac{9092}{9223}u^{36} + \cdots - \frac{355732}{9223}u - \frac{476456}{9223}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{38} - 19u^{37} + \cdots - 24u + 1$
c_2	$u^{38} - u^{37} + \cdots + 12u^2 + 1$
c_3	$u^{38} - 12u^{36} + \cdots + 3u + 1$
c_4	$u^{38} + u^{37} + \cdots - 5u + 1$
c_5	$u^{38} - 4u^{37} + \cdots - 2u + 1$
c_6	$u^{38} + u^{37} + \cdots + 12u^2 + 1$
c_7	$u^{38} + 2u^{37} + \cdots + u + 1$
c_8	$u^{38} + 4u^{37} + \cdots + 2u + 1$
c_9	$u^{38} - 24u^{37} + \cdots - 21u + 1$
c_{10}	$u^{38} - 12u^{36} + \cdots - 3u + 1$
c_{11}	$u^{38} - 2u^{37} + \cdots - u + 1$
c_{12}	$u^{38} + 6u^{37} + \cdots - 10u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{38} + 19y^{37} + \cdots + 12y + 1$
c_2, c_6	$y^{38} + 19y^{37} + \cdots + 24y + 1$
c_3, c_{10}	$y^{38} - 24y^{37} + \cdots - 21y + 1$
c_4	$y^{38} + 5y^{37} + \cdots + 19y + 1$
c_5, c_8	$y^{38} + 20y^{37} + \cdots + 36y + 1$
c_7, c_{11}	$y^{38} - 30y^{37} + \cdots - 33y + 1$
c_9	$y^{38} - 28y^{36} + \cdots - 21y + 1$
c_{12}	$y^{38} - 6y^{37} + \cdots - 42y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.991867 + 0.293008I$ $a = 0.088290 + 0.480131I$ $b = -0.341002 + 1.107610I$	$-3.11280 - 7.15236I$	$-11.2847 + 9.0430I$
$u = 0.991867 - 0.293008I$ $a = 0.088290 - 0.480131I$ $b = -0.341002 - 1.107610I$	$-3.11280 + 7.15236I$	$-11.2847 - 9.0430I$
$u = 0.732096 + 0.626334I$ $a = -1.67555 - 0.49709I$ $b = 1.036790 - 0.718459I$	$4.91223 - 4.80789I$	$-3.00260 + 3.79185I$
$u = 0.732096 - 0.626334I$ $a = -1.67555 + 0.49709I$ $b = 1.036790 + 0.718459I$	$4.91223 + 4.80789I$	$-3.00260 - 3.79185I$
$u = -0.748299 + 0.742347I$ $a = 0.711126 - 0.885387I$ $b = -0.582385 + 1.100190I$	$0.62663 - 3.36395I$	$-9.20426 + 4.94587I$
$u = -0.748299 - 0.742347I$ $a = 0.711126 + 0.885387I$ $b = -0.582385 - 1.100190I$	$0.62663 + 3.36395I$	$-9.20426 - 4.94587I$
$u = 0.839841 + 0.293635I$ $a = 1.06189 + 1.73136I$ $b = 0.358348 + 1.192970I$	$-2.56301 + 4.67338I$	$-10.21931 - 3.08914I$
$u = 0.839841 - 0.293635I$ $a = 1.06189 - 1.73136I$ $b = 0.358348 - 1.192970I$	$-2.56301 - 4.67338I$	$-10.21931 + 3.08914I$
$u = -1.075490 + 0.300288I$ $a = -0.14453 + 2.09621I$ $b = -0.205733 + 0.743835I$	$-1.56441 + 4.82049I$	$-14.5664 - 2.6540I$
$u = -1.075490 - 0.300288I$ $a = -0.14453 - 2.09621I$ $b = -0.205733 - 0.743835I$	$-1.56441 - 4.82049I$	$-14.5664 + 2.6540I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.854395 + 0.767581I$ $a = -0.682159 - 1.047860I$ $b = 0.281279 + 0.516482I$	$2.84860 - 4.96095I$	$-2.01482 + 8.52252I$
$u = 0.854395 - 0.767581I$ $a = -0.682159 + 1.047860I$ $b = 0.281279 - 0.516482I$	$2.84860 + 4.96095I$	$-2.01482 - 8.52252I$
$u = 1.075450 + 0.417540I$ $a = -0.16590 - 1.61326I$ $b = 0.290951 - 1.004320I$	$-5.01160 - 4.75346I$	$-15.3943 + 3.4825I$
$u = 1.075450 - 0.417540I$ $a = -0.16590 + 1.61326I$ $b = 0.290951 + 1.004320I$	$-5.01160 + 4.75346I$	$-15.3943 - 3.4825I$
$u = -0.943617 + 0.669429I$ $a = -2.23938 + 0.34377I$ $b = 0.552077 + 1.202540I$	$0.03099 + 8.74330I$	$-8.91907 - 10.84509I$
$u = -0.943617 - 0.669429I$ $a = -2.23938 - 0.34377I$ $b = 0.552077 - 1.202540I$	$0.03099 - 8.74330I$	$-8.91907 + 10.84509I$
$u = -0.686929 + 0.483998I$ $a = -0.62902 + 1.50618I$ $b = 1.027270 - 0.964833I$	$4.24690 - 2.58803I$	$-2.22978 + 7.46639I$
$u = -0.686929 - 0.483998I$ $a = -0.62902 - 1.50618I$ $b = 1.027270 + 0.964833I$	$4.24690 + 2.58803I$	$-2.22978 - 7.46639I$
$u = 0.895125 + 0.796856I$ $a = 1.375030 - 0.178060I$ $b = -0.393497 + 0.543408I$	$2.72633 - 0.91164I$	$-6.33413 - 3.56727I$
$u = 0.895125 - 0.796856I$ $a = 1.375030 + 0.178060I$ $b = -0.393497 - 0.543408I$	$2.72633 + 0.91164I$	$-6.33413 + 3.56727I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.068930+0.542210I$ $a=\ 1.82807-0.68045I$ $b=-0.868761-1.014880I$	$2.90354+6.79041I$	$-10.77255-7.64968I$
$u=-1.068930-0.542210I$ $a=\ 1.82807+0.68045I$ $b=-0.868761+1.014880I$	$2.90354-6.79041I$	$-10.77255+7.64968I$
$u=-1.104200+0.482481I$ $a=\ 1.41930-0.31782I$ $b=\ 0.256385-0.879117I$	$-4.49779+2.49920I$	$-17.5876-2.3366I$
$u=-1.104200-0.482481I$ $a=\ 1.41930+0.31782I$ $b=\ 0.256385+0.879117I$	$-4.49779-2.49920I$	$-17.5876+2.3366I$
$u=\ 1.008320+0.675509I$ $a=\ 0.585134+0.669247I$ $b=-0.868472-0.629081I$	$4.02350-0.28612I$	$-5.68627+0.I$
$u=\ 1.008320-0.675509I$ $a=\ 0.585134-0.669247I$ $b=-0.868472+0.629081I$	$4.02350+0.28612I$	$-5.68627+0.I$
$u=-0.750582+0.224491I$ $a=\ 2.48091+0.03823I$ $b=\ 0.130888+0.676207I$	$-0.27120-2.53382I$	$-11.47078+5.16775I$
$u=-0.750582-0.224491I$ $a=\ 2.48091-0.03823I$ $b=\ 0.130888-0.676207I$	$-0.27120+2.53382I$	$-11.47078-5.16775I$
$u=\ 0.697328+0.208539I$ $a=\ 0.39805-2.20775I$ $b=-0.387499-1.077190I$	$-3.23941+1.85645I$	$-10.13432-0.54316I$
$u=\ 0.697328-0.208539I$ $a=\ 0.39805+2.20775I$ $b=-0.387499+1.077190I$	$-3.23941-1.85645I$	$-10.13432+0.54316I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.188715+0.580646I$ $a=-0.315921+0.452263I$ $b=-0.386853-0.873194I$	$-2.02228+1.65299I$	$-11.55346-2.70930I$
$u=-0.188715-0.580646I$ $a=-0.315921-0.452263I$ $b=-0.386853+0.873194I$	$-2.02228-1.65299I$	$-11.55346+2.70930I$
$u=1.400070+0.020540I$ $a=-0.511954+0.412824I$ $b=0.492777+0.991292I$	$-6.99257+2.83923I$	0
$u=1.400070-0.020540I$ $a=-0.511954-0.412824I$ $b=0.492777-0.991292I$	$-6.99257-2.83923I$	0
$u=-1.43299+0.02985I$ $a=-0.910284+0.776573I$ $b=0.494779+0.709703I$	$-6.02241+1.20982I$	0
$u=-1.43299-0.02985I$ $a=-0.910284-0.776573I$ $b=0.494779-0.709703I$	$-6.02241-1.20982I$	0
$u=-0.494736+0.110162I$ $a=-1.17311+1.64447I$ $b=-0.387344-0.683093I$	$-1.82565+1.31247I$	$-12.61929-3.30037I$
$u=-0.494736-0.110162I$ $a=-1.17311-1.64447I$ $b=-0.387344+0.683093I$	$-1.82565-1.31247I$	$-12.61929+3.30037I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{38}-19u^{37}+\cdots-24u+1)$ $\cdot(u^{154}+64u^{153}+\cdots+54112666u+1857769)$
c_2	$(u^{38}-u^{37}+\cdots+12u^2+1)(u^{154}-2u^{153}+\cdots+3074u+1363)$
c_3	$(u^{38}-12u^{36}+\cdots+3u+1)(u^{154}-u^{153}+\cdots+171u-361)$
c_4	$(u^{38}+u^{37}+\cdots-5u+1)$ $\cdot(u^{154}-6u^{153}+\cdots+28566941u+26372777)$
c_5	$(u^{38}-4u^{37}+\cdots-2u+1)(u^{154}-3u^{153}+\cdots+4572u+4921)$
c_6	$(u^{38}+u^{37}+\cdots+12u^2+1)(u^{154}-2u^{153}+\cdots+3074u+1363)$
c_7	$(u^{38}+2u^{37}+\cdots+u+1)(u^{154}+3u^{153}+\cdots-60545u-9307)$
c_8	$(u^{38}+4u^{37}+\cdots+2u+1)(u^{154}-3u^{153}+\cdots+4572u+4921)$
c_9	$(u^{38}-24u^{37}+\cdots-21u+1)$ $\cdot(u^{154}+71u^{153}+\cdots+2567071u+130321)$
c_{10}	$(u^{38}-12u^{36}+\cdots-3u+1)(u^{154}-u^{153}+\cdots+171u-361)$
c_{11}	$(u^{38}-2u^{37}+\cdots-u+1)(u^{154}+3u^{153}+\cdots-60545u-9307)$
c_{12}	$(u^{38}+6u^{37}+\cdots-10u+1)(u^{154}-3u^{153}+\cdots-9312u-521)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{38}+19y^{37}+\cdots+12y+1)$ $\cdot(y^{154}+72y^{153}+\cdots-893114824048786y+3451305657361)$
c_2, c_6	$(y^{38}+19y^{37}+\cdots+24y+1)$ $\cdot(y^{154}+64y^{153}+\cdots+54112666y+1857769)$
c_3, c_{10}	$(y^{38}-24y^{37}+\cdots-21y+1)$ $\cdot(y^{154}-71y^{153}+\cdots-2567071y+130321)$
c_4	$(y^{38}+5y^{37}+\cdots+19y+1)$ $\cdot(y^{154}+46y^{153}+\cdots+19716884500334309y+695523366691729)$
c_5, c_8	$(y^{38}+20y^{37}+\cdots+36y+1)$ $\cdot(y^{154}+93y^{153}+\cdots+417233130y+24216241)$
c_7, c_{11}	$(y^{38}-30y^{37}+\cdots-33y+1)$ $\cdot(y^{154}-89y^{153}+\cdots-3771070879y+86620249)$
c_9	$(y^{38}-28y^{36}+\cdots-21y+1)$ $\cdot(y^{154}+45y^{153}+\cdots-127131132883y+16983563041)$
c_{12}	$(y^{38}-6y^{37}+\cdots-42y+1)$ $\cdot(y^{154}+11y^{153}+\cdots-91631584y+271441)$