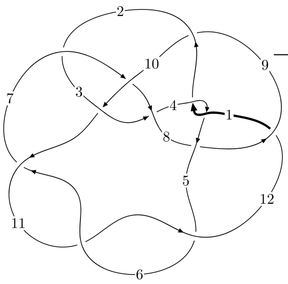
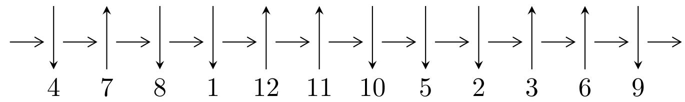
$12a_{1043}$ $(K12a_{1043})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 309279332727u^{39} - 6570519786366u^{38} + \cdots + 254496163384b - 304514848348160, \\
& -446066672385u^{39} + 9504187459743u^{38} + \cdots + 254496163384a + 483336474422784, \\
& 3u^{40} - 66u^{39} + \cdots - 43008u + 2048\rangle \\
I_2^u = \langle & 1.99934 \times 10^{105}a^{21}u^3 + 1.76754 \times 10^{105}a^{20}u^3 + \cdots + 2.92106 \times 10^{102}a + 2.33669 \times 10^{103}, \\
& a^{21}u^3 - 5a^{20}u^3 + \cdots + 24254a - 4243,\ u^4 + u^3 + 3u^2 + 2u + 1\rangle \\
I_3^u = \langle & 1279125u^{24} - 1287228u^{23} + \cdots + 965461b - 3643883, \\
& 10931649u^{24} + 12210774u^{23} + \cdots + 965461a - 9081154,\ 3u^{25} + 3u^{24} + \cdots - 3u + 1\rangle
\end{aligned}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 153 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. $\boldsymbol{I_1^u = \langle 3.09 \times 10^{11} u^{39} - 6.57 \times 10^{12} u^{38} + \cdots + 2.54 \times 10^{10} b - 3.05 \times 10^{14},\ -4.46 \times 10^{11} u^{39} + 9.50 \times 10^{12} u^{38} + \cdots + 2.54 \times 10^{10} a + 4.83 \times 10^{14},\ 3u^{40} - 66u^{39} + \cdots - 43008u + 2048\rangle}$

(i) Arc colorings

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 17.5274u^{39} - 373.451u^{38} + \cdots + 369493.u - 18991.9 \\ -12.1526u^{39} + 258.178u^{38} + \cdots - 232282.u + 11965.4 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} 15.7231u^{39} - 330.923u^{38} + \cdots + 230269.u - 11844.6 \\ -14.9846u^{39} + 317.152u^{38} + \cdots - 213560.u + 10733.6 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 17.7712u^{39} - 381.885u^{38} + \cdots + 379671.u - 19416.9 \\ 3.42698u^{39} - 69.4386u^{38} + \cdots - 31264.6u + 1902.33 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1.54086u^{39} - 32.5131u^{38} + \cdots + 7256.97u - 270.009 \\ 5.16740u^{39} - 111.458u^{38} + \cdots + 131235.u - 6838.08 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} 5.37483u^{39} - 115.274u^{38} + \cdots + 137212.u - 7026.50 \\ -12.1526u^{39} + 258.178u^{38} + \cdots - 232282.u + 11965.4 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 11.4025u^{39} - 244.818u^{38} + \cdots + 259388.u - 13416.8 \\ 1.38575u^{39} - 29.6174u^{38} + \cdots + 21819.7u - 1051.89 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$
$$a_7 = \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 16.5400u^{39} - 352.658u^{38} + \cdots + 288678.u - 14393.4 \\ -1.36215u^{39} + 27.8518u^{38} + \cdots - 32059.5u + 1831.54 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= \frac{10816413693}{6362404096}u^{39} - \frac{115564318683}{3181202048}u^{38} + \cdots + \frac{489218830366}{24853141}u - \frac{20767219470}{24853141}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$3(3u^{40} - 63u^{39} + \cdots - 4480u + 256)$
c_2, c_{10}	$u^{40} + 4u^{38} + \cdots - 3u + 3$
c_3, c_9	$u^{40} - 3u^{39} + \cdots + 10u + 25$
c_5, c_6, c_{11}	$3(3u^{40} - 66u^{39} + \cdots - 43008u + 2048)$
c_7	$3(3u^{40} - 90u^{39} + \cdots - 96u + 16)$
c_8, c_{12}	$u^{40} + u^{39} + \cdots + 36u + 9$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$9(9y^{40} + 207y^{39} + \cdots + 876544y + 65536)$
c_2, c_{10}	$y^{40} + 8y^{39} + \cdots - 63y + 9$
c_3, c_9	$y^{40} - 19y^{39} + \cdots - 1150y + 625$
c_5, c_6, c_{11}	$9(9y^{40} + 306y^{39} + \cdots + 2097152y + 4194304)$
c_7	$9(9y^{40} - 36y^{39} + \cdots - 12928y + 256)$
c_8, c_{12}	$y^{40} + y^{39} + \cdots + 324y + 81$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.430076 + 0.939129I$ $a = 0.709951 - 0.050908I$ $b = -0.353142 - 0.644841I$	$2.91207 + 3.15877I$	0
$u = 0.430076 - 0.939129I$ $a = 0.709951 + 0.050908I$ $b = -0.353142 + 0.644841I$	$2.91207 - 3.15877I$	0
$u = 0.231231 + 0.892892I$ $a = -0.389877 - 0.824893I$ $b = -0.646388 + 0.538859I$	$-0.74157 + 1.76866I$	0
$u = 0.231231 - 0.892892I$ $a = -0.389877 + 0.824893I$ $b = -0.646388 - 0.538859I$	$-0.74157 - 1.76866I$	0
$u = 0.797794 + 0.829732I$ $a = 0.079070 + 1.281020I$ $b = 0.99982 - 1.08760I$	$-0.4120 + 15.0532I$	0
$u = 0.797794 - 0.829732I$ $a = 0.079070 - 1.281020I$ $b = 0.99982 + 1.08760I$	$-0.4120 - 15.0532I$	0
$u = 1.143770 + 0.218983I$ $a = 0.669280 + 0.663411I$ $b = -0.620227 - 0.905352I$	$1.46137 - 8.89771I$	0
$u = 1.143770 - 0.218983I$ $a = 0.669280 - 0.663411I$ $b = -0.620227 + 0.905352I$	$1.46137 + 8.89771I$	0
$u = 1.061750 + 0.531482I$ $a = -0.592784 - 0.312411I$ $b = 0.463345 + 0.646754I$	$-0.374138 + 0.723530I$	0
$u = 1.061750 - 0.531482I$ $a = -0.592784 + 0.312411I$ $b = 0.463345 - 0.646754I$	$-0.374138 - 0.723530I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.366980 + 1.149690I$ $a = -0.587719 - 1.101030I$ $b = -1.05016 + 1.07975I$	$1.86448 + 4.61004I$	0
$u = 0.366980 - 1.149690I$ $a = -0.587719 + 1.101030I$ $b = -1.05016 - 1.07975I$	$1.86448 - 4.61004I$	0
$u = 0.962991 + 0.729062I$ $a = 0.057833 - 1.141700I$ $b = -0.888065 + 1.057290I$	$-0.88372 + 5.83229I$	0
$u = 0.962991 - 0.729062I$ $a = 0.057833 + 1.141700I$ $b = -0.888065 - 1.057290I$	$-0.88372 - 5.83229I$	0
$u = 0.895035 + 0.886441I$ $a = -0.165708 + 0.723991I$ $b = 0.790089 - 0.501107I$	$-4.31918 + 8.60646I$	0
$u = 0.895035 - 0.886441I$ $a = -0.165708 - 0.723991I$ $b = 0.790089 + 0.501107I$	$-4.31918 - 8.60646I$	0
$u = 0.714926 + 0.070491I$ $a = -0.80903 + 1.42994I$ $b = 0.679194 - 0.965270I$	$5.53685 + 0.79423I$	0
$u = 0.714926 - 0.070491I$ $a = -0.80903 - 1.42994I$ $b = 0.679194 + 0.965270I$	$5.53685 - 0.79423I$	0
$u = 0.434361 + 0.523139I$ $a = -0.45056 - 1.78531I$ $b = -0.738261 + 1.011170I$	$1.76895 + 1.27338I$	$0. - 4.56377I$
$u = 0.434361 - 0.523139I$ $a = -0.45056 + 1.78531I$ $b = -0.738261 - 1.011170I$	$1.76895 - 1.27338I$	$0. + 4.56377I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.519767+0.325027I$ $a = -0.567043-0.806038I$ $b = 0.032746+0.603256I$	$0.90033+1.11286I$	$3.57927-3.43616I$
$u = 0.519767-0.325027I$ $a = -0.567043+0.806038I$ $b = 0.032746-0.603256I$	$0.90033-1.11286I$	$3.57927+3.43616I$
$u = 0.400531+0.362017I$ $a = -1.56564-0.64119I$ $b = 0.394968+0.823605I$	$2.18207+1.75911I$	$3.60232-4.80724I$
$u = 0.400531-0.362017I$ $a = -1.56564+0.64119I$ $b = 0.394968-0.823605I$	$2.18207-1.75911I$	$3.60232+4.80724I$
$u = 0.10737+1.52582I$ $a = 0.394221+0.366834I$ $b = 0.517395-0.640896I$	$-5.33866+3.18854I$	0
$u = 0.10737-1.52582I$ $a = 0.394221-0.366834I$ $b = 0.517395+0.640896I$	$-5.33866-3.18854I$	0
$u = 0.10832+1.54869I$ $a = 0.689279+0.757629I$ $b = 1.09867-1.14955I$	$-5.20346+3.15092I$	0
$u = 0.10832-1.54869I$ $a = 0.689279-0.757629I$ $b = 1.09867+1.14955I$	$-5.20346-3.15092I$	0
$u = 0.25142+1.65145I$ $a = -0.569813-0.870066I$ $b = -1.29361+1.15977I$	$-8.6562+19.0603I$	0
$u = 0.25142-1.65145I$ $a = -0.569813+0.870066I$ $b = -1.29361-1.15977I$	$-8.6562-19.0603I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.29257 + 1.65671I$ $a = 0.538073 + 0.853110I$ $b = 1.25593 - 1.14103I$	$-8.82937 + 10.53240I$	0
$u = 0.29257 - 1.65671I$ $a = 0.538073 - 0.853110I$ $b = 1.25593 + 1.14103I$	$-8.82937 - 10.53240I$	0
$u = 0.26892 + 1.66392I$ $a = -0.295163 - 0.749259I$ $b = -1.167330 + 0.692615I$	$-12.7100 + 12.9921I$	0
$u = 0.26892 - 1.66392I$ $a = -0.295163 + 0.749259I$ $b = -1.167330 - 0.692615I$	$-12.7100 - 12.9921I$	0
$u = 1.38555 + 0.97091I$ $a = 0.086799 - 0.325668I$ $b = -0.436459 + 0.366956I$	$-2.92234 - 0.70874I$	0
$u = 1.38555 - 0.97091I$ $a = 0.086799 + 0.325668I$ $b = -0.436459 - 0.366956I$	$-2.92234 + 0.70874I$	0
$u = 0.29238 + 1.71673I$ $a = 0.277808 + 0.672154I$ $b = 1.072680 - 0.673445I$	$-11.76900 + 4.97311I$	0
$u = 0.29238 - 1.71673I$ $a = 0.277808 - 0.672154I$ $b = 1.072680 + 0.673445I$	$-11.76900 - 4.97311I$	0
$u = 0.33425 + 1.71922I$ $a = -0.008980 - 0.357256I$ $b = -0.611201 + 0.134853I$	$-7.92682 + 6.50746I$	0
$u = 0.33425 - 1.71922I$ $a = -0.008980 + 0.357256I$ $b = -0.611201 - 0.134853I$	$-7.92682 - 6.50746I$	0

II. $\boldsymbol{I_2^u = \langle 2.00 \times 10^{105} a^{21} u^3 + 1.77 \times 10^{105} a^{20} u^3 + \cdots + 2.92 \times 10^{102} a + 2.34 \times 10^{103},\ a^{21} u^3 - 5a^{20} u^3 + \cdots + 24254a - 4243,\ u^4 + u^3 + 3u^2 + 2u + 1 \rangle}$

(i) Arc colorings

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

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} a \\ -78.5727a^{21}u^3 - 69.4631a^{20}u^3 + \cdots - 0.114796a - 0.918302 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -a^2 u \\ -8.74081a^{21}u^3 - 5.12626a^{20}u^3 + \cdots + 0.385900a - 0.158208 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -1.89040a^{21}u^3 + 4.17765a^{20}u^3 + \cdots - 0.411276a + 1.19408 \\ -6.23246a^{21}u^3 - 3.30996a^{20}u^3 + \cdots + 0.0353917a + 0.000856252 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 2.63867a^{21}u^3 + 13.9877a^{20}u^3 + \cdots - 0.685670a + 0.182322 \\ -40.5506a^{21}u^3 + 7.86725a^{20}u^3 + \cdots + 0.957810a - 0.211076 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -78.5727a^{21}u^3 - 69.4631a^{20}u^3 + \cdots + 0.885204a - 0.918302 \\ -78.5727a^{21}u^3 - 69.4631a^{20}u^3 + \cdots - 0.114796a - 0.918302 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -87.9371a^{21}u^3 - 42.3152a^{20}u^3 + \cdots - 0.483802a + 0.569188 \\ -101.333a^{21}u^3 - 79.9473a^{20}u^3 + \cdots - 0.395275a - 0.785595 \end{pmatrix}$$

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

$$a_7 = \begin{pmatrix} u^2 + 1 \\ u^3 + u^2 + 2u + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -57.6236a^{21}u^3 - 64.1783a^{20}u^3 + \cdots + 1.49037a + 0.268510 \\ -22.6994a^{21}u^3 - 62.7768a^{20}u^3 + \cdots - 1.47511a - 0.286750 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 139.745a^{21}u^3 + 269.849a^{20}u^3 + \cdots + 8.18196a - 11.5585$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$(u^{11} + 3u^{10} + \cdots + 2u + 1)^8$
c_2, c_{10}	$u^{88} + 3u^{87} + \cdots + 313760u + 32689$
c_3, c_9	$u^{88} + u^{87} + \cdots + 7015212u + 14269049$
c_5, c_6, c_{11}	$(u^4 + u^3 + 3u^2 + 2u + 1)^{22}$
c_7	$(u^{11} + 5u^{10} + 12u^9 + 15u^8 + 8u^7 - 4u^6 - 8u^5 - 3u^4 + 3u^3 + 3u^2 - 1)^8$
c_8, c_{12}	$u^{88} - u^{87} + \cdots - 584u + 83$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$(y^{11} + 7y^{10} + \cdots - 6y - 1)^8$
c_2, c_{10}	$y^{88} + 35y^{87} + \cdots + 45878166472y + 1068570721$
c_3, c_9	$y^{88} - 41y^{87} + \cdots - 6370049061361272y + 203605759364401$
c_5, c_6, c_{11}	$(y^4 + 5y^3 + 7y^2 + 2y + 1)^{22}$
c_7	$(y^{11} - y^{10} + \cdots + 6y - 1)^8$
c_8, c_{12}	$y^{88} - 21y^{87} + \cdots - 714888y + 6889$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.395123 + 0.506844I$ $a = 0.907790 + 0.226548I$ $b = -0.647304 + 1.109790I$	$3.19680 + 3.58563I$	$3.66733 - 1.31877I$
$u = -0.395123 + 0.506844I$ $a = -0.017246 - 0.753773I$ $b = -1.163050 + 0.611843I$	$-2.23683 + 1.28930I$	$-7.64088 + 4.99207I$
$u = -0.395123 + 0.506844I$ $a = 1.277480 + 0.112709I$ $b = -0.886862 + 0.535701I$	$0.32630 + 4.50932I$	$-7.34372 - 5.11480I$
$u = -0.395123 + 0.506844I$ $a = 0.578173 + 1.190000I$ $b = -0.944476 - 0.408288I$	$-3.81269 - 1.41510I$	$-16.4346 + 4.9087I$
$u = -0.395123 + 0.506844I$ $a = -0.281884 + 0.537705I$ $b = 1.71358 - 1.04898I$	$-1.29627 - 6.63139I$	$-4.6093 + 13.9215I$
$u = -0.395123 + 0.506844I$ $a = -0.72321 - 1.21563I$ $b = 0.189954 - 0.056607I$	$-1.85793 + 0.83268I$	$-7.80908 - 0.15485I$
$u = -0.395123 + 0.506844I$ $a = 0.43939 + 1.37682I$ $b = -0.568100 - 0.987543I$	$-1.85793 - 3.66289I$	$-7.80908 + 9.97234I$
$u = -0.395123 + 0.506844I$ $a = 0.53617 + 1.38915I$ $b = 0.292755 - 1.302630I$	$-2.23683 - 4.11951I$	$-7.64088 + 4.82542I$
$u = -0.395123 + 0.506844I$ $a = 0.40425 - 1.54629I$ $b = 1.31383 + 1.13328I$	$3.19680 - 6.41584I$	$3.66733 + 11.13625I$
$u = -0.395123 + 0.506844I$ $a = -0.40252 - 1.54965I$ $b = 0.831592 + 0.177152I$	$-3.81269 - 1.41510I$	$-16.4346 + 4.9087I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.395123+0.506844I$ $a=-1.50585-0.57585I$ $b=\ \ 0.561889-0.602950I$	$0.32630+4.50932I$	$-7.34372-5.11480I$
$u=-0.395123+0.506844I$ $a=\ \ 0.251194+0.178954I$ $b=-0.901890-0.113767I$	$-1.85793+0.83268I$	$-7.80908-0.15485I$
$u=-0.395123+0.506844I$ $a=\ \ 0.66841-1.64193I$ $b=\ \ 0.871448+0.321314I$	$-1.85793-3.66289I$	$-7.80908+9.97234I$
$u=-0.395123+0.506844I$ $a=-1.81056+0.60810I$ $b=-1.292500-0.105875I$	$-1.29627+3.80118I$	0
$u=-0.395123+0.506844I$ $a=-1.98119+0.26736I$ $b=\ \ 0.473513-0.370593I$	$3.19680+3.58563I$	0
$u=-0.395123+0.506844I$ $a=-1.10659-1.68743I$ $b=-0.407184+1.157940I$	$-1.29627+3.80118I$	0
$u=-0.395123+0.506844I$ $a=-1.86351-0.84193I$ $b=-0.388860-0.289092I$	$-2.23683+1.28930I$	0
$u=-0.395123+0.506844I$ $a=\ \ 0.08448+2.04846I$ $b=-0.924867-1.064220I$	$0.32630-7.33953I$	0
$u=-0.395123+0.506844I$ $a=\ \ 1.87864-0.88694I$ $b=\ \ 0.915937+0.277129I$	$-2.23683-4.11951I$	0
$u=-0.395123+0.506844I$ $a=\ \ 0.42118-2.15310I$ $b=\ \ 1.071630+0.766574I$	$0.32630-7.33953I$	0

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.395123 + 0.506844I$ $a = -0.13382 + 2.69650I$ $b = -0.624000 - 0.815866I$	$3.19680 - 6.41584I$	0
$u = -0.395123 + 0.506844I$ $a = 2.92664 + 1.09934I$ $b = 0.161153 + 0.355331I$	$-1.29627 - 6.63139I$	0
$u = -0.395123 - 0.506844I$ $a = 0.907790 - 0.226548I$ $b = -0.647304 - 1.109790I$	$3.19680 - 3.58563I$	$3.66733 + 1.31877I$
$u = -0.395123 - 0.506844I$ $a = -0.017246 + 0.753773I$ $b = -1.163050 - 0.611843I$	$-2.23683 - 1.28930I$	$-7.64088 - 4.99207I$
$u = -0.395123 - 0.506844I$ $a = 1.277480 - 0.112709I$ $b = -0.886862 - 0.535701I$	$0.32630 - 4.50932I$	$-7.34372 + 5.11480I$
$u = -0.395123 - 0.506844I$ $a = 0.578173 - 1.190000I$ $b = -0.944476 + 0.408288I$	$-3.81269 + 1.41510I$	$-16.4346 - 4.9087I$
$u = -0.395123 - 0.506844I$ $a = -0.281884 - 0.537705I$ $b = 1.71358 + 1.04898I$	$-1.29627 + 6.63139I$	$-4.6093 - 13.9215I$
$u = -0.395123 - 0.506844I$ $a = -0.72321 + 1.21563I$ $b = 0.189954 + 0.056607I$	$-1.85793 - 0.83268I$	$-7.80908 + 0.15485I$
$u = -0.395123 - 0.506844I$ $a = 0.43939 - 1.37682I$ $b = -0.568100 + 0.987543I$	$-1.85793 + 3.66289I$	$-7.80908 - 9.97234I$
$u = -0.395123 - 0.506844I$ $a = 0.53617 - 1.38915I$ $b = 0.292755 + 1.302630I$	$-2.23683 + 4.11951I$	$-7.64088 - 4.82542I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.395123-0.506844I$ $a=\ \ 0.40425+1.54629I$ $b=\ \ 1.31383-1.13328I$	$3.19680+6.41584I$	$3.66733-11.13625I$
$u=-0.395123-0.506844I$ $a=-0.40252+1.54965I$ $b=\ \ 0.831592-0.177152I$	$-3.81269+1.41510I$	$-16.4346-4.9087I$
$u=-0.395123-0.506844I$ $a=-1.50585+0.57585I$ $b=\ \ 0.561889+0.602950I$	$0.32630-4.50932I$	$-7.34372+5.11480I$
$u=-0.395123-0.506844I$ $a=\ \ 0.251194-0.178954I$ $b=-0.901890+0.113767I$	$-1.85793-0.83268I$	$-7.80908+0.15485I$
$u=-0.395123-0.506844I$ $a=\ \ 0.66841+1.64193I$ $b=\ \ 0.871448-0.321314I$	$-1.85793+3.66289I$	$-7.80908-9.97234I$
$u=-0.395123-0.506844I$ $a=-1.81056-0.60810I$ $b=-1.292500+0.105875I$	$-1.29627-3.80118I$	0
$u=-0.395123-0.506844I$ $a=-1.98119-0.26736I$ $b=\ \ 0.473513+0.370593I$	$3.19680-3.58563I$	0
$u=-0.395123-0.506844I$ $a=-1.10659+1.68743I$ $b=-0.407184-1.157940I$	$-1.29627-3.80118I$	0
$u=-0.395123-0.506844I$ $a=-1.86351+0.84193I$ $b=-0.388860+0.289092I$	$-2.23683-1.28930I$	0
$u=-0.395123-0.506844I$ $a=\ \ 0.08448-2.04846I$ $b=-0.924867+1.064220I$	$0.32630+7.33953I$	0

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.395123-0.506844I$ $a=\ \ 1.87864+0.88694I$ $b=\ \ 0.915937-0.277129I$	$-2.23683+4.11951I$	0
$u=-0.395123-0.506844I$ $a=\ \ 0.42118+2.15310I$ $b=\ \ 1.071630-0.766574I$	$0.32630+7.33953I$	0
$u=-0.395123-0.506844I$ $a=-0.13382-2.69650I$ $b=-0.624000+0.815866I$	$3.19680+6.41584I$	0
$u=-0.395123-0.506844I$ $a=\ \ 2.92664-1.09934I$ $b=\ \ 0.161153-0.355331I$	$-1.29627+6.63139I$	0
$u=-0.10488+1.55249I$ $a=-0.461183+0.892316I$ $b=-1.063630-0.517160I$	$-10.81440-3.16396I$	$-20.0881+2.5648I$
$u=-0.10488+1.55249I$ $a=\ \ 0.495958-0.888062I$ $b=\ \ 1.24404+1.37283I$	$-6.67544-9.08839I$	$-10.9972+12.5883I$
$u=-0.10488+1.55249I$ $a=-0.218137+1.032250I$ $b=-0.442822-0.518019I$	$-8.85968-0.91618I$	$-11.46256-2.49880I$
$u=-0.10488+1.55249I$ $a=-0.938059+0.686154I$ $b=-1.114430-0.398815I$	$-8.85968-5.41175I$	$-11.46256+7.62840I$
$u=-0.10488+1.55249I$ $a=-0.626036+0.515485I$ $b=-1.90563-1.18371I$	$-3.80495-8.16470I$	$0.01385+8.79231I$
$u=-0.10488+1.55249I$ $a=-0.826373+0.857145I$ $b=-1.32669-0.86311I$	$-6.67544-9.08839I$	$-10.9972+12.5883I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.10488+1.55249I$ $a=\ \ 0.207448-0.731849I$ $b=\ \ 0.96687+1.52829I$	$-8.85968-5.41175I$	$-11.46256+7.62840I$
$u=-0.10488+1.55249I$ $a=\ \ 0.285531-0.704398I$ $b=\ \ 1.33695+0.80957I$	$-10.81440-3.16396I$	$-20.0881+2.5648I$
$u=-0.10488+1.55249I$ $a=\ \ 0.690763-0.277309I$ $b=\ \ 0.279626-0.077482I$	$-3.80495+1.83677I$	$0.01385-3.66271I$
$u=-0.10488+1.55249I$ $a=\ \ 0.267837+0.681491I$ $b=\ \ 0.96295-1.99576I$	$-8.29802+2.05233I$	$-8.26277-6.44798I$
$u=-0.10488+1.55249I$ $a=\ \ 0.607253+1.124130I$ $b=\ \ 0.352803-0.362834I$	$-9.23857-0.45956I$	$-11.29436+2.64813I$
$u=-0.10488+1.55249I$ $a=-0.035023-0.663384I$ $b=-0.29712+2.09193I$	$-9.23857-5.86837I$	$-11.29436+2.48147I$
$u=-0.10488+1.55249I$ $a=-0.026839+0.644591I$ $b=-0.483773-0.157378I$	$-6.67544+2.76046I$	$-10.99719-7.45875I$
$u=-0.10488+1.55249I$ $a=-1.354220-0.099900I$ $b=-1.033570-0.015201I$	$-9.23857-5.86837I$	$-11.29436+2.48147I$
$u=-0.10488+1.55249I$ $a=\ \ 1.32139+0.53100I$ $b=\ \ 1.086100-0.344342I$	$-8.29802+2.05233I$	$-8.26277-6.44798I$
$u=-0.10488+1.55249I$ $a=\ \ 0.67645-1.27316I$ $b=\ \ 0.734630+1.025980I$	$-3.80495-8.16470I$	$0.+8.79231I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.10488 + 1.55249I$ $a = 0.312972 - 0.306376I$ $b = 1.57967 + 0.44691I$	$-8.85968 - 0.91618I$	$-11.46256 - 2.49880I$
$u = -0.10488 + 1.55249I$ $a = 0.079956 - 0.317012I$ $b = 0.997908 + 0.109270I$	$-6.67544 + 2.76046I$	$-10.99719 - 7.45875I$
$u = -0.10488 + 1.55249I$ $a = 0.247931 + 0.210501I$ $b = 1.80889 - 0.82486I$	$-9.23857 - 0.45956I$	$-11.29436 + 2.64813I$
$u = -0.10488 + 1.55249I$ $a = 0.061794 + 0.175940I$ $b = -0.358075 - 1.101490I$	$-3.80495 + 1.83677I$	$0.01385 - 3.66271I$
$u = -0.10488 + 1.55249I$ $a = -0.065207 - 0.143109I$ $b = -2.24387 + 1.80044I$	$-8.29802 - 8.38025I$	$-8.2628 + 11.5776I$
$u = -0.10488 + 1.55249I$ $a = -1.25164 - 1.36078I$ $b = -0.229015 + 0.086225I$	$-8.29802 - 8.38025I$	0
$u = -0.10488 - 1.55249I$ $a = -0.461183 - 0.892316I$ $b = -1.063630 + 0.517160I$	$-10.81440 + 3.16396I$	$-20.0881 - 2.5648I$
$u = -0.10488 - 1.55249I$ $a = 0.495958 + 0.888062I$ $b = 1.24404 - 1.37283I$	$-6.67544 + 9.08839I$	$-10.9972 - 12.5883I$
$u = -0.10488 - 1.55249I$ $a = -0.218137 - 1.032250I$ $b = -0.442822 + 0.518019I$	$-8.85968 + 0.91618I$	$-11.46256 + 2.49880I$
$u = -0.10488 - 1.55249I$ $a = -0.938059 - 0.686154I$ $b = -1.114430 + 0.398815I$	$-8.85968 + 5.41175I$	$-11.46256 - 7.62840I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.10488-1.55249I$ $a=-0.626036-0.515485I$ $b=-1.90563+1.18371I$	$-3.80495+8.16470I$	$0.01385-8.79231I$
$u=-0.10488-1.55249I$ $a=-0.826373-0.857145I$ $b=-1.32669+0.86311I$	$-6.67544+9.08839I$	$-10.9972-12.5883I$
$u=-0.10488-1.55249I$ $a=\ \ 0.207448+0.731849I$ $b=\ \ 0.96687-1.52829I$	$-8.85968+5.41175I$	$-11.46256-7.62840I$
$u=-0.10488-1.55249I$ $a=\ \ 0.285531+0.704398I$ $b=\ \ 1.33695-0.80957I$	$-10.81440+3.16396I$	$-20.0881-2.5648I$
$u=-0.10488-1.55249I$ $a=\ \ 0.690763+0.277309I$ $b=\ \ 0.279626+0.077482I$	$-3.80495-1.83677I$	$0.01385+3.66271I$
$u=-0.10488-1.55249I$ $a=\ \ 0.267837-0.681491I$ $b=\ \ 0.96295+1.99576I$	$-8.29802-2.05233I$	$-8.26277+6.44798I$
$u=-0.10488-1.55249I$ $a=\ \ 0.607253-1.124130I$ $b=\ \ 0.352803+0.362834I$	$-9.23857+0.45956I$	$-11.29436-2.64813I$
$u=-0.10488-1.55249I$ $a=-0.035023+0.663384I$ $b=-0.29712-2.09193I$	$-9.23857+5.86837I$	$-11.29436-2.48147I$
$u=-0.10488-1.55249I$ $a=-0.026839-0.644591I$ $b=-0.483773+0.157378I$	$-6.67544-2.76046I$	$-10.99719+7.45875I$
$u=-0.10488-1.55249I$ $a=-1.354220+0.099900I$ $b=-1.033570+0.015201I$	$-9.23857+5.86837I$	$-11.29436-2.48147I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.10488-1.55249I$ $a=\ \ 1.32139-0.53100I$ $b=\ \ 1.086100+0.344342I$	$-8.29802-2.05233I$	$-8.26277+6.44798I$
$u=-0.10488-1.55249I$ $a=\ \ 0.67645+1.27316I$ $b=\ \ 0.734630-1.025980I$	$-3.80495+8.16470I$	$0.-8.79231I$
$u=-0.10488-1.55249I$ $a=\ \ 0.312972+0.306376I$ $b=\ \ 1.57967-0.44691I$	$-8.85968+0.91618I$	$-11.46256+2.49880I$
$u=-0.10488-1.55249I$ $a=\ \ 0.079956+0.317012I$ $b=\ \ 0.997908-0.109270I$	$-6.67544-2.76046I$	$-10.99719+7.45875I$
$u=-0.10488-1.55249I$ $a=\ \ 0.247931-0.210501I$ $b=\ \ 1.80889+0.82486I$	$-9.23857+0.45956I$	$-11.29436-2.64813I$
$u=-0.10488-1.55249I$ $a=\ \ 0.061794-0.175940I$ $b=-0.358075+1.101490I$	$-3.80495-1.83677I$	$0.01385+3.66271I$
$u=-0.10488-1.55249I$ $a=-0.065207+0.143109I$ $b=-2.24387-1.80044I$	$-8.29802+8.38025I$	$-8.2628-11.5776I$
$u=-0.10488-1.55249I$ $a=-1.25164+1.36078I$ $b=-0.229015-0.086225I$	$-8.29802+8.38025I$	0

III.

$\boldsymbol{I^u_3 = \langle 1.28\times 10^6 u^{24} - 1.29\times 10^6 u^{23} + \cdots + 9.65\times 10^5 b - 3.64\times 10^6,\ 1.09\times 10^7 u^{24} + 1.22\times 10^7 u^{23} + \cdots + 9.65\times 10^5 a - 9.08\times 10^6,\ 3u^{25} + 3u^{24} + \cdots - 3u + 1\rangle}$

(i) Arc colorings

$$a_5 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_6 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-11.3227u^{24} - 12.6476u^{23} + \cdots - 24.9129u + 9.40603\\-1.32489u^{24} + 1.33328u^{23} + \cdots - 1.91670u + 3.77424\end{pmatrix}$$
$$a_1 = \begin{pmatrix}0.704452u^{24} + 0.00409856u^{23} + \cdots + 7.42560u - 3.81888\\-0.700354u^{24} - 0.804853u^{23} + \cdots - 2.11443u - 0.234817\end{pmatrix}$$
$$a_4 = \begin{pmatrix}1.90570u^{24} + 0.232011u^{23} + \cdots + 3.36279u - 3.03538\\-1.56919u^{24} - 1.80857u^{23} + \cdots - 1.19451u - 0.868684\end{pmatrix}$$
$$a_2 = \begin{pmatrix}-1.33728u^{24} - 3.30659u^{23} + \cdots + 2.81981u - 4.40145\\-1.83443u^{24} - 0.976439u^{23} + \cdots - 3.23603u + 0.156149\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-12.6476u^{24} - 11.3143u^{23} + \cdots - 26.8296u + 13.1803\\-1.32489u^{24} + 1.33328u^{23} + \cdots - 1.91670u + 3.77424\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-2.43776u^{24} - 3.00552u^{23} + \cdots - 3.83884u - 2.32182\\-1.96931u^{24} - 0.702641u^{23} + \cdots - 5.73873u + 0.445761\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}-u\\u^3 + u\end{pmatrix}$$
$$a_7 = \begin{pmatrix}u^2 + 1\\-u^4 - 2u^2\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}-5.83876u^{24} - 1.95916u^{23} + \cdots - 19.7988u + 6.79115\\-0.687315u^{24} + 1.97683u^{23} + \cdots - 2.76064u + 3.16448\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{16337289}{965461}u^{24} + \frac{20341383}{965461}u^{23} + \cdots + \frac{53054017}{965461}u - \frac{16958173}{965461}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$3(3u^{25} - 24u^{24} + \cdots + 8u - 1)$
c_2, c_{10}	$u^{25} + 6u^{23} + \cdots + 3u - 3$
c_3, c_9	$u^{25} + u^{24} + \cdots + 14u - 3$
c_4	$3(3u^{25} + 24u^{24} + \cdots + 8u + 1)$
c_5, c_6	$3(3u^{25} + 3u^{24} + \cdots - 3u + 1)$
c_7	$3(3u^{25} - 33u^{24} + \cdots - 5u^2 + 1)$
c_8, c_{12}	$u^{25} - u^{24} + \cdots + 18u + 9$
c_{11}	$3(3u^{25} - 3u^{24} + \cdots - 3u - 1)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$9(9y^{25} + 144y^{24} + \cdots - 44y - 1)$
c_2, c_{10}	$y^{25} + 12y^{24} + \cdots - 9y - 9$
c_3, c_9	$y^{25} - 11y^{24} + \cdots + 46y - 9$
c_5, c_6, c_{11}	$9(9y^{25} + 261y^{24} + \cdots - 23y - 1)$
c_7	$9(9y^{25} - 27y^{24} + \cdots + 10y - 1)$
c_8, c_{12}	$y^{25} - 7y^{24} + \cdots + 756y - 81$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.139409 + 0.935691I$ $a = 0.84933 - 1.28204I$ $b = 1.08118 + 0.97344I$	$1.33306 - 5.44425I$	$-3.58587 + 7.46892I$
$u = -0.139409 - 0.935691I$ $a = 0.84933 + 1.28204I$ $b = 1.08118 - 0.97344I$	$1.33306 + 5.44425I$	$-3.58587 - 7.46892I$
$u = -1.29971$ $a = -0.393591$ $b = 0.511554$	-2.82749	-24.4960
$u = -0.065043 + 0.681628I$ $a = 0.849488 + 0.907455I$ $b = -0.673799 + 0.520011I$	$2.05503 + 4.77815I$	$-2.21061 - 7.54120I$
$u = -0.065043 - 0.681628I$ $a = 0.849488 - 0.907455I$ $b = -0.673799 - 0.520011I$	$2.05503 - 4.77815I$	$-2.21061 + 7.54120I$
$u = -0.527060 + 0.342003I$ $a = -0.45508 - 1.98170I$ $b = 0.917604 + 0.888839I$	$0.58769 - 6.44489I$	$-3.50337 + 5.24964I$
$u = -0.527060 - 0.342003I$ $a = -0.45508 + 1.98170I$ $b = 0.917604 - 0.888839I$	$0.58769 + 6.44489I$	$-3.50337 - 5.24964I$
$u = -0.07693 + 1.45578I$ $a = -0.140733 + 0.544149I$ $b = -0.781335 - 0.246736I$	$-6.47742 + 1.78174I$	$-8.59786 + 1.29099I$
$u = -0.07693 - 1.45578I$ $a = -0.140733 - 0.544149I$ $b = -0.781335 + 0.246736I$	$-6.47742 - 1.78174I$	$-8.59786 - 1.29099I$
$u = 0.333604 + 0.407699I$ $a = 1.52958 - 0.56643I$ $b = 0.741208 + 0.434646I$	$-2.22833 - 2.22988I$	$-8.23719 + 4.92806I$

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.333604 - 0.407699I$ $a = 1.52958 + 0.56643I$ $b = 0.741208 - 0.434646I$	$-2.22833 + 2.22988I$	$-8.23719 - 4.92806I$
$u = 0.355757 + 0.361090I$ $a = -2.20095 + 0.15407I$ $b = -0.838634 - 0.739932I$	$-1.37213 + 5.75583I$	$-4.99345 - 3.86999I$
$u = 0.355757 - 0.361090I$ $a = -2.20095 - 0.15407I$ $b = -0.838634 + 0.739932I$	$-1.37213 - 5.75583I$	$-4.99345 + 3.86999I$
$u = 0.10906 + 1.50963I$ $a = -0.733282 + 0.691650I$ $b = -1.12411 - 1.03156I$	$-8.40480 - 0.76829I$	$-7.10287 + 0.I$
$u = 0.10906 - 1.50963I$ $a = -0.733282 - 0.691650I$ $b = -1.12411 + 1.03156I$	$-8.40480 + 0.76829I$	$-7.10287 + 0.I$
$u = 0.09232 + 1.53624I$ $a = 0.765943 - 0.674345I$ $b = 1.10667 + 1.11442I$	$-7.96724 + 7.26085I$	$-4.39305 - 3.18345I$
$u = 0.09232 - 1.53624I$ $a = 0.765943 + 0.674345I$ $b = 1.10667 - 1.11442I$	$-7.96724 - 7.26085I$	$-4.39305 + 3.18345I$
$u = -0.11080 + 1.54481I$ $a = -0.657300 + 0.877205I$ $b = -1.28228 - 1.11260I$	$-6.06586 - 8.44559I$	$-3.25508 + 4.03663I$
$u = -0.11080 - 1.54481I$ $a = -0.657300 - 0.877205I$ $b = -1.28228 + 1.11260I$	$-6.06586 + 8.44559I$	$-3.25508 - 4.03663I$
$u = -0.11068 + 1.56442I$ $a = -0.373565 + 0.755507I$ $b = -1.140590 - 0.668030I$	$-9.98771 - 3.11005I$	$-7.23130 + 1.80254I$

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.11068 - 1.56442I$ $a = -0.373565 - 0.755507I$ $b = -1.140590 + 0.668030I$	$-9.98771 + 3.11005I$	$-7.23130 - 1.80254I$
$u = 0.17655 + 1.58755I$ $a = 0.358080 - 0.208144I$ $b = 0.393656 + 0.531720I$	$-7.17425 + 5.89770I$	$-4.52396 - 3.09477I$
$u = 0.17655 - 1.58755I$ $a = 0.358080 + 0.208144I$ $b = 0.393656 - 0.531720I$	$-7.17425 - 5.89770I$	$-4.52396 + 3.09477I$
$u = 0.112488 + 0.335309I$ $a = 1.90528 - 1.87984I$ $b = 0.844648 + 0.427399I$	$-2.23230 - 2.18556I$	$-9.78413 + 4.86470I$
$u = 0.112488 - 0.335309I$ $a = 1.90528 + 1.87984I$ $b = 0.844648 - 0.427399I$	$-2.23230 + 2.18556I$	$-9.78413 - 4.86470I$

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$9(u^{11}+3u^{10}+\cdots+2u+1)^8(3u^{25}-24u^{24}+\cdots+8u-1)$ $\cdot(3u^{40}-63u^{39}+\cdots-4480u+256)$
c_2, c_{10}	$(u^{25}+6u^{23}+\cdots+3u-3)(u^{40}+4u^{38}+\cdots-3u+3)$ $\cdot(u^{88}+3u^{87}+\cdots+313760u+32689)$
c_3, c_9	$(u^{25}+u^{24}+\cdots+14u-3)(u^{40}-3u^{39}+\cdots+10u+25)$ $\cdot(u^{88}+u^{87}+\cdots+7015212u+14269049)$
c_4	$9(u^{11}+3u^{10}+\cdots+2u+1)^8(3u^{25}+24u^{24}+\cdots+8u+1)$ $\cdot(3u^{40}-63u^{39}+\cdots-4480u+256)$
c_5, c_6	$9(u^4+u^3+3u^2+2u+1)^{22}(3u^{25}+3u^{24}+\cdots-3u+1)$ $\cdot(3u^{40}-66u^{39}+\cdots-43008u+2048)$
c_7	$9(u^{11}+5u^{10}+12u^9+15u^8+8u^7-4u^6-8u^5-3u^4+3u^3+3u^2-1)^8$ $\cdot(3u^{25}-33u^{24}+\cdots-5u^2+1)(3u^{40}-90u^{39}+\cdots-96u+16)$
c_8, c_{12}	$(u^{25}-u^{24}+\cdots+18u+9)(u^{40}+u^{39}+\cdots+36u+9)$ $\cdot(u^{88}-u^{87}+\cdots-584u+83)$
c_{11}	$9(u^4+u^3+3u^2+2u+1)^{22}(3u^{25}-3u^{24}+\cdots-3u-1)$ $\cdot(3u^{40}-66u^{39}+\cdots-43008u+2048)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$81(y^{11}+7y^{10}+\cdots-6y-1)^8(9y^{25}+144y^{24}+\cdots-44y-1)$ $\cdot(9y^{40}+207y^{39}+\cdots+876544y+65536)$
c_2, c_{10}	$(y^{25}+12y^{24}+\cdots-9y-9)(y^{40}+8y^{39}+\cdots-63y+9)$ $\cdot(y^{88}+35y^{87}+\cdots+45878166472y+1068570721)$
c_3, c_9	$(y^{25}-11y^{24}+\cdots+46y-9)(y^{40}-19y^{39}+\cdots-1150y+625)$ $\cdot(y^{88}-41y^{87}+\cdots-6370049061361272y+203605759364401)$
c_5, c_6, c_{11}	$81(y^4+5y^3+\cdots+2y+1)^{22}(9y^{25}+261y^{24}+\cdots-23y-1)$ $\cdot(9y^{40}+306y^{39}+\cdots+2097152y+4194304)$
c_7	$81(y^{11}-y^{10}+\cdots+6y-1)^8(9y^{25}-27y^{24}+\cdots+10y-1)$ $\cdot(9y^{40}-36y^{39}+\cdots-12928y+256)$
c_8, c_{12}	$(y^{25}-7y^{24}+\cdots+756y-81)(y^{40}+y^{39}+\cdots+324y+81)$ $\cdot(y^{88}-21y^{87}+\cdots-714888y+6889)$