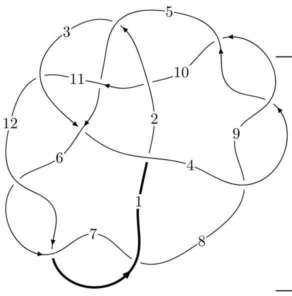
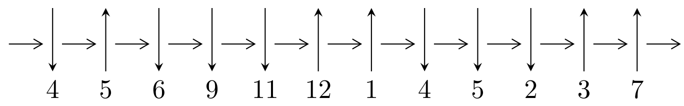
$12n_{0709}$ $(K12n_{0709})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 4.82508 \times 10^{67} u^{41} - 8.04373 \times 10^{66} u^{40} + \cdots + 3.17613 \times 10^{68} b + 7.49719 \times 10^{68}, \\
& 7.68981 \times 10^{68} u^{41} + 6.83382 \times 10^{67} u^{40} + \cdots + 3.17613 \times 10^{68} a + 4.36130 \times 10^{69},\ u^{42} - 5u^{40} + \cdots + 12u - \\
I_2^u = \langle & 2u^{11} + 2u^{10} - 9u^9 - 9u^8 + 17u^7 + 11u^6 - 20u^5 - 5u^4 + 14u^3 + 5u^2 + b - 3u, \\
& 3u^{11} + 4u^{10} - 13u^9 - 19u^8 + 23u^7 + 30u^6 - 27u^5 - 26u^4 + 21u^3 + 22u^2 + a - 5u - 6, \\
& u^{12} + u^{11} - 5u^{10} - 5u^9 + 11u^8 + 8u^7 - 15u^6 - 6u^5 + 13u^4 + 4u^3 - 6u^2 - u + 1 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 54 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. $I_1^u =$
$\langle 4.83\times10^{67}u^{41}-8.04\times10^{66}u^{40}+\cdots+3.18\times10^{68}b+7.50\times10^{68},\ 7.69\times10^{68}u^{41}+6.83\times10^{67}u^{40}+\cdots+3.18\times10^{68}a+4.36\times10^{69},\ u^{42}-5u^{40}+\cdots+12u-1\rangle$

(i) Arc colorings

$$a_5 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-2.42113u^{41}-0.215162u^{40}+\cdots+47.7375u-13.7315\\-0.151917u^{41}+0.0253256u^{40}+\cdots+4.43664u-2.36048\end{pmatrix}$$
$$a_6 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}1.40883u^{41}-0.283645u^{40}+\cdots-31.6002u+11.3295\\0.451792u^{41}-0.229337u^{40}+\cdots+0.897332u+1.83430\end{pmatrix}$$
$$a_7 = \begin{pmatrix}-1.66145u^{41}-0.892224u^{40}+\cdots+72.0897u-18.1638\\0.208120u^{41}-0.395827u^{40}+\cdots+17.3792u-4.31286\end{pmatrix}$$
$$a_2 = \begin{pmatrix}-2.26921u^{41}-0.240488u^{40}+\cdots+43.3008u-11.3710\\-0.151917u^{41}+0.0253256u^{40}+\cdots+4.43664u-2.36048\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}0.699121u^{41}-0.0570474u^{40}+\cdots-24.8728u+7.43404\\0.257913u^{41}+0.00273987u^{40}+\cdots-5.62471u+2.06112\end{pmatrix}$$
$$a_9 = \begin{pmatrix}0.957035u^{41}-0.0543075u^{40}+\cdots-30.4975u+9.49516\\0.257913u^{41}+0.00273987u^{40}+\cdots-5.62471u+2.06112\end{pmatrix}$$
$$a_4 = \begin{pmatrix}-2.53284u^{41}-0.147464u^{40}+\cdots+43.4617u-11.5862\\-0.325011u^{41}+0.129277u^{40}+\cdots+3.51256u-2.29278\end{pmatrix}$$
$$a_1 = \begin{pmatrix}-2.13070u^{41}-0.169775u^{40}+\cdots+38.9427u-12.7081\\-0.812419u^{41}+0.186428u^{40}+\cdots+8.64257u-3.43916\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-0.374567u^{41}+0.0574880u^{40}+\cdots+18.7871u+0.721860\\0.269350u^{41}+0.303079u^{40}+\cdots-12.4553u+2.13098\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.117845u^{41}-0.341047u^{40}+\cdots-3.69676u+5.23841$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{42} - 2u^{41} + \cdots + 7155u + 1759$
c_2	$u^{42} - 20u^{40} + \cdots - 4u + 1$
c_3	$u^{42} - 3u^{40} + \cdots + 36u - 7$
c_4, c_8, c_9	$u^{42} - u^{41} + \cdots + 125u - 43$
c_5	$u^{42} - 5u^{40} + \cdots + 12u - 1$
c_6, c_7, c_{12}	$u^{42} - 2u^{41} + \cdots - 9u + 1$
c_{10}	$u^{42} + u^{41} + \cdots + 17u + 1$
c_{11}	$u^{42} - 2u^{41} + \cdots - 260u - 29$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{42} + 84y^{41} + \cdots - 28548659y + 3094081$
c_2	$y^{42} - 40y^{41} + \cdots - 132y + 1$
c_3	$y^{42} - 6y^{41} + \cdots - 246y + 49$
c_4, c_8, c_9	$y^{42} + 5y^{41} + \cdots + 3123y + 1849$
c_5	$y^{42} - 10y^{41} + \cdots - 102y + 1$
c_6, c_7, c_{12}	$y^{42} - 56y^{41} + \cdots - 185y + 1$
c_{10}	$y^{42} + 41y^{41} + \cdots - 193y + 1$
c_{11}	$y^{42} - 26y^{41} + \cdots - 54028y + 841$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.826491 + 0.442043I$ $a = 0.44718 + 1.76659I$ $b = 0.70153 + 1.70890I$	$7.45710 + 5.86314I$	$-2.65176 - 8.52020I$
$u = -0.826491 - 0.442043I$ $a = 0.44718 - 1.76659I$ $b = 0.70153 - 1.70890I$	$7.45710 - 5.86314I$	$-2.65176 + 8.52020I$
$u = -0.922502$ $a = -1.78773$ $b = -0.148859$	-1.70873	-6.53080
$u = 0.242616 + 0.880583I$ $a = 0.16751 + 1.61694I$ $b = 0.219203 - 0.132487I$	$10.17820 - 3.58420I$	$3.84598 + 2.12866I$
$u = 0.242616 - 0.880583I$ $a = 0.16751 - 1.61694I$ $b = 0.219203 + 0.132487I$	$10.17820 + 3.58420I$	$3.84598 - 2.12866I$
$u = 0.890844 + 0.643047I$ $a = 0.563817 - 1.208620I$ $b = 1.35559 - 0.46608I$	$2.11218 - 2.53038I$	$6.12123 + 0.14610I$
$u = 0.890844 - 0.643047I$ $a = 0.563817 + 1.208620I$ $b = 1.35559 + 0.46608I$	$2.11218 + 2.53038I$	$6.12123 - 0.14610I$
$u = -0.876142$ $a = 0.172308$ $b = -1.12353$	-2.38946	-2.90900
$u = 0.721992 + 0.460484I$ $a = 0.164016 - 1.355880I$ $b = 0.239818 - 1.211100I$	$-0.02917 - 3.92711I$	$-3.97147 + 9.92723I$
$u = 0.721992 - 0.460484I$ $a = 0.164016 + 1.355880I$ $b = 0.239818 + 1.211100I$	$-0.02917 + 3.92711I$	$-3.97147 - 9.92723I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.720687+0.899817I$ $a=\ 0.273465+0.765302I$ $b=\ 1.53565+0.40748I$	$5.72444+3.42674I$	$2.80097-3.58941I$
$u=-0.720687-0.899817I$ $a=\ 0.273465-0.765302I$ $b=\ 1.53565-0.40748I$	$5.72444-3.42674I$	$2.80097+3.58941I$
$u=-0.780727+0.131252I$ $a=\ 0.82386+2.32713I$ $b=\ 1.26635+0.92629I$	$7.74135+4.15125I$	$-0.41061-1.82266I$
$u=-0.780727-0.131252I$ $a=\ 0.82386-2.32713I$ $b=\ 1.26635-0.92629I$	$7.74135-4.15125I$	$-0.41061+1.82266I$
$u=-0.615064+0.357683I$ $a=\ 0.070719+0.713992I$ $b=-0.245314+0.610196I$	$-1.089030+0.732853I$	$-6.79767-2.20104I$
$u=-0.615064-0.357683I$ $a=\ 0.070719-0.713992I$ $b=-0.245314-0.610196I$	$-1.089030-0.732853I$	$-6.79767+2.20104I$
$u=\ 1.30953$ $a=-0.929642$ $b=-0.351451$	-6.86880	-18.9610
$u=-1.083940+0.809437I$ $a=\ 0.675081+1.062750I$ $b=\ 1.284690+0.182998I$	$4.64441+2.89183I$	$1.76368-2.87517I$
$u=-1.083940-0.809437I$ $a=\ 0.675081-1.062750I$ $b=\ 1.284690-0.182998I$	$4.64441-2.89183I$	$1.76368+2.87517I$
$u=\ 0.804703+1.139140I$ $a=\ 0.374165-0.503272I$ $b=\ 1.67797-0.36893I$	$15.2391-4.3076I$	$2.80868+2.57557I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.804703 - 1.139140I$ $a = 0.374165 + 0.503272I$ $b = 1.67797 + 0.36893I$	$15.2391 + 4.3076I$	$2.80868 - 2.57557I$
$u = 1.411490 + 0.009834I$ $a = -0.221337 + 0.166065I$ $b = -0.899307 - 0.199819I$	$5.57535 + 0.53866I$	$0. + 2.21094I$
$u = 1.411490 - 0.009834I$ $a = -0.221337 - 0.166065I$ $b = -0.899307 + 0.199819I$	$5.57535 - 0.53866I$	$0. - 2.21094I$
$u = -0.003662 + 0.550660I$ $a = 1.13441 - 1.56878I$ $b = 0.175353 - 0.047964I$	$1.34218 + 1.37911I$	$2.89590 - 0.80863I$
$u = -0.003662 - 0.550660I$ $a = 1.13441 + 1.56878I$ $b = 0.175353 + 0.047964I$	$1.34218 - 1.37911I$	$2.89590 + 0.80863I$
$u = -0.90754 + 1.17188I$ $a = 0.055593 - 0.788021I$ $b = -1.155080 - 0.321541I$	$1.72011 + 4.36399I$	0
$u = -0.90754 - 1.17188I$ $a = 0.055593 + 0.788021I$ $b = -1.155080 + 0.321541I$	$1.72011 - 4.36399I$	0
$u = 1.10237 + 1.02421I$ $a = -0.255654 + 1.035640I$ $b = -1.41241 + 0.50973I$	$4.99599 - 9.83709I$	0
$u = 1.10237 - 1.02421I$ $a = -0.255654 - 1.035640I$ $b = -1.41241 - 0.50973I$	$4.99599 + 9.83709I$	0
$u = -1.53577$ $a = -0.547612$ $b = -0.588263$	-4.41753	5.34160

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.02878 + 1.16133I$ $a = -0.276463 + 0.398264I$ $b = -1.234350 - 0.070649I$	$5.40084 + 1.95358I$	0
$u = 1.02878 - 1.16133I$ $a = -0.276463 - 0.398264I$ $b = -1.234350 + 0.070649I$	$5.40084 - 1.95358I$	0
$u = 1.24059 + 0.94227I$ $a = 0.677354 - 0.959216I$ $b = 1.305130 - 0.002881I$	$13.8696 - 3.3208I$	0
$u = 1.24059 - 0.94227I$ $a = 0.677354 + 0.959216I$ $b = 1.305130 + 0.002881I$	$13.8696 + 3.3208I$	0
$u = -0.81469 + 1.33843I$ $a = -0.401599 - 0.501693I$ $b = -1.42135 + 0.14198I$	$15.8064 - 4.9457I$	0
$u = -0.81469 - 1.33843I$ $a = -0.401599 + 0.501693I$ $b = -1.42135 - 0.14198I$	$15.8064 + 4.9457I$	0
$u = -1.25187 + 0.99541I$ $a = -0.477673 - 1.039360I$ $b = -1.61618 - 0.53409I$	$14.3267 + 13.2133I$	0
$u = -1.25187 - 0.99541I$ $a = -0.477673 + 1.039360I$ $b = -1.61618 + 0.53409I$	$14.3267 - 13.2133I$	0
$u = 0.332125 + 0.172454I$ $a = -0.91615 - 3.36326I$ $b = 0.882687 - 0.380208I$	$0.97861 - 1.95574I$	$-3.65064 + 3.03665I$
$u = 0.332125 - 0.172454I$ $a = -0.91615 + 3.36326I$ $b = 0.882687 + 0.380208I$	$0.97861 + 1.95574I$	$-3.65064 - 3.03665I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.373759$ $a = 1.40517$ $b = -1.39216$	-3.18526	8.01790
$u = 0.109443$ $a = -8.06908$ $b = -1.71570$	3.71239	4.37580

II.

$\boldsymbol{I_2^u = \langle 2u^{11}+2u^{10}+\cdots+b-3u,\ 3u^{11}+4u^{10}+\cdots+a-6,\ u^{12}+u^{11}+\cdots-u+1\rangle}$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -3u^{11} - 4u^{10} + \cdots + 5u + 6 \\ -2u^{11} - 2u^{10} + \cdots - 5u^2 + 3u \end{pmatrix}$$

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

$$a_{12} = \begin{pmatrix} -3u^{11} - 5u^{10} + \cdots + 9u + 5 \\ 2u^{11} + 2u^{10} + \cdots - u - 3 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -4u^{11} - 6u^{10} + \cdots + 4u + 11 \\ -3u^{11} - 4u^{10} + \cdots - 14u^2 + 3 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -u^{11} - 2u^{10} + \cdots + 2u + 6 \\ -2u^{11} - 2u^{10} + \cdots - 5u^2 + 3u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -5u^{11} - 6u^{10} + \cdots + 14u + 7 \\ -u^{10} - u^9 + 4u^8 + 4u^7 - 7u^6 - 4u^5 + 8u^4 + 2u^3 - 5u^2 - 2u + 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -5u^{11} - 7u^{10} + \cdots + 12u + 8 \\ -u^{10} - u^9 + 4u^8 + 4u^7 - 7u^6 - 4u^5 + 8u^4 + 2u^3 - 5u^2 - 2u + 1 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -2u^{11} - 3u^{10} + \cdots + 4u + 7 \\ -u^{11} - u^{10} + 5u^9 + 5u^8 - 10u^7 - 7u^6 + 12u^5 + 3u^4 - 9u^3 - 3u^2 + 2u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 4u^{11} + 7u^{10} + \cdots - 8u - 5 \\ -u^{11} + 6u^9 + 2u^8 - 12u^7 - 2u^6 + 11u^5 - 2u^4 - 7u^3 - 4u^2 + u + 1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -3u^{11} - 4u^{10} + \cdots + 6u + 5 \\ u^{11} + 2u^{10} - 3u^9 - 8u^8 + 3u^7 + 12u^6 - 3u^5 - 12u^4 + u^3 + 9u^2 - 2 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes

$= -22u^{11} - 25u^{10} + 99u^9 + 115u^8 - 193u^7 - 165u^6 + 241u^5 + 111u^4 - 185u^3 - 73u^2 + 54u + 6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{12}+u^{11}+\cdots+4u+1$
c_2	$u^{12}+u^{11}+\cdots-7u-1$
c_3	$u^{12}-3u^{11}+\cdots+u-1$
c_4	$u^{12}-4u^{10}-u^9+u^8+u^7+5u^6+4u^5+u^4-2u^3-2u^2-2u-1$
c_5	$u^{12}+u^{11}+\cdots-u+1$
c_6, c_7	$u^{12}+u^{11}+\cdots-2u-1$
c_8, c_9	$u^{12}-4u^{10}+u^9+u^8-u^7+5u^6-4u^5+u^4+2u^3-2u^2+2u-1$
c_{10}	$u^{12}+2u^{11}+2u^{10}+2u^9-u^8-4u^7-5u^6-u^5-u^4+u^3+4u^2-1$
c_{11}	$u^{12}-3u^{11}+\cdots-11u+1$
c_{12}	$u^{12}-u^{11}+\cdots+2u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{12} + 7y^{11} + \cdots - 66y + 1$
c_2	$y^{12} - 13y^{11} + \cdots - 75y + 1$
c_3	$y^{12} - 11y^{11} + \cdots + 3y + 1$
c_4, c_8, c_9	$y^{12} - 8y^{11} + 18y^{10} + y^9 - 35y^8 + 5y^7 + 29y^6 - 2y^5 - y^4 - 2y^3 - 6y^2 + 1$
c_5	$y^{12} - 11y^{11} + \cdots - 13y + 1$
c_6, c_7, c_{12}	$y^{12} - 17y^{11} + \cdots - 16y + 1$
c_{10}	$y^{12} - 6y^{10} - 2y^9 - y^8 - 2y^7 + 29y^6 + 5y^5 - 35y^4 + y^3 + 18y^2 - 8y + 1$
c_{11}	$y^{12} - 11y^{11} + \cdots - 47y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.758819 + 0.689182I$ $a = 0.17020 - 1.46697I$ $b = 1.078870 - 0.519683I$	$1.60765 - 3.05777I$	$-1.33050 + 7.30606I$
$u = 0.758819 - 0.689182I$ $a = 0.17020 + 1.46697I$ $b = 1.078870 + 0.519683I$	$1.60765 + 3.05777I$	$-1.33050 - 7.30606I$
$u = -0.771425 + 0.444552I$ $a = 0.78709 + 2.28125I$ $b = 1.15458 + 1.18981I$	$8.30950 + 5.26934I$	$4.00276 - 5.66957I$
$u = -0.771425 - 0.444552I$ $a = 0.78709 - 2.28125I$ $b = 1.15458 - 1.18981I$	$8.30950 - 5.26934I$	$4.00276 + 5.66957I$
$u = 1.29947$ $a = -1.51655$ $b = -1.10874$	0.486710	-0.332780
$u = -1.33762$ $a = -1.04653$ $b = -0.605429$	-6.53216	5.49390
$u = 0.656374$ $a = -0.765708$ $b = -2.08682$	3.11330	-10.0660
$u = -0.603038$ $a = 0.280338$ $b = -1.46953$	-3.50332	-18.5260
$u = 1.43791$ $a = -0.393742$ $b = 0.122601$	-4.98629	-9.47130
$u = 0.481939$ $a = 2.60883$ $b = -0.696593$	-0.845589	3.83140

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.45491 + 0.63338I$ $a = 0.459395 + 0.118062I$ $b = 1.188800 - 0.172635I$	$6.08613 - 1.26753I$	$8.36359 + 3.51289I$
$u = -1.45491 - 0.63338I$ $a = 0.459395 - 0.118062I$ $b = 1.188800 + 0.172635I$	$6.08613 + 1.26753I$	$8.36359 - 3.51289I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{12}+u^{11}+\cdots+4u+1)(u^{42}-2u^{41}+\cdots+7155u+1759)$
c_2	$(u^{12}+u^{11}+\cdots-7u-1)(u^{42}-20u^{40}+\cdots-4u+1)$
c_3	$(u^{12}-3u^{11}+\cdots+u-1)(u^{42}-3u^{40}+\cdots+36u-7)$
c_4	$(u^{12}-4u^{10}-u^9+u^8+u^7+5u^6+4u^5+u^4-2u^3-2u^2-2u-1)$ $\cdot(u^{42}-u^{41}+\cdots+125u-43)$
c_5	$(u^{12}+u^{11}+\cdots-u+1)(u^{42}-5u^{40}+\cdots+12u-1)$
c_6, c_7	$(u^{12}+u^{11}+\cdots-2u-1)(u^{42}-2u^{41}+\cdots-9u+1)$
c_8, c_9	$(u^{12}-4u^{10}+u^9+u^8-u^7+5u^6-4u^5+u^4+2u^3-2u^2+2u-1)$ $\cdot(u^{42}-u^{41}+\cdots+125u-43)$
c_{10}	$(u^{12}+2u^{11}+2u^{10}+2u^9-u^8-4u^7-5u^6-u^5-u^4+u^3+4u^2-1)$ $\cdot(u^{42}+u^{41}+\cdots+17u+1)$
c_{11}	$(u^{12}-3u^{11}+\cdots-11u+1)(u^{42}-2u^{41}+\cdots-260u-29)$
c_{12}	$(u^{12}-u^{11}+\cdots+2u-1)(u^{42}-2u^{41}+\cdots-9u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{12} + 7y^{11} + \cdots - 66y + 1)$ $\cdot (y^{42} + 84y^{41} + \cdots - 28548659y + 3094081)$
c_2	$(y^{12} - 13y^{11} + \cdots - 75y + 1)(y^{42} - 40y^{41} + \cdots - 132y + 1)$
c_3	$(y^{12} - 11y^{11} + \cdots + 3y + 1)(y^{42} - 6y^{41} + \cdots - 246y + 49)$
c_4, c_8, c_9	$(y^{12} - 8y^{11} + 18y^{10} + y^9 - 35y^8 + 5y^7 + 29y^6 - 2y^5 - y^4 - 2y^3 - 6y^2 + 1)$ $\cdot (y^{42} + 5y^{41} + \cdots + 3123y + 1849)$
c_5	$(y^{12} - 11y^{11} + \cdots - 13y + 1)(y^{42} - 10y^{41} + \cdots - 102y + 1)$
c_6, c_7, c_{12}	$(y^{12} - 17y^{11} + \cdots - 16y + 1)(y^{42} - 56y^{41} + \cdots - 185y + 1)$
c_{10}	$(y^{12} - 6y^{10} - 2y^9 - y^8 - 2y^7 + 29y^6 + 5y^5 - 35y^4 + y^3 + 18y^2 - 8y + 1)$ $\cdot (y^{42} + 41y^{41} + \cdots - 193y + 1)$
c_{11}	$(y^{12} - 11y^{11} + \cdots - 47y + 1)(y^{42} - 26y^{41} + \cdots - 54028y + 841)$