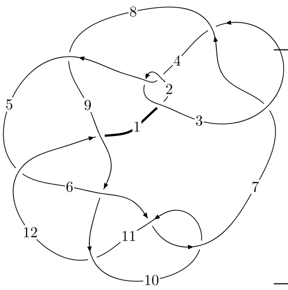
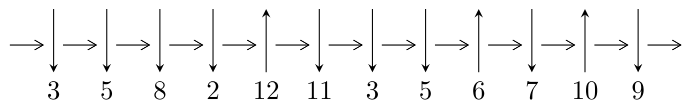
$12n_{0150}$ ($K12n_{0150}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle u^{36} - u^{35} + \cdots + b - 2u,\ -u^{36} + u^{35} + \cdots + a + 1,\ u^{38} - 2u^{37} + \cdots - 5u + 1\rangle$$
$$I_2^u = \langle b + u,\ -u^3 + a - u + 1,\ u^4 + u^2 - u + 1\rangle$$
$$I_3^u = \langle -u^5 - u^4 - 2u^3 - 2u^2 + b - 2u - 1,\ u^4 + u^2 + a,\ u^6 + u^5 + 2u^4 + 2u^3 + 2u^2 + 2u + 1\rangle$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 48 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.

$\boldsymbol{I^u_1 = \langle u^{36}-u^{35}+\cdots+b-2u,\ -u^{36}+u^{35}+\cdots+a+1,\ u^{38}-2u^{37}+\cdots-5u+1\rangle}$

(i) Arc colorings

$$a_6 = \begin{pmatrix}1\\0\end{pmatrix}$$

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

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

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

$$a_{12} = \begin{pmatrix}u^3\\u^5+u^3+u\end{pmatrix}$$

$$a_3 = \begin{pmatrix}u^{36}-u^{35}+\cdots-2u^3-1\\-u^{36}+u^{35}+\cdots-3u^2+2u\end{pmatrix}$$

$$a_5 = \begin{pmatrix}u^8+u^6+u^4+1\\u^{10}+2u^8+3u^6+2u^4+u^2\end{pmatrix}$$

$$a_2 = \begin{pmatrix}-u^{34}+u^{33}+\cdots+3u-1\\-u^{36}+u^{35}+\cdots-2u^2+2u\end{pmatrix}$$

$$a_4 = \begin{pmatrix}u^{36}-u^{35}+\cdots-4u+2\\-u^{36}-u^{35}+\cdots+u^2-u\end{pmatrix}$$

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

$$a_1 = \begin{pmatrix}-u^{11}-2u^9-2u^7+u^3\\u^{11}+3u^9+4u^7+3u^5+u^3+u\end{pmatrix}$$

$$a_8 = \begin{pmatrix}u^{21}+4u^{19}+9u^{17}+12u^{15}+12u^{13}+10u^{11}+9u^9+6u^7+3u^5+u\\u^{23}+5u^{21}+\cdots+2u^3+u\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes

$= 4u^{37}-12u^{36}+46u^{35}-104u^{34}+244u^{33}-468u^{32}+837u^{31}-1403u^{30}+2076u^{29}-3097u^{28}+3974u^{27}-5326u^{26}+6111u^{25}-7416u^{24}+7798u^{23}-8645u^{22}+8473u^{21}-8673u^{20}+8000u^{19}-7644u^{18}+6639u^{17}-5962u^{16}+4886u^{15}-4146u^{14}+3236u^{13}-2602u^{12}+1976u^{11}-1512u^{10}+1108u^9-780u^8+540u^7-353u^6+237u^5-147u^4+100u^3-62u^2+37u-18$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{38} + 57u^{37} + \cdots + 4u + 1$
c_2, c_4	$u^{38} - 11u^{37} + \cdots + 10u - 1$
c_3, c_7	$u^{38} - u^{37} + \cdots - 1024u - 1024$
c_5	$u^{38} + 10u^{37} + \cdots + 313u + 43$
c_6, c_{10}	$u^{38} + 2u^{37} + \cdots + 5u + 1$
c_8	$u^{38} + 2u^{37} + \cdots + 3u + 1$
c_9	$u^{38} - 2u^{37} + \cdots - 24u + 8$
c_{11}	$u^{38} - 18u^{37} + \cdots + 5u + 1$
c_{12}	$u^{38} - 6u^{37} + \cdots - 2663u + 61$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{38} - 141y^{37} + \cdots - 12y + 1$
c_2, c_4	$y^{38} - 57y^{37} + \cdots - 4y + 1$
c_3, c_7	$y^{38} - 63y^{37} + \cdots + 8912896y + 1048576$
c_5	$y^{38} + 18y^{37} + \cdots + 243y + 1849$
c_6, c_{10}	$y^{38} + 18y^{37} + \cdots - 5y + 1$
c_8	$y^{38} - 78y^{37} + \cdots - 5y + 1$
c_9	$y^{38} - 6y^{37} + \cdots - 1680y + 64$
c_{11}	$y^{38} + 6y^{37} + \cdots - 77y + 1$
c_{12}	$y^{38} - 18y^{37} + \cdots - 5705405y + 3721$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.190184 + 1.006430I$ $a = 0.666672 + 0.650134I$ $b = 0.171965 - 0.057486I$	$-0.043597 + 0.941262I$	$-5.60914 - 1.60302I$
$u = 0.190184 - 1.006430I$ $a = 0.666672 - 0.650134I$ $b = 0.171965 + 0.057486I$	$-0.043597 - 0.941262I$	$-5.60914 + 1.60302I$
$u = -0.330777 + 0.907409I$ $a = 0.06706 + 2.30485I$ $b = 1.66441 - 0.88267I$	$-0.97161 + 1.42227I$	$-5.26135 - 0.25979I$
$u = -0.330777 - 0.907409I$ $a = 0.06706 - 2.30485I$ $b = 1.66441 + 0.88267I$	$-0.97161 - 1.42227I$	$-5.26135 + 0.25979I$
$u = -0.732889 + 0.615448I$ $a = -0.77820 - 1.38388I$ $b = 0.885934 + 0.086371I$	$-16.4068 + 4.3334I$	$-12.33818 - 2.98248I$
$u = -0.732889 - 0.615448I$ $a = -0.77820 + 1.38388I$ $b = 0.885934 - 0.086371I$	$-16.4068 - 4.3334I$	$-12.33818 + 2.98248I$
$u = 0.392112 + 1.025700I$ $a = -0.398310 - 0.990025I$ $b = 0.344483 + 0.379769I$	$1.28562 - 2.93709I$	$-3.65871 + 5.49454I$
$u = 0.392112 - 1.025700I$ $a = -0.398310 + 0.990025I$ $b = 0.344483 - 0.379769I$	$1.28562 + 2.93709I$	$-3.65871 - 5.49454I$
$u = 0.808282 + 0.376060I$ $a = -0.308296 - 1.239560I$ $b = 2.75261 - 1.36307I$	$-15.0919 + 7.2035I$	$-11.42537 - 2.83717I$
$u = 0.808282 - 0.376060I$ $a = -0.308296 + 1.239560I$ $b = 2.75261 + 1.36307I$	$-15.0919 - 7.2035I$	$-11.42537 + 2.83717I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.283537 + 1.096170I$ $a = -0.116887 - 1.308640I$ $b = -0.749932 + 0.972888I$	$3.86766 + 0.18519I$	$3.63146 - 0.12416I$
$u = -0.283537 - 1.096170I$ $a = -0.116887 + 1.308640I$ $b = -0.749932 - 0.972888I$	$3.86766 - 0.18519I$	$3.63146 + 0.12416I$
$u = -0.694068 + 0.485559I$ $a = 1.073670 - 0.121248I$ $b = -0.86069 - 1.59817I$	$-4.83970 + 0.46505I$	$-12.83571 - 0.64239I$
$u = -0.694068 - 0.485559I$ $a = 1.073670 + 0.121248I$ $b = -0.86069 + 1.59817I$	$-4.83970 - 0.46505I$	$-12.83571 + 0.64239I$
$u = 0.725358 + 0.427516I$ $a = 0.910150 + 0.189413I$ $b = -1.062290 + 0.018396I$	$-4.53414 + 2.77322I$	$-12.23678 - 1.99066I$
$u = 0.725358 - 0.427516I$ $a = 0.910150 - 0.189413I$ $b = -1.062290 - 0.018396I$	$-4.53414 - 2.77322I$	$-12.23678 + 1.99066I$
$u = 0.520749 + 1.037540I$ $a = -0.591726 - 0.036334I$ $b = -0.0031098 - 0.1233600I$	$0.43968 - 3.37790I$	$-4.33141 + 2.37402I$
$u = 0.520749 - 1.037540I$ $a = -0.591726 + 0.036334I$ $b = -0.0031098 + 0.1233600I$	$0.43968 + 3.37790I$	$-4.33141 - 2.37402I$
$u = -0.635679 + 0.975329I$ $a = -0.60721 + 1.51515I$ $b = -0.083609 - 0.380918I$	$-15.3384 + 0.8717I$	$-10.72381 - 2.45601I$
$u = -0.635679 - 0.975329I$ $a = -0.60721 - 1.51515I$ $b = -0.083609 + 0.380918I$	$-15.3384 - 0.8717I$	$-10.72381 + 2.45601I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.169305 + 1.157370I$ $a = -2.96351 + 1.28333I$ $b = 1.31226 - 2.38449I$	$-10.03480 + 4.57409I$	$-5.57316 - 1.67266I$
$u = 0.169305 - 1.157370I$ $a = -2.96351 - 1.28333I$ $b = 1.31226 + 2.38449I$	$-10.03480 - 4.57409I$	$-5.57316 + 1.67266I$
$u = -0.578647 + 1.054140I$ $a = -1.47418 - 2.16069I$ $b = -0.53165 + 2.48877I$	$-3.15884 + 4.44653I$	$-9.57300 - 4.70180I$
$u = -0.578647 - 1.054140I$ $a = -1.47418 + 2.16069I$ $b = -0.53165 - 2.48877I$	$-3.15884 - 4.44653I$	$-9.57300 + 4.70180I$
$u = -0.698518 + 0.329444I$ $a = -0.420323 + 0.439871I$ $b = 0.191136 + 0.950537I$	$-0.20642 - 2.47480I$	$-3.77716 + 2.78494I$
$u = -0.698518 - 0.329444I$ $a = -0.420323 - 0.439871I$ $b = 0.191136 - 0.950537I$	$-0.20642 + 2.47480I$	$-3.77716 - 2.78494I$
$u = 0.581924 + 1.085040I$ $a = 0.77887 + 1.33818I$ $b = -0.985828 - 0.678181I$	$-2.59793 - 7.77172I$	$-8.83321 + 6.58917I$
$u = 0.581924 - 1.085040I$ $a = 0.77887 - 1.33818I$ $b = -0.985828 + 0.678181I$	$-2.59793 + 7.77172I$	$-8.83321 - 6.58917I$
$u = 0.561548 + 0.523699I$ $a = -0.514245 + 0.265142I$ $b = 0.143026 + 0.191094I$	$-1.11182 - 0.98490I$	$-6.72845 + 3.76025I$
$u = 0.561548 - 0.523699I$ $a = -0.514245 - 0.265142I$ $b = 0.143026 - 0.191094I$	$-1.11182 + 0.98490I$	$-6.72845 - 3.76025I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.424583 + 1.162280I$ $a = 3.07997 + 1.73117I$ $b = -3.42587 + 1.10441I$	$-6.91800 - 4.12327I$	$-5.26243 + 3.48548I$
$u = 0.424583 - 1.162280I$ $a = 3.07997 - 1.73117I$ $b = -3.42587 - 1.10441I$	$-6.91800 + 4.12327I$	$-5.26243 - 3.48548I$
$u = -0.549992 + 1.111450I$ $a = 0.916076 + 1.068210I$ $b = 0.33127 - 1.48940I$	$2.05645 + 7.27341I$	$-0.29909 - 6.10879I$
$u = -0.549992 - 1.111450I$ $a = 0.916076 - 1.068210I$ $b = 0.33127 + 1.48940I$	$2.05645 - 7.27341I$	$-0.29909 + 6.10879I$
$u = 0.738732$ $a = -1.26309$ $b = -2.66464$	-10.3080	-9.27210
$u = 0.596983 + 1.127320I$ $a = -0.65101 - 3.73015I$ $b = 3.48928 + 1.94339I$	$-12.8566 - 12.4568I$	$-8.47504 + 6.79450I$
$u = 0.596983 - 1.127320I$ $a = -0.65101 + 3.73015I$ $b = 3.48928 - 1.94339I$	$-12.8566 + 12.4568I$	$-8.47504 - 6.79450I$
$u = 0.327423$ $a = -1.07406$ $b = 0.497882$	-1.00232	-10.1070

II. $I_2^u = \langle b+u,\ -u^3+a-u+1,\ u^4+u^2-u+1\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_7 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}u\\u^3+u\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}u^3\\u^2\end{pmatrix}$$
$$a_3 = \begin{pmatrix}u^3+u-1\\-u\end{pmatrix}$$
$$a_5 = \begin{pmatrix}-u^3+u^2-u+1\\-u^2+u-1\end{pmatrix}$$
$$a_2 = \begin{pmatrix}2u^3-u^2+2u-2\\u^2-2u+1\end{pmatrix}$$
$$a_4 = \begin{pmatrix}u^3+u-1\\-u\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-u^3\\u^3+u\end{pmatrix}$$
$$a_1 = \begin{pmatrix}u^3-u^2+u-1\\u^2-u+1\end{pmatrix}$$
$$a_8 = \begin{pmatrix}1\\u^2\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 3u^3+4u^2-u-10$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2	$(u-1)^4$
c_3, c_7	u^4
c_4	$(u+1)^4$
c_5	$u^4+2u^3+3u^2+u+1$
c_6	u^4+u^2-u+1
c_8, c_{10}, c_{12}	u^4+u^2+u+1
c_9	$u^4+3u^3+4u^2+3u+2$
c_{11}	$u^4-2u^3+3u^2-u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4	$(y-1)^4$
c_3, c_7	y^4
c_5, c_{11}	$y^4+2y^3+7y^2+5y+1$
c_6, c_8, c_{10} c_{12}	$y^4+2y^3+3y^2+y+1$
c_9	$y^4-y^3+2y^2+7y+4$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.547424 + 0.585652I$ $a = -0.851808 + 0.911292I$ $b = -0.547424 - 0.585652I$	$-2.62503 - 1.39709I$	$-11.91838 + 2.95607I$
$u = 0.547424 - 0.585652I$ $a = -0.851808 - 0.911292I$ $b = -0.547424 + 0.585652I$	$-2.62503 + 1.39709I$	$-11.91838 - 2.95607I$
$u = -0.547424 + 1.120870I$ $a = 0.351808 + 0.720342I$ $b = 0.547424 - 1.120870I$	$0.98010 + 7.64338I$	$-7.58162 - 7.23121I$
$u = -0.547424 - 1.120870I$ $a = 0.351808 - 0.720342I$ $b = 0.547424 + 1.120870I$	$0.98010 - 7.64338I$	$-7.58162 + 7.23121I$

III. $I^u_3 = \langle -u^5-u^4-2u^3-2u^2+b-2u-1,\ u^4+u^2+a,\ u^6+u^5+2u^4+2u^3+2u^2+2u+1\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} u \\ u^3+u \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} u^3 \\ u^5+u^3+u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u^4-u^2 \\ u^5+u^4+2u^3+2u^2+2u+1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} u^4+u^2+u+1 \\ -2u^5-u^4-3u^3-2u^2-3u-2 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -2u^4-2u^2-u-1 \\ 3u^5+2u^4+5u^3+4u^2+5u+3 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -u^4-u^2 \\ u^5+u^4+2u^3+2u^2+2u+1 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -u^3 \\ u^3+u \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -u^4-u^2-u-1 \\ 2u^5+u^4+3u^3+2u^2+3u+2 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -u^4+3u^3-u^2+4u-7$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4	$(y-1)^6$
c_3, c_7	y^6
c_5, c_{11}	$y^6 - y^5 + 4y^4 - 2y^3 + 8y^2 + 1$
c_6, c_8, c_{10} c_{12}	$y^6 + 3y^5 + 4y^4 + 2y^3 + 1$
c_9	$(y^3 - y^2 + 2y - 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.498832 + 1.001300I$ $a = 1.183530 + 0.507021I$ $b = -1.39861 + 0.80012I$	$-1.37919 - 2.82812I$	$-7.94996 + 3.74291I$
$u = 0.498832 - 1.001300I$ $a = 1.183530 - 0.507021I$ $b = -1.39861 - 0.80012I$	$-1.37919 + 2.82812I$	$-7.94996 - 3.74291I$
$u = -0.284920 + 1.115140I$ $a = 0.215080 - 0.841795I$ $b = -0.784920 + 0.841795I$	2.75839	$-4.80521 + 0.27335I$
$u = -0.284920 - 1.115140I$ $a = 0.215080 + 0.841795I$ $b = -0.784920 - 0.841795I$	2.75839	$-4.80521 - 0.27335I$
$u = -0.713912 + 0.305839I$ $a = -0.398606 + 0.800120I$ $b = 0.183526 + 0.507021I$	$-1.37919 - 2.82812I$	$-10.74483 + 3.34054I$
$u = -0.713912 - 0.305839I$ $a = -0.398606 - 0.800120I$ $b = 0.183526 - 0.507021I$	$-1.37919 + 2.82812I$	$-10.74483 - 3.34054I$

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^{10})(u^{38}+57u^{37}+\cdots+4u+1)$
c_2	$((u-1)^{10})(u^{38}-11u^{37}+\cdots+10u-1)$
c_3, c_7	$u^{10}(u^{38}-u^{37}+\cdots-1024u-1024)$
c_4	$((u+1)^{10})(u^{38}-11u^{37}+\cdots+10u-1)$
c_5	$(u^4+2u^3+3u^2+u+1)(u^6+3u^5+4u^4+2u^3+1)$ $\cdot(u^{38}+10u^{37}+\cdots+313u+43)$
c_6	$(u^4+u^2-u+1)(u^6+u^5+2u^4+2u^3+2u^2+2u+1)$ $\cdot(u^{38}+2u^{37}+\cdots+5u+1)$
c_8	$(u^4+u^2+u+1)(u^6-u^5+2u^4-2u^3+2u^2-2u+1)$ $\cdot(u^{38}+2u^{37}+\cdots+3u+1)$
c_9	$((u^3-u^2+1)^2)(u^4+3u^3+\cdots+3u+2)(u^{38}-2u^{37}+\cdots-24u+8)$
c_{10}	$(u^4+u^2+u+1)(u^6-u^5+2u^4-2u^3+2u^2-2u+1)$ $\cdot(u^{38}+2u^{37}+\cdots+5u+1)$
c_{11}	$(u^4-2u^3+3u^2-u+1)(u^6-3u^5+4u^4-2u^3+1)$ $\cdot(u^{38}-18u^{37}+\cdots+5u+1)$
c_{12}	$(u^4+u^2+u+1)(u^6-u^5+2u^4-2u^3+2u^2-2u+1)$ $\cdot(u^{38}-6u^{37}+\cdots-2663u+61)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$((y-1)^{10})(y^{38} - 141y^{37} + \cdots - 12y + 1)$
c_2, c_4	$((y-1)^{10})(y^{38} - 57y^{37} + \cdots - 4y + 1)$
c_3, c_7	$y^{10}(y^{38} - 63y^{37} + \cdots + 8912896y + 1048576)$
c_5	$(y^4 + 2y^3 + 7y^2 + 5y + 1)(y^6 - y^5 + 4y^4 - 2y^3 + 8y^2 + 1)$ $\cdot (y^{38} + 18y^{37} + \cdots + 243y + 1849)$
c_6, c_{10}	$(y^4 + 2y^3 + 3y^2 + y + 1)(y^6 + 3y^5 + 4y^4 + 2y^3 + 1)$ $\cdot (y^{38} + 18y^{37} + \cdots - 5y + 1)$
c_8	$(y^4 + 2y^3 + 3y^2 + y + 1)(y^6 + 3y^5 + 4y^4 + 2y^3 + 1)$ $\cdot (y^{38} - 78y^{37} + \cdots - 5y + 1)$
c_9	$(y^3 - y^2 + 2y - 1)^2(y^4 - y^3 + 2y^2 + 7y + 4)$ $\cdot (y^{38} - 6y^{37} + \cdots - 1680y + 64)$
c_{11}	$(y^4 + 2y^3 + 7y^2 + 5y + 1)(y^6 - y^5 + 4y^4 - 2y^3 + 8y^2 + 1)$ $\cdot (y^{38} + 6y^{37} + \cdots - 77y + 1)$
c_{12}	$(y^4 + 2y^3 + 3y^2 + y + 1)(y^6 + 3y^5 + 4y^4 + 2y^3 + 1)$ $\cdot (y^{38} - 18y^{37} + \cdots - 5705405y + 3721)$