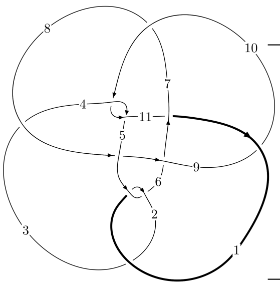
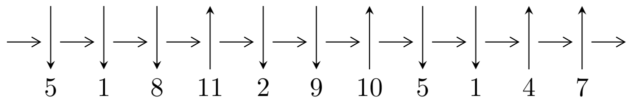
$11n_{120}$ $(K11n_{120})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 2.10700 \times 10^{42} u^{32} - 8.32114 \times 10^{42} u^{31} + \cdots + 1.04181 \times 10^{43} b + 3.11913 \times 10^{43}, \\
& - 3.50718 \times 10^{43} u^{32} + 1.44547 \times 10^{44} u^{31} + \cdots + 1.04181 \times 10^{43} a - 2.21436 \times 10^{44}, \\
& u^{33} - 4u^{32} + \cdots + 20u + 1 \rangle \\
I_2^u = \langle & -u^7 - u^6 + 4u^5 + 5u^4 - 2u^3 - 4u^2 + b + u + 1,\ u^9 + u^8 - 5u^7 - 6u^6 + 6u^5 + 9u^4 - 4u^3 - 6u^2 + a + u + 2, \\
& u^{10} + u^9 - 5u^8 - 6u^7 + 6u^6 + 9u^5 - 4u^4 - 6u^3 + 2u^2 + 2u - 1 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 43 representations.

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[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. $I_1^u = \langle 2.11\times10^{42}u^{32} - 8.32\times10^{42}u^{31} + \cdots + 1.04\times10^{43}b + 3.12\times10^{43},\ -3.51\times10^{43}u^{32} + 1.45\times10^{44}u^{31} + \cdots + 1.04\times10^{43}a - 2.21\times10^{44},\ u^{33} - 4u^{32} + \cdots + 20u + 1\rangle$

(i) Arc colorings

$$a_1 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_5 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_2 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-u^2+1\\u^2\end{pmatrix}$$
$$a_6 = \begin{pmatrix}-u\\-u^3+u\end{pmatrix}$$
$$a_9 = \begin{pmatrix}3.36643u^{32} - 13.8746u^{31} + \cdots + 359.454u + 21.2550\\-0.202245u^{32} + 0.798722u^{31} + \cdots - 30.1211u - 2.99396\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}3.56868u^{32} - 14.6734u^{31} + \cdots + 389.575u + 24.2489\\-0.202245u^{32} + 0.798722u^{31} + \cdots - 30.1211u - 2.99396\end{pmatrix}$$
$$a_8 = \begin{pmatrix}3.36643u^{32} - 13.8746u^{31} + \cdots + 359.454u + 21.2550\\-0.242116u^{32} + 0.964369u^{31} + \cdots - 34.9325u - 3.40285\end{pmatrix}$$
$$a_7 = \begin{pmatrix}-2.39153u^{32} + 9.65565u^{31} + \cdots - 322.155u - 32.6535\\-0.333028u^{32} + 1.39186u^{31} + \cdots - 27.7757u - 1.13662\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}-0.0378953u^{32} - 0.0228553u^{31} + \cdots - 72.9307u - 16.7529\\-0.414218u^{32} + 1.71120u^{31} + \cdots - 42.6953u - 2.83658\end{pmatrix}$$
$$a_4 = \begin{pmatrix}-1.41343u^{32} + 6.01740u^{31} + \cdots - 83.5671u + 7.88298\\0.510036u^{32} - 2.09654u^{31} + \cdots + 58.5090u + 4.26540\end{pmatrix}$$
$$a_4 = \begin{pmatrix}-1.41343u^{32} + 6.01740u^{31} + \cdots - 83.5671u + 7.88298\\0.510036u^{32} - 2.09654u^{31} + \cdots + 58.5090u + 4.26540\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 1.43631u^{32} - 5.67419u^{31} + \cdots + 211.371u + 17.0575$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{33} + 4u^{32} + \cdots + 20u - 1$
c_2	$u^{33} + 48u^{32} + \cdots + 88u + 1$
c_3	$u^{33} - u^{32} + \cdots + 864u - 691$
c_4, c_{10}	$u^{33} - 11u^{31} + \cdots - u - 1$
c_6	$u^{33} + 6u^{32} + \cdots - 2315u + 1751$
c_7	$u^{33} + 10u^{32} + \cdots + 108u + 11$
c_8	$u^{33} - 32u^{31} + \cdots + 138u - 193$
c_9	$u^{33} - 8u^{32} + \cdots + 8781u - 1799$
c_{11}	$u^{33} - 2u^{32} + \cdots + 5u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{33} - 48y^{32} + \cdots + 88y - 1$
c_2	$y^{33} - 124y^{32} + \cdots - 3924y - 1$
c_3	$y^{33} - 21y^{32} + \cdots + 2800148y - 477481$
c_4, c_{10}	$y^{33} - 22y^{32} + \cdots + 11y - 1$
c_6	$y^{33} - 58y^{32} + \cdots + 8486511y - 3066001$
c_7	$y^{33} + 2y^{32} + \cdots + 48y - 121$
c_8	$y^{33} - 64y^{32} + \cdots - 45418y - 37249$
c_9	$y^{33} - 36y^{32} + \cdots + 44853489y - 3236401$
c_{11}	$y^{33} + 2y^{32} + \cdots - 17y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.403017 + 0.814677I$ $a = 0.107700 - 0.226447I$ $b = -0.856763 + 0.231979I$	$2.50185 - 1.42660I$	$-0.894808 - 0.237180I$
$u = -0.403017 - 0.814677I$ $a = 0.107700 + 0.226447I$ $b = -0.856763 - 0.231979I$	$2.50185 + 1.42660I$	$-0.894808 + 0.237180I$
$u = 1.032610 + 0.451125I$ $a = -0.534105 + 0.421030I$ $b = -0.605715 + 0.947070I$	$0.20621 + 3.24394I$	$-3.32595 - 5.32169I$
$u = 1.032610 - 0.451125I$ $a = -0.534105 - 0.421030I$ $b = -0.605715 - 0.947070I$	$0.20621 - 3.24394I$	$-3.32595 + 5.32169I$
$u = -0.617495 + 0.594331I$ $a = 0.228591 + 0.499559I$ $b = 0.686667 + 0.747422I$	$-0.659531 - 0.792248I$	$-4.14798 - 2.75904I$
$u = -0.617495 - 0.594331I$ $a = 0.228591 - 0.499559I$ $b = 0.686667 - 0.747422I$	$-0.659531 + 0.792248I$	$-4.14798 + 2.75904I$
$u = -0.709464 + 0.375757I$ $a = -0.54330 - 1.82882I$ $b = -1.28499 + 0.81921I$	$1.69477 - 3.95490I$	$-4.65099 + 5.53433I$
$u = -0.709464 - 0.375757I$ $a = -0.54330 + 1.82882I$ $b = -1.28499 - 0.81921I$	$1.69477 + 3.95490I$	$-4.65099 - 5.53433I$
$u = 0.788903 + 0.039022I$ $a = -1.048110 - 0.208486I$ $b = -0.390987 - 0.219065I$	$-1.46450 - 0.11042I$	$-7.61890 - 0.69071I$
$u = 0.788903 - 0.039022I$ $a = -1.048110 + 0.208486I$ $b = -0.390987 + 0.219065I$	$-1.46450 + 0.11042I$	$-7.61890 + 0.69071I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.025720 + 0.722645I$ $a = 0.176298 - 0.905575I$ $b = 1.54028 + 0.15435I$	$-2.74722 - 2.04706I$	$-9.49316 + 3.23628I$
$u = 1.025720 - 0.722645I$ $a = 0.176298 + 0.905575I$ $b = 1.54028 - 0.15435I$	$-2.74722 + 2.04706I$	$-9.49316 - 3.23628I$
$u = -1.065340 + 0.919963I$ $a = -0.237358 - 0.585233I$ $b = -1.334700 + 0.176044I$	$0.59436 + 7.58146I$	$0. - 6.03486I$
$u = -1.065340 - 0.919963I$ $a = -0.237358 + 0.585233I$ $b = -1.334700 - 0.176044I$	$0.59436 - 7.58146I$	$0. + 6.03486I$
$u = -0.577387 + 0.118189I$ $a = 1.51353 - 0.89064I$ $b = 0.632385 - 0.535325I$	$-0.92676 + 3.03549I$	$-5.42554 - 8.81658I$
$u = -0.577387 - 0.118189I$ $a = 1.51353 + 0.89064I$ $b = 0.632385 + 0.535325I$	$-0.92676 - 3.03549I$	$-5.42554 + 8.81658I$
$u = 1.64269 + 0.08860I$ $a = 1.325930 - 0.361396I$ $b = 1.159390 + 0.130829I$	$-8.66188 + 2.58631I$	0
$u = 1.64269 - 0.08860I$ $a = 1.325930 + 0.361396I$ $b = 1.159390 - 0.130829I$	$-8.66188 - 2.58631I$	0
$u = -0.083136 + 0.281660I$ $a = -1.76082 + 0.45809I$ $b = 0.590245 + 0.696368I$	$-0.08685 - 1.51365I$	$-1.21011 + 3.17114I$
$u = -0.083136 - 0.281660I$ $a = -1.76082 - 0.45809I$ $b = 0.590245 - 0.696368I$	$-0.08685 + 1.51365I$	$-1.21011 - 3.17114I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.71660$ $a=-1.37178$ $b=-1.15039$	-10.7048	0
$u=\ \ 1.83781+0.30594I$ $a=\ \ 0.936033-0.283350I$ $b=\ \ 1.307470+0.126378I$	$-9.28497-3.68135I$	0
$u=\ \ 1.83781-0.30594I$ $a=\ \ 0.936033+0.283350I$ $b=\ \ 1.307470-0.126378I$	$-9.28497+3.68135I$	0
$u=-1.86212+0.06903I$ $a=-1.061290-0.082463I$ $b=-1.269770+0.034873I$	$-11.16570+0.07120I$	0
$u=-1.86212-0.06903I$ $a=-1.061290+0.082463I$ $b=-1.269770-0.034873I$	$-11.16570-0.07120I$	0
$u=\ \ 1.86596+0.26633I$ $a=-1.240120-0.046944I$ $b=-1.72861-1.20268I$	$-9.6038-12.7751I$	0
$u=\ \ 1.86596-0.26633I$ $a=-1.240120+0.046944I$ $b=-1.72861+1.20268I$	$-9.6038+12.7751I$	0
$u=-0.0996406+0.0510585I$ $a=-5.49416+8.68590I$ $b=-0.746822-0.713371I$	$3.57986-4.96677I$	$0.77431+5.63197I$
$u=-0.0996406-0.0510585I$ $a=-5.49416-8.68590I$ $b=-0.746822+0.713371I$	$3.57986+4.96677I$	$0.77431-5.63197I$
$u=-1.87441+0.23423I$ $a=\ \ 1.251320-0.104385I$ $b=\ \ 1.86854-1.38190I$	$-13.1119+6.5830I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.87441 - 0.23423I$ $a = 1.251320 + 0.104385I$ $b = 1.86854 + 1.38190I$	$-13.1119 - 6.5830I$	0
$u = 1.95662 + 0.23174I$ $a = -1.43425 - 0.24933I$ $b = -2.99143 - 2.15365I$	$-7.19656 - 0.44528I$	0
$u = 1.95662 - 0.23174I$ $a = -1.43425 + 0.24933I$ $b = -2.99143 + 2.15365I$	$-7.19656 + 0.44528I$	0

II. $\boldsymbol{I_2^u = \langle -u^7 - u^6 + 4u^5 + 5u^4 - 2u^3 - 4u^2 + b + u + 1,\ u^9 + u^8 + \cdots + a + 2,\ u^{10} + u^9 + \cdots + 2u - 1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u^2 + 1 \\ u^2 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -u^9 - u^8 + 5u^7 + 6u^6 - 6u^5 - 9u^4 + 4u^3 + 6u^2 - u - 2 \\ u^7 + u^6 - 4u^5 - 5u^4 + 2u^3 + 4u^2 - u - 1 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -u^9 - u^8 + 4u^7 + 5u^6 - 2u^5 - 4u^4 + 2u^3 + 2u^2 - 1 \\ u^7 + u^6 - 4u^5 - 5u^4 + 2u^3 + 4u^2 - u - 1 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -u^9 - u^8 + 5u^7 + 6u^6 - 6u^5 - 9u^4 + 4u^3 + 6u^2 - u - 2 \\ u^7 + u^6 - 4u^5 - 5u^4 + u^3 + 4u^2 - 1 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -2u^9 - 2u^8 + 10u^7 + 12u^6 - 11u^5 - 18u^4 + 4u^3 + 11u^2 - u - 3 \\ u^7 + u^6 - 4u^5 - 5u^4 + u^3 + 4u^2 + u - 1 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} u^9 - 5u^7 - u^6 + 6u^5 + 2u^4 - 2u^3 + u^2 - 1 \\ u^8 + u^7 - 3u^6 - 5u^5 - 3u^4 + 3u^3 + 4u^2 - 2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^9 + 2u^8 - 4u^7 - 10u^6 + 10u^4 + 4u^3 - 4u^2 - 2u + 1 \\ -u^8 + 5u^6 + u^5 - 7u^4 - 2u^3 + 6u^2 + u - 2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^9 + 2u^8 - 4u^7 - 10u^6 + 10u^4 + 4u^3 - 4u^2 - 2u + 1 \\ -u^8 + 5u^6 + u^5 - 7u^4 - 2u^3 + 6u^2 + u - 2 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -u^9 - 7u^8 + 29u^6 + 19u^5 - 14u^4 - 12u^3 + 4u^2 - 3u - 3$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{10}+u^9-5u^8-6u^7+6u^6+9u^5-4u^4-6u^3+2u^2+2u-1$
c_2	$u^{10}+11u^9+\cdots+8u+1$
c_3	$u^{10}-2u^8+3u^7+u^5-6u^4+9u^3-6u^2+2u-1$
c_4	$u^{10}+u^9-4u^8-3u^7+6u^6+3u^5-3u^4+u^3-u^2-u+1$
c_5	$u^{10}-u^9-5u^8+6u^7+6u^6-9u^5-4u^4+6u^3+2u^2-2u-1$
c_6	$u^{10}-7u^9+20u^8-33u^7+37u^6-31u^5+21u^4-12u^3+7u^2-3u+1$
c_7	$u^{10}+3u^9+2u^8-5u^7-12u^6-12u^5-6u^4-u^3+2u^2+2u+1$
c_8	$u^{10}-u^9-5u^8-6u^7+4u^6+21u^5+31u^4+28u^3+17u^2+6u+1$
c_9	$u^{10}+3u^9-u^8-u^7+3u^6-3u^4-u^3-u-1$
c_{10}	$u^{10}-u^9-4u^8+3u^7+6u^6-3u^5-3u^4-u^3-u^2+u+1$
c_{11}	$u^{10}+u^9+u^7+3u^6-3u^4+u^3+u^2-3u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{10} - 11y^9 + \cdots - 8y + 1$
c_2	$y^{10} - 23y^9 + \cdots + 8y + 1$
c_3	$y^{10} - 4y^9 + 4y^8 - 21y^7 + 6y^6 - 33y^5 + 10y^4 - 13y^3 + 12y^2 + 8y + 1$
c_4, c_{10}	$y^{10} - 9y^9 + 34y^8 - 69y^7 + 74y^6 - 27y^5 - 23y^4 + 23y^3 - 3y^2 - 3y + 1$
c_6	$y^{10} - 9y^9 + 12y^8 - y^7 + 9y^6 + 41y^5 + 57y^4 + 38y^3 + 19y^2 + 5y + 1$
c_7	$y^{10} - 5y^9 + 10y^8 - 13y^7 + 10y^6 - 12y^5 - 12y^4 - y^3 - 4y^2 + 1$
c_8	$y^{10} - 11y^9 + \cdots - 2y + 1$
c_9	$y^{10} - 11y^9 + 13y^8 - 13y^7 + 21y^6 - 16y^5 + 9y^4 - 7y^3 + 4y^2 - y + 1$
c_{11}	$y^{10} - y^9 + 4y^8 - 7y^7 + 9y^6 - 16y^5 + 21y^4 - 13y^3 + 13y^2 - 11y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.866197 + 0.578531I$ $a = -0.067855 + 1.111740I$ $b = 0.877449 + 0.215591I$	$3.01759 - 3.09606I$	$-0.30900 + 2.81871I$
$u = -0.866197 - 0.578531I$ $a = -0.067855 - 1.111740I$ $b = 0.877449 - 0.215591I$	$3.01759 + 3.09606I$	$-0.30900 - 2.81871I$
$u = -1.015340 + 0.405643I$ $a = -0.166016 + 0.744959I$ $b = 0.548989 - 0.533884I$	$2.52872 + 6.76916I$	$-1.54858 - 6.21981I$
$u = -1.015340 - 0.405643I$ $a = -0.166016 - 0.744959I$ $b = 0.548989 + 0.533884I$	$2.52872 - 6.76916I$	$-1.54858 + 6.21981I$
$u = 0.798561 + 0.168530I$ $a = -0.400296 + 0.421539I$ $b = -0.584842 - 0.825867I$	$-1.07490 - 2.24450I$	$-6.05768 + 4.70336I$
$u = 0.798561 - 0.168530I$ $a = -0.400296 - 0.421539I$ $b = -0.584842 + 0.825867I$	$-1.07490 + 2.24450I$	$-6.05768 - 4.70336I$
$u = 0.496273 + 0.300649I$ $a = -0.97776 + 1.19364I$ $b = -0.388447 + 0.692276I$	$-0.68101 + 1.88435I$	$-5.02064 - 2.89096I$
$u = 0.496273 - 0.300649I$ $a = -0.97776 - 1.19364I$ $b = -0.388447 - 0.692276I$	$-0.68101 - 1.88435I$	$-5.02064 + 2.89096I$
$u = -1.76945$ $a = -1.20430$ $b = -1.03466$	-10.1434	1.94620
$u = 1.94286$ $a = 1.42816$ $b = 3.12836$	-7.30701	-11.0740

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{10}+u^9-5u^8-6u^7+6u^6+9u^5-4u^4-6u^3+2u^2+2u-1)$ $\cdot(u^{33}+4u^{32}+\cdots+20u-1)$
c_2	$(u^{10}+11u^9+\cdots+8u+1)(u^{33}+48u^{32}+\cdots+88u+1)$
c_3	$(u^{10}-2u^8+3u^7+u^5-6u^4+9u^3-6u^2+2u-1)$ $\cdot(u^{33}-u^{32}+\cdots+864u-691)$
c_4	$(u^{10}+u^9-4u^8-3u^7+6u^6+3u^5-3u^4+u^3-u^2-u+1)$ $\cdot(u^{33}-11u^{31}+\cdots-u-1)$
c_5	$(u^{10}-u^9-5u^8+6u^7+6u^6-9u^5-4u^4+6u^3+2u^2-2u-1)$ $\cdot(u^{33}+4u^{32}+\cdots+20u-1)$
c_6	$(u^{10}-7u^9+20u^8-33u^7+37u^6-31u^5+21u^4-12u^3+7u^2-3u+1)$ $\cdot(u^{33}+6u^{32}+\cdots-2315u+1751)$
c_7	$(u^{10}+3u^9+2u^8-5u^7-12u^6-12u^5-6u^4-u^3+2u^2+2u+1)$ $\cdot(u^{33}+10u^{32}+\cdots+108u+11)$
c_8	$(u^{10}-u^9-5u^8-6u^7+4u^6+21u^5+31u^4+28u^3+17u^2+6u+1)$ $\cdot(u^{33}-32u^{31}+\cdots+138u-193)$
c_9	$(u^{10}+3u^9-u^8-u^7+3u^6-3u^4-u^3-u-1)$ $\cdot(u^{33}-8u^{32}+\cdots+8781u-1799)$
c_{10}	$(u^{10}-u^9-4u^8+3u^7+6u^6-3u^5-3u^4-u^3-u^2+u+1)$ $\cdot(u^{33}-11u^{31}+\cdots-u-1)$
c_{11}	$(u^{10}+u^9+\cdots-3u-1)(u^{33}-2u^{32}+\cdots+5u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{10} - 11y^9 + \cdots - 8y + 1)(y^{33} - 48y^{32} + \cdots + 88y - 1)$
c_2	$(y^{10} - 23y^9 + \cdots + 8y + 1)(y^{33} - 124y^{32} + \cdots - 3924y - 1)$
c_3	$(y^{10} - 4y^9 + 4y^8 - 21y^7 + 6y^6 - 33y^5 + 10y^4 - 13y^3 + 12y^2 + 8y + 1)$ $\cdot (y^{33} - 21y^{32} + \cdots + 2800148y - 477481)$
c_4, c_{10}	$(y^{10} - 9y^9 + 34y^8 - 69y^7 + 74y^6 - 27y^5 - 23y^4 + 23y^3 - 3y^2 - 3y + 1)$ $\cdot (y^{33} - 22y^{32} + \cdots + 11y - 1)$
c_6	$(y^{10} - 9y^9 + 12y^8 - y^7 + 9y^6 + 41y^5 + 57y^4 + 38y^3 + 19y^2 + 5y + 1)$ $\cdot (y^{33} - 58y^{32} + \cdots + 8486511y - 3066001)$
c_7	$(y^{10} - 5y^9 + 10y^8 - 13y^7 + 10y^6 - 12y^5 - 12y^4 - y^3 - 4y^2 + 1)$ $\cdot (y^{33} + 2y^{32} + \cdots + 48y - 121)$
c_8	$(y^{10} - 11y^9 + \cdots - 2y + 1)(y^{33} - 64y^{32} + \cdots - 45418y - 37249)$
c_9	$(y^{10} - 11y^9 + 13y^8 - 13y^7 + 21y^6 - 16y^5 + 9y^4 - 7y^3 + 4y^2 - y + 1)$ $\cdot (y^{33} - 36y^{32} + \cdots + 44853489y - 3236401)$
c_{11}	$(y^{10} - y^9 + 4y^8 - 7y^7 + 9y^6 - 16y^5 + 21y^4 - 13y^3 + 13y^2 - 11y + 1)$ $\cdot (y^{33} + 2y^{32} + \cdots - 17y - 1)$