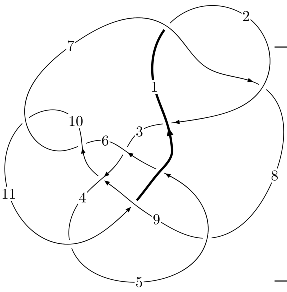
$11n_{147}$ ($K11n_{147}$)



A knot diagram[1]

Linearized knot diagam

$$\to \downarrow \to \downarrow \to \downarrow \to \uparrow \to \downarrow \to \downarrow \to \downarrow \to \downarrow \to \uparrow \to \downarrow \to \uparrow \to$$

7 1 6 11 1 10 2 5 4 7 9

Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 1.98756 \times 10^{46} u^{32} + 1.28266 \times 10^{46} u^{31} + \cdots + 1.35435 \times 10^{47} b + 2.77751 \times 10^{46}, \\
& 2.97484 \times 10^{47} u^{32} + 3.19635 \times 10^{47} u^{31} + \cdots + 1.35435 \times 10^{47} a + 4.86114 \times 10^{48},\ u^{33} + u^{32} + \cdots + 14u + 1 \\
I_2^u = \langle & u^{14} - 3u^{12} - u^{11} + u^{10} + 2u^9 + 7u^8 - 4u^7 - 11u^6 + 4u^5 + 6u^4 - 5u^3 - u^2 + b, \\
& -73u^{14} + 113u^{13} + \cdots + 19a + 238, \\
& u^{15} - 4u^{13} - u^{12} + 4u^{11} + 3u^{10} + 6u^9 - 6u^8 - 18u^7 + 8u^6 + 17u^5 - 9u^4 - 7u^3 + 5u^2 + u - 1\rangle
\end{aligned}$$

* 2 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.

$\boldsymbol{I_1^u = \langle 1.99\times 10^{46}u^{32} + 1.28\times 10^{46}u^{31} + \cdots + 1.35\times 10^{47}b + 2.78\times 10^{46},\ 2.97\times 10^{47}u^{32} + 3.20\times 10^{47}u^{31} + \cdots + 1.35\times 10^{47}a + 4.86\times 10^{48},\ u^{33} + u^{32} + \cdots + 14u + 1\rangle}$

(i) Arc colorings

$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -2.19651u^{32} - 2.36006u^{31} + \cdots - 288.611u - 35.8928 \\ -0.146754u^{32} - 0.0947065u^{31} + \cdots - 10.0032u - 0.205081 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -2.39829u^{32} - 2.50756u^{31} + \cdots - 303.100u - 36.2614 \\ -0.153523u^{32} - 0.103389u^{31} + \cdots - 10.5613u - 0.259363 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -2.25912u^{32} - 2.42484u^{31} + \cdots - 293.679u - 36.1084 \\ -0.209360u^{32} - 0.159488u^{31} + \cdots - 15.0713u - 0.420679 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1.41506u^{32} + 1.04966u^{31} + \cdots + 69.0722u - 12.5718 \\ -0.0802570u^{32} - 0.116578u^{31} + \cdots - 12.6183u - 1.15166 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1.63104u^{32} - 1.63496u^{31} + \cdots - 199.736u - 22.5435 \\ -0.0316774u^{32} - 0.0129877u^{31} + \cdots - 6.21518u - 0.0761096 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -1.63104u^{32} - 1.63496u^{31} + \cdots - 199.736u - 22.5435 \\ -0.00657502u^{32} - 0.00502953u^{31} + \cdots - 4.52928u - 0.0721915 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 2.50333u^{32} + 2.57261u^{31} + \cdots + 314.930u + 36.4507 \\ 0.0683064u^{32} + 0.0388114u^{31} + \cdots + 8.35580u + 0.120011 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 2.50333u^{32} + 2.57261u^{31} + \cdots + 314.930u + 36.4507 \\ 0.0683064u^{32} + 0.0388114u^{31} + \cdots + 8.35580u + 0.120011 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 1.80265u^{32} + 1.77164u^{31} + \cdots + 131.190u - 2.63139$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{33} - u^{32} + \cdots - 377u + 49$
c_2	$u^{33} + 51u^{32} + \cdots - 6243u + 2401$
c_3	$u^{33} + 4u^{32} + \cdots + 1014u + 53$
c_4	$u^{33} - 3u^{32} + \cdots + 143u + 167$
c_5	$u^{33} - 31u^{31} + \cdots + 31219u + 7513$
c_6, c_{10}	$u^{33} + u^{32} + \cdots + 14u + 1$
c_8	$u^{33} + 3u^{32} + \cdots + 43957u + 23657$
c_9	$u^{33} + u^{32} + \cdots - 194u + 69$
c_{11}	$u^{33} + 2u^{32} + \cdots + 12u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{33} - 51y^{32} + \cdots - 6243y - 2401$
c_2	$y^{33} - 127y^{32} + \cdots - 823598607y - 5764801$
c_3	$y^{33} - 62y^{32} + \cdots + 1267120y - 2809$
c_4	$y^{33} + 13y^{32} + \cdots + 203815y - 27889$
c_5	$y^{33} - 62y^{32} + \cdots - 187379697y - 56445169$
c_6, c_{10}	$y^{33} - 31y^{32} + \cdots - 58y - 1$
c_8	$y^{33} - 35y^{32} + \cdots + 2107894731y - 559653649$
c_9	$y^{33} + 13y^{32} + \cdots - 3488y - 4761$
c_{11}	$y^{33} + 4y^{32} + \cdots + 94y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.127190 + 0.291980I$ $a = 0.90634 + 1.24177I$ $b = -0.280294 + 0.848945I$	$-4.91531 - 2.57543I$	$-14.7490 + 3.5042I$
$u = 1.127190 - 0.291980I$ $a = 0.90634 - 1.24177I$ $b = -0.280294 - 0.848945I$	$-4.91531 + 2.57543I$	$-14.7490 - 3.5042I$
$u = -0.258449 + 1.156160I$ $a = 0.118269 + 0.247166I$ $b = 0.381205 - 0.236102I$	$2.26695 + 2.07000I$	$4.04253 + 2.66758I$
$u = -0.258449 - 1.156160I$ $a = 0.118269 - 0.247166I$ $b = 0.381205 + 0.236102I$	$2.26695 - 2.07000I$	$4.04253 - 2.66758I$
$u = -1.214840 + 0.304735I$ $a = -0.676508 + 1.000140I$ $b = -0.363295 + 1.180830I$	$-2.65106 + 0.57067I$	$-7.43301 + 1.59468I$
$u = -1.214840 - 0.304735I$ $a = -0.676508 - 1.000140I$ $b = -0.363295 - 1.180830I$	$-2.65106 - 0.57067I$	$-7.43301 - 1.59468I$
$u = -1.203030 + 0.458288I$ $a = -0.26246 + 1.71772I$ $b = 1.23330 + 1.31569I$	$-4.39762 + 3.59048I$	$-13.6557 - 4.4501I$
$u = -1.203030 - 0.458288I$ $a = -0.26246 - 1.71772I$ $b = 1.23330 - 1.31569I$	$-4.39762 - 3.59048I$	$-13.6557 + 4.4501I$
$u = 1.235800 + 0.362699I$ $a = -0.03086 + 1.63923I$ $b = -0.508343 + 0.929615I$	$-1.99613 - 4.92165I$	$-6.31797 + 5.98553I$
$u = 1.235800 - 0.362699I$ $a = -0.03086 - 1.63923I$ $b = -0.508343 - 0.929615I$	$-1.99613 + 4.92165I$	$-6.31797 - 5.98553I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.569481$ $a=-0.688600$ $b=-0.604199$	-1.00066	-10.2820
$u=-0.173547+0.479626I$ $a=-0.525769-0.734371I$ $b=-0.526827+0.796028I$	$-1.45039+0.21379I$	$-8.69019-1.03252I$
$u=-0.173547-0.479626I$ $a=-0.525769+0.734371I$ $b=-0.526827-0.796028I$	$-1.45039-0.21379I$	$-8.69019+1.03252I$
$u=0.129625+0.488487I$ $a=-0.477469+0.473795I$ $b=0.889420+0.379105I$	$1.34993+1.55576I$	$0.80167-1.35691I$
$u=0.129625-0.488487I$ $a=-0.477469-0.473795I$ $b=0.889420-0.379105I$	$1.34993-1.55576I$	$0.80167+1.35691I$
$u=-1.52232+0.04381I$ $a=-0.703268-0.941307I$ $b=0.711491-0.715800I$	$-14.5102-1.0864I$	$-12.76434+6.06201I$
$u=-1.52232-0.04381I$ $a=-0.703268+0.941307I$ $b=0.711491+0.715800I$	$-14.5102+1.0864I$	$-12.76434-6.06201I$
$u=-0.078681+0.424703I$ $a=-0.651126+0.856956I$ $b=-0.868396-0.574824I$	$0.04954+4.46270I$	$-2.71293-8.43854I$
$u=-0.078681-0.424703I$ $a=-0.651126-0.856956I$ $b=-0.868396+0.574824I$	$0.04954-4.46270I$	$-2.71293+8.43854I$
$u=1.59376+0.04874I$ $a=-0.476576-0.859038I$ $b=-1.93979-1.30100I$	$-15.3428-2.1802I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.59376 - 0.04874I$ $a = -0.476576 + 0.859038I$ $b = -1.93979 + 1.30100I$	$-15.3428 + 2.1802I$	0
$u = 1.62635 + 0.11374I$ $a = 0.254364 - 1.108810I$ $b = 0.80851 - 1.54572I$	$-6.41445 - 6.00796I$	0
$u = 1.62635 - 0.11374I$ $a = 0.254364 + 1.108810I$ $b = 0.80851 + 1.54572I$	$-6.41445 + 6.00796I$	0
$u = -1.65170 + 0.20395I$ $a = 0.329105 - 0.879132I$ $b = -0.047223 - 1.078280I$	$-5.75926 - 1.26707I$	0
$u = -1.65170 - 0.20395I$ $a = 0.329105 + 0.879132I$ $b = -0.047223 + 1.078280I$	$-5.75926 + 1.26707I$	0
$u = 0.17496 + 1.66747I$ $a = -0.0254572 - 0.0404340I$ $b = 0.312479 - 1.241810I$	$-11.57590 - 4.55852I$	0
$u = 0.17496 - 1.66747I$ $a = -0.0254572 + 0.0404340I$ $b = 0.312479 + 1.241810I$	$-11.57590 + 4.55852I$	0
$u = -1.65356 + 0.67060I$ $a = 0.202508 - 1.183540I$ $b = -1.06866 - 1.49216I$	$-17.3332 + 12.6517I$	0
$u = -1.65356 - 0.67060I$ $a = 0.202508 + 1.183540I$ $b = -1.06866 + 1.49216I$	$-17.3332 - 12.6517I$	0
$u = -0.0667735 + 0.0884449I$ $a = -16.3648 - 15.7170I$ $b = 0.429817 - 0.686138I$	$-9.04777 + 1.61427I$	$-11.19487 + 6.80933I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.0667735 - 0.0884449I$ $a = -16.3648 + 15.7170I$ $b = 0.429817 + 0.686138I$	$-9.04777 - 1.61427I$	$-11.19487 - 6.80933I$
$u = 1.71996 + 0.81176I$ $a = -0.271982 - 0.744516I$ $b = 0.638698 - 1.235990I$	$-16.3377 - 4.4651I$	0
$u = 1.71996 - 0.81176I$ $a = -0.271982 + 0.744516I$ $b = 0.638698 + 1.235990I$	$-16.3377 + 4.4651I$	0

II. $\boldsymbol{I_2^u = \langle u^{14} - 3u^{12} + \cdots - u^2 + b,\ -73u^{14} + 113u^{13} + \cdots + 19a + 238,\ u^{15} - 4u^{13} + \cdots + u - 1\rangle}$

(i) Arc colorings

$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 3.84211u^{14} - 5.94737u^{13} + \cdots + 24.1053u - 12.5263 \\ -u^{14} + 3u^{12} + \cdots + 5u^3 + u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.526316u^{14} - 3.84211u^{13} + \cdots + 14.3158u - 6.57895 \\ -3.36842u^{14} + 0.789474u^{13} + \cdots - 5.42105u + 2.10526 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.526316u^{14} - 3.84211u^{13} + \cdots + 13.3158u - 6.57895 \\ -4.31579u^{14} + 2.10526u^{13} + \cdots - 10.7895u + 5.94737 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -9.31579u^{14} + 4.10526u^{13} + \cdots - 29.7895u + 8.94737 \\ -3u^{13} + 10u^{11} + \cdots + 4u - 4 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.526316u^{14} + 3.84211u^{13} + \cdots - 9.31579u + 7.57895 \\ -5.47368u^{14} + 8.15789u^{13} + \cdots - 28.6842u + 17.4211 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.526316u^{14} + 3.84211u^{13} + \cdots - 9.31579u + 7.57895 \\ -6.42105u^{14} + 9.47368u^{13} + \cdots - 33.0526u + 21.2632 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 3.94737u^{14} - 4.31579u^{13} + \cdots + 14.3684u - 10.8421 \\ 6.57895u^{14} - 10.5263u^{13} + \cdots + 36.9474u - 21.7368 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 3.94737u^{14} - 4.31579u^{13} + \cdots + 14.3684u - 10.8421 \\ 6.57895u^{14} - 10.5263u^{13} + \cdots + 36.9474u - 21.7368 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{124}{19}u^{14} + \frac{301}{19}u^{13} + \frac{478}{19}u^{12} - \frac{941}{19}u^{11} - \frac{746}{19}u^{10} + \frac{339}{19}u^9 - \frac{2}{19}u^8 + \frac{2898}{19}u^7 + \frac{696}{19}u^6 - \frac{5366}{19}u^5 - \frac{218}{19}u^4 + \frac{4007}{19}u^3 - \frac{1063}{19}u^2 - \frac{1032}{19}u + \frac{296}{19}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{15}-8u^{13}+\cdots-4u-1$
c_2	$u^{15}+16u^{14}+\cdots+18u+1$
c_3	$u^{15}-11u^{14}+\cdots+73u-19$
c_4	$u^{15}-2u^{13}+\cdots-2u-1$
c_5	$u^{15}-u^{14}+\cdots-4u-1$
c_6	$u^{15}-4u^{13}+\cdots+u+1$
c_7	$u^{15}-8u^{13}+\cdots-4u+1$
c_8	$u^{15}-2u^{13}+\cdots+2u+1$
c_9	$u^{15}+2u^{12}+3u^{10}+4u^8+6u^7-6u^6+10u^5+5u^4-2u^3+6u^2-u+1$
c_{10}	$u^{15}-4u^{13}+\cdots+u-1$
c_{11}	$u^{15}-3u^{14}+\cdots+3u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{15} - 16y^{14} + \cdots + 18y - 1$
c_2	$y^{15} - 24y^{14} + \cdots + 2y - 1$
c_3	$y^{15} - 19y^{14} + \cdots + 1529y - 361$
c_4	$y^{15} - 4y^{14} + \cdots - 12y - 1$
c_5	$y^{15} - 7y^{14} + \cdots - 8y - 1$
c_6, c_{10}	$y^{15} - 8y^{14} + \cdots + 11y - 1$
c_8	$y^{15} - 4y^{14} + \cdots - 4y - 1$
c_9	$y^{15} - 4y^{12} + \cdots - 11y - 1$
c_{11}	$y^{15} - y^{14} + \cdots + 7y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.016610 + 0.431054I$ $a = -0.855984 + 1.067750I$ $b = 0.281730 + 1.208910I$	$-3.57736 + 1.80398I$	$-10.22776 - 1.35849I$
$u = -1.016610 - 0.431054I$ $a = -0.855984 - 1.067750I$ $b = 0.281730 - 1.208910I$	$-3.57736 - 1.80398I$	$-10.22776 + 1.35849I$
$u = 1.145500 + 0.390052I$ $a = -0.03040 + 1.79678I$ $b = -0.645353 + 1.166310I$	$-2.97120 - 6.42822I$	$-8.47318 + 7.69759I$
$u = 1.145500 - 0.390052I$ $a = -0.03040 - 1.79678I$ $b = -0.645353 - 1.166310I$	$-2.97120 + 6.42822I$	$-8.47318 - 7.69759I$
$u = 0.694258 + 0.135962I$ $a = -0.274946 + 0.699949I$ $b = 1.072130 + 0.630700I$	$-0.80659 + 4.08294I$	$-10.81787 - 3.73998I$
$u = 0.694258 - 0.135962I$ $a = -0.274946 - 0.699949I$ $b = 1.072130 - 0.630700I$	$-0.80659 - 4.08294I$	$-10.81787 + 3.73998I$
$u = -0.681806 + 0.019577I$ $a = -0.553972 - 0.968044I$ $b = -1.268190 + 0.099774I$	$0.12222 - 1.54750I$	$-8.44941 + 2.09198I$
$u = -0.681806 - 0.019577I$ $a = -0.553972 + 0.968044I$ $b = -1.268190 - 0.099774I$	$0.12222 + 1.54750I$	$-8.44941 - 2.09198I$
$u = 0.510989 + 0.449107I$ $a = 3.49622 - 0.96709I$ $b = 0.250601 + 0.599760I$	$-9.05250 - 2.11036I$	$-11.5344 + 8.6463I$
$u = 0.510989 - 0.449107I$ $a = 3.49622 + 0.96709I$ $b = 0.250601 - 0.599760I$	$-9.05250 + 2.11036I$	$-11.5344 - 8.6463I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.149147+1.334590I$ $a=\ \ 0.156974-0.043596I$ $b=\ \ 0.015421+0.481518I$	$1.95997+2.29980I$	$-12.9306-8.8872I$
$u=-0.149147-1.334590I$ $a=\ \ 0.156974+0.043596I$ $b=\ \ 0.015421-0.481518I$	$1.95997-2.29980I$	$-12.9306+8.8872I$
$u=-1.292720+0.392522I$ $a=-0.131181+1.312820I$ $b=\ \ 0.822319+0.854855I$	$-3.07019+3.17344I$	$-7.31876-2.82917I$
$u=-1.292720-0.392522I$ $a=-0.131181-1.312820I$ $b=\ \ 0.822319-0.854855I$	$-3.07019-3.17344I$	$-7.31876+2.82917I$
$u=\ \ 1.57907$ $a=\ \ 0.386597$ $b=-1.05733$	-14.5567	-11.4960

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{15} - 8u^{13} + \cdots - 4u - 1)(u^{33} - u^{32} + \cdots - 377u + 49)$
c_2	$(u^{15} + 16u^{14} + \cdots + 18u + 1)(u^{33} + 51u^{32} + \cdots - 6243u + 2401)$
c_3	$(u^{15} - 11u^{14} + \cdots + 73u - 19)(u^{33} + 4u^{32} + \cdots + 1014u + 53)$
c_4	$(u^{15} - 2u^{13} + \cdots - 2u - 1)(u^{33} - 3u^{32} + \cdots + 143u + 167)$
c_5	$(u^{15} - u^{14} + \cdots - 4u - 1)(u^{33} - 31u^{31} + \cdots + 31219u + 7513)$
c_6	$(u^{15} - 4u^{13} + \cdots + u + 1)(u^{33} + u^{32} + \cdots + 14u + 1)$
c_7	$(u^{15} - 8u^{13} + \cdots - 4u + 1)(u^{33} - u^{32} + \cdots - 377u + 49)$
c_8	$(u^{15} - 2u^{13} + \cdots + 2u + 1)(u^{33} + 3u^{32} + \cdots + 43957u + 23657)$
c_9	$(u^{15} + 2u^{12} + 3u^{10} + 4u^8 + 6u^7 - 6u^6 + 10u^5 + 5u^4 - 2u^3 + 6u^2 - u + 1)$ $\cdot (u^{33} + u^{32} + \cdots - 194u + 69)$
c_{10}	$(u^{15} - 4u^{13} + \cdots + u - 1)(u^{33} + u^{32} + \cdots + 14u + 1)$
c_{11}	$(u^{15} - 3u^{14} + \cdots + 3u + 1)(u^{33} + 2u^{32} + \cdots + 12u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_7	$(y^{15}-16y^{14}+\cdots+18y-1)(y^{33}-51y^{32}+\cdots-6243y-2401)$
c_2	$(y^{15}-24y^{14}+\cdots+2y-1)$ $\cdot(y^{33}-127y^{32}+\cdots-823598607y-5764801)$
c_3	$(y^{15}-19y^{14}+\cdots+1529y-361)$ $\cdot(y^{33}-62y^{32}+\cdots+1267120y-2809)$
c_4	$(y^{15}-4y^{14}+\cdots-12y-1)(y^{33}+13y^{32}+\cdots+203815y-27889)$
c_5	$(y^{15}-7y^{14}+\cdots-8y-1)$ $\cdot(y^{33}-62y^{32}+\cdots-187379697y-56445169)$
c_6, c_{10}	$(y^{15}-8y^{14}+\cdots+11y-1)(y^{33}-31y^{32}+\cdots-58y-1)$
c_8	$(y^{15}-4y^{14}+\cdots-4y-1)$ $\cdot(y^{33}-35y^{32}+\cdots+2107894731y-559653649)$
c_9	$(y^{15}-4y^{12}+\cdots-11y-1)(y^{33}+13y^{32}+\cdots-3488y-4761)$
c_{11}	$(y^{15}-y^{14}+\cdots+7y-1)(y^{33}+4y^{32}+\cdots+94y-1)$