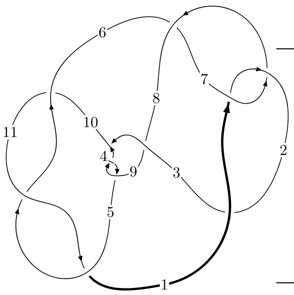
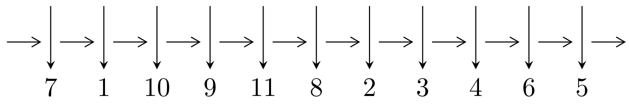
$11a_{237}$ ($K11a_{237}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle b - u,\ u^{19} - u^{18} + \cdots + 4a + 1,\ u^{20} + 11u^{18} + \cdots + 3u - 1\rangle$$
$$I_2^u = \langle -159484971u^{29} + 121594878u^{28} + \cdots + 957162536b + 570195911,\ -u^{29} + u^{28} + \cdots + a + 6,$$
$$u^{30} - u^{29} + \cdots - 6u + 1\rangle$$
$$I_3^u = \langle b + u,\ a^2 - 2au - a + u,\ u^2 + 1\rangle$$

* 3 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. $I_1^u = \langle b - u,\ u^{19} - u^{18} + \cdots + 4a + 1,\ u^{20} + 11u^{18} + \cdots + 3u - 1\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -\frac{1}{4}u^{19} + \frac{1}{4}u^{18} + \cdots + 3u - \frac{1}{4} \\ u \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -\frac{1}{4}u^{19} + \frac{1}{4}u^{18} + \cdots + 4u - \frac{1}{4} \\ u \end{pmatrix}$$
$$a_5 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -\frac{1}{4}u^{19} + \frac{1}{4}u^{18} + \cdots + 5u - \frac{1}{4} \\ \frac{1}{4}u^{19} - \frac{1}{4}u^{18} + \cdots + u^2 + \frac{1}{4} \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -\frac{1}{4}u^{19} - \frac{1}{4}u^{18} + \cdots - \frac{1}{2}u + \frac{5}{4} \\ -u^2 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -\frac{1}{4}u^{19} - \frac{1}{4}u^{18} + \cdots - \frac{1}{2}u + \frac{5}{4} \\ -u^4 - 2u^2 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} \frac{1}{2}u^{19} + \frac{1}{2}u^{18} + \cdots + \frac{5}{2}u^2 - 2u \\ \frac{1}{4}u^{19} - \frac{1}{4}u^{18} + \cdots + u^2 + \frac{1}{4} \end{pmatrix}$$
$$a_7 = \begin{pmatrix} \frac{1}{2}u^{19} + \frac{1}{2}u^{18} + \cdots + \frac{5}{2}u^2 - 2u \\ \frac{1}{4}u^{19} - \frac{1}{4}u^{18} + \cdots + u^2 + \frac{1}{4} \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -2u^{19} - 21u^{17} - 3u^{16} - 91u^{15} - 30u^{14} - 202u^{13} - 119u^{12} - 224u^{11} - 227u^{10} - 84u^9 - 181u^8 + 22u^7 + 14u^6 - 22u^5 + 64u^4 - 28u^3 - 25u^2 + 12u - 19$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{20} + 3u^{19} + \cdots - 9u - 2$
c_2, c_6	$u^{20} + 7u^{19} + \cdots + 33u + 4$
c_3, c_4, c_5 c_9, c_{10}, c_{11}	$u^{20} + 11u^{18} + \cdots - 3u - 1$
c_8	$u^{20} - 3u^{19} + \cdots - 48u - 32$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{20} - 7y^{19} + \cdots - 33y + 4$
c_2, c_6	$y^{20} + 13y^{19} + \cdots - 561y + 16$
c_3, c_4, c_5 c_9, c_{10}, c_{11}	$y^{20} + 22y^{19} + \cdots - 5y + 1$
c_8	$y^{20} - y^{19} + \cdots + 3328y + 1024$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.711644 + 0.213665I$ $a = -0.992229 + 0.085972I$ $b = -0.711644 + 0.213665I$	$-0.77253 + 5.59830I$	$-13.4954 - 6.8250I$
$u = -0.711644 - 0.213665I$ $a = -0.992229 - 0.085972I$ $b = -0.711644 - 0.213665I$	$-0.77253 - 5.59830I$	$-13.4954 + 6.8250I$
$u = -0.714807$ $a = -0.946170$ $b = -0.714807$	-4.75848	-19.2850
$u = 0.147507 + 1.344930I$ $a = 1.07486 - 2.87571I$ $b = 0.147507 + 1.344930I$	$5.87096 + 0.28405I$	$-5.48153 - 0.41216I$
$u = 0.147507 - 1.344930I$ $a = 1.07486 + 2.87571I$ $b = 0.147507 - 1.344930I$	$5.87096 - 0.28405I$	$-5.48153 + 0.41216I$
$u = 0.601815 + 0.228236I$ $a = 0.950028 + 0.149217I$ $b = 0.601815 + 0.228236I$	$0.157185 - 0.414126I$	$-12.01664 + 2.08787I$
$u = 0.601815 - 0.228236I$ $a = 0.950028 - 0.149217I$ $b = 0.601815 - 0.228236I$	$0.157185 + 0.414126I$	$-12.01664 - 2.08787I$
$u = 0.280299 + 1.365240I$ $a = 1.37177 - 2.14002I$ $b = 0.280299 + 1.365240I$	$3.92725 - 7.17367I$	$-8.70322 + 5.73165I$
$u = 0.280299 - 1.365240I$ $a = 1.37177 + 2.14002I$ $b = 0.280299 - 1.365240I$	$3.92725 + 7.17367I$	$-8.70322 - 5.73165I$
$u = -0.20040 + 1.40896I$ $a = -1.00049 - 2.38403I$ $b = -0.20040 + 1.40896I$	$8.53664 + 4.27425I$	$-2.38649 - 3.51536I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.20040-1.40896I$ $a=-1.00049+2.38403I$ $b=-0.20040-1.40896I$	$8.53664-4.27425I$	$-2.38649+3.51536I$
$u=0.35253+1.44249I$ $a=1.15928-1.78353I$ $b=0.35253+1.44249I$	$9.8480-13.6547I$	$-5.09222+8.08354I$
$u=0.35253-1.44249I$ $a=1.15928+1.78353I$ $b=0.35253-1.44249I$	$9.8480+13.6547I$	$-5.09222-8.08354I$
$u=-0.32179+1.45317I$ $a=-1.09427-1.86772I$ $b=-0.32179+1.45317I$	$11.02130+7.69202I$	$-3.25100-3.40395I$
$u=-0.32179-1.45317I$ $a=-1.09427+1.86772I$ $b=-0.32179-1.45317I$	$11.02130-7.69202I$	$-3.25100+3.40395I$
$u=0.074422+0.475930I$ $a=0.299691+1.194600I$ $b=0.074422+0.475930I$	$1.45151-2.34993I$	$-9.21397+4.74077I$
$u=0.074422-0.475930I$ $a=0.299691-1.194600I$ $b=0.074422-0.475930I$	$1.45151+2.34993I$	$-9.21397-4.74077I$
$u=-0.02313+1.54067I$ $a=-0.08257-2.23973I$ $b=-0.02313+1.54067I$	$15.2534+3.0855I$	$-1.70716-2.62885I$
$u=-0.02313-1.54067I$ $a=-0.08257+2.23973I$ $b=-0.02313-1.54067I$	$15.2534-3.0855I$	$-1.70716+2.62885I$
$u=0.315603$ $a=0.574029$ $b=0.315603$	-0.553031	-18.0200

II. $\boldsymbol{I_2^u = \langle -1.59\times 10^8u^{29} + 1.22\times 10^8u^{28} + \cdots + 9.57\times 10^7b + 5.70\times 10^8,\ -u^{29} + u^{28} + \cdots + a + 6,\ u^{30} - u^{29} + \cdots - 6u + 1\rangle}$

(i) Arc colorings

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

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

$$a_4 = \begin{pmatrix} u^{29} - u^{28} + \cdots + 10u - 6 \\ 1.66623u^{29} - 1.27037u^{28} + \cdots + 17.4027u - 5.95715 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 2.66623u^{29} - 2.27037u^{28} + \cdots + 27.4027u - 11.9571 \\ 1.66623u^{29} - 1.27037u^{28} + \cdots + 17.4027u - 5.95715 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 4.72929u^{29} - 3.69976u^{28} + \cdots + 46.3017u - 17.7300 \\ 2.22042u^{29} - 1.73024u^{28} + \cdots + 21.0519u - 7.17018 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 5.95715u^{29} - 4.29092u^{28} + \cdots + 56.4198u - 17.3402 \\ 0.395859u^{29} + 0.105883u^{28} + \cdots + 4.04021u - 0.666227 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 5.19351u^{29} - 3.62763u^{28} + \cdots + 49.7650u - 14.1723 \\ -0.367778u^{29} + 0.769175u^{28} + \cdots - 2.61459u + 1.50174 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -6.74902u^{29} + 4.86232u^{28} + \cdots - 65.5259u + 23.3729 \\ -2.01973u^{29} + 1.16256u^{28} + \cdots - 17.2242u + 5.64291 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -6.74902u^{29} + 4.86232u^{28} + \cdots - 65.5259u + 23.3729 \\ -2.01973u^{29} + 1.16256u^{28} + \cdots - 17.2242u + 5.64291 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= \frac{583799292}{95716253}u^{29} - \frac{406184408}{95716253}u^{28} + \cdots + \frac{4386525380}{95716253}u - \frac{2570388306}{95716253}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$(u^{15} - u^{14} + \cdots + 2u - 1)^2$
c_2, c_6	$(u^{15} + 5u^{14} + \cdots + 12u^3 + 1)^2$
c_3, c_4, c_5 c_9, c_{10}, c_{11}	$u^{30} + u^{29} + \cdots + 6u + 1$
c_8	$(u^{15} + u^{14} + \cdots - 4u - 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$(y^{15} - 5y^{14} + \cdots + 12y^3 - 1)^2$
c_2, c_6	$(y^{15} + 11y^{14} + \cdots - 84y^2 - 1)^2$
c_3, c_4, c_5 c_9, c_{10}, c_{11}	$y^{30} + 23y^{29} + \cdots - 16y + 1$
c_8	$(y^{15} - y^{14} + \cdots + 16y - 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.171252 + 1.009920I$ $a = 0.163210 + 0.962498I$ $b = 0.318180 + 0.052816I$	$1.46912 - 2.07402I$	$-11.82822 + 2.67122I$
$u = -0.171252 - 1.009920I$ $a = 0.163210 - 0.962498I$ $b = 0.318180 - 0.052816I$	$1.46912 + 2.07402I$	$-11.82822 - 2.67122I$
$u = -0.607011 + 0.856391I$ $a = 0.550893 + 0.777218I$ $b = -0.108390 - 1.374740I$	$6.82325 + 1.50523I$	$-3.84867 - 2.74048I$
$u = -0.607011 - 0.856391I$ $a = 0.550893 - 0.777218I$ $b = -0.108390 + 1.374740I$	$6.82325 - 1.50523I$	$-3.84867 + 2.74048I$
$u = 0.879105 + 0.290763I$ $a = -1.025350 + 0.339134I$ $b = -0.28507 - 1.38638I$	$4.31617 - 9.21780I$	$-8.14540 + 7.39135I$
$u = 0.879105 - 0.290763I$ $a = -1.025350 - 0.339134I$ $b = -0.28507 + 1.38638I$	$4.31617 + 9.21780I$	$-8.14540 - 7.39135I$
$u = -0.836240 + 0.341718I$ $a = 1.024720 + 0.418737I$ $b = 0.241243 - 1.382540I$	$5.27292 + 3.51852I$	$-6.28698 - 2.59027I$
$u = -0.836240 - 0.341718I$ $a = 1.024720 - 0.418737I$ $b = 0.241243 + 1.382540I$	$5.27292 - 3.51852I$	$-6.28698 + 2.59027I$
$u = 0.587196 + 0.946781I$ $a = -0.473090 + 0.762799I$ $b = 0.171749 - 1.369410I$	$6.30676 + 4.09199I$	$-4.95573 - 3.15094I$
$u = 0.587196 - 0.946781I$ $a = -0.473090 - 0.762799I$ $b = 0.171749 + 1.369410I$	$6.30676 - 4.09199I$	$-4.95573 + 3.15094I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.269205 + 1.103370I$ $a = -0.208705 + 0.855397I$ $b = 0.269205 - 1.103370I$	1.86559	$-10.56339 + 0.I$
$u = 0.269205 - 1.103370I$ $a = -0.208705 - 0.855397I$ $b = 0.269205 + 1.103370I$	1.86559	$-10.56339 + 0.I$
$u = 0.119824 + 1.236680I$ $a = -0.077620 + 0.801099I$ $b = -0.505429 - 0.368881I$	$2.93870 - 1.66084I$	$-6.48958 + 3.96405I$
$u = 0.119824 - 1.236680I$ $a = -0.077620 - 0.801099I$ $b = -0.505429 + 0.368881I$	$2.93870 + 1.66084I$	$-6.48958 - 3.96405I$
$u = 0.706910 + 0.161570I$ $a = -1.344380 + 0.307269I$ $b = -0.280017 - 1.247240I$	$-0.91830 - 3.60340I$	$-14.1637 + 4.4767I$
$u = 0.706910 - 0.161570I$ $a = -1.344380 - 0.307269I$ $b = -0.280017 + 1.247240I$	$-0.91830 + 3.60340I$	$-14.1637 - 4.4767I$
$u = -0.280017 + 1.247240I$ $a = 0.171369 + 0.763299I$ $b = 0.706910 - 0.161570I$	$-0.91830 + 3.60340I$	$-14.1637 - 4.4767I$
$u = -0.280017 - 1.247240I$ $a = 0.171369 - 0.763299I$ $b = 0.706910 + 0.161570I$	$-0.91830 - 3.60340I$	$-14.1637 + 4.4767I$
$u = -0.505429 + 0.368881I$ $a = 1.29090 + 0.94215I$ $b = 0.119824 - 1.236680I$	$2.93870 + 1.66084I$	$-6.48958 - 3.96405I$
$u = -0.505429 - 0.368881I$ $a = 1.29090 - 0.94215I$ $b = 0.119824 + 1.236680I$	$2.93870 - 1.66084I$	$-6.48958 + 3.96405I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.108390+1.374740I$ $a=\ \ 0.056998+0.722915I$ $b=-0.607011-0.856391I$	$6.82325-1.50523I$	$-3.84867+2.74048I$
$u=-0.108390-1.374740I$ $a=\ \ 0.056998-0.722915I$ $b=-0.607011+0.856391I$	$6.82325+1.50523I$	$-3.84867-2.74048I$
$u=\ \ 0.171749+1.369410I$ $a=-0.090167+0.718933I$ $b=\ \ 0.587196-0.946781I$	$6.30676-4.09199I$	$-4.95573+3.15094I$
$u=\ \ 0.171749-1.369410I$ $a=-0.090167-0.718933I$ $b=\ \ 0.587196+0.946781I$	$6.30676+4.09199I$	$-4.95573-3.15094I$
$u=\ \ 0.241243+1.382540I$ $a=-0.122482+0.701932I$ $b=-0.836240-0.341718I$	$5.27292-3.51852I$	$-6.28698+2.59027I$
$u=\ \ 0.241243-1.382540I$ $a=-0.122482-0.701932I$ $b=-0.836240+0.341718I$	$5.27292+3.51852I$	$-6.28698-2.59027I$
$u=-0.28507+1.38638I$ $a=\ \ 0.142301+0.692043I$ $b=\ \ 0.879105-0.290763I$	$4.31617+9.21780I$	$-8.14540-7.39135I$
$u=-0.28507-1.38638I$ $a=\ \ 0.142301-0.692043I$ $b=\ \ 0.879105+0.290763I$	$4.31617-9.21780I$	$-8.14540+7.39135I$
$u=\ \ 0.318180+0.052816I$ $a=-3.05860+0.50771I$ $b=-0.171252+1.009920I$	$1.46912-2.07402I$	$-11.82822+2.67122I$
$u=\ \ 0.318180-0.052816I$ $a=-3.05860-0.50771I$ $b=-0.171252-1.009920I$	$1.46912+2.07402I$	$-11.82822-2.67122I$

III. $I_3^u = \langle b + u,\ a^2 - 2au - a + u,\ u^2 + 1\rangle$

(i) Arc colorings

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

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 4a - 4u - 8$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

	Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u =$	$1.000000I$		
$a =$	$0.500000 + 0.133975I$	$3.28987 + 2.02988I$	$-6.00000 - 3.46410I$
$b =$	$-\ 1.000000I$		
$u =$	$1.000000I$		
$a =$	$0.50000 + 1.86603I$	$3.28987 - 2.02988I$	$-6.00000 + 3.46410I$
$b =$	$-\ 1.000000I$		
$u =$	$-\ 1.000000I$		
$a =$	$0.500000 - 0.133975I$	$3.28987 - 2.02988I$	$-6.00000 + 3.46410I$
$b =$	$1.000000I$		
$u =$	$-\ 1.000000I$		
$a =$	$0.50000 - 1.86603I$	$3.28987 + 2.02988I$	$-6.00000 - 3.46410I$
$b =$	$1.000000I$		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_7	$(u^4-u^2+1)(u^{15}-u^{14}+\cdots+2u-1)^2(u^{20}+3u^{19}+\cdots-9u-2)$
c_2	$((u^2+u+1)^2)(u^{15}+5u^{14}+\cdots+12u^3+1)^2$ $\cdot(u^{20}+7u^{19}+\cdots+33u+4)$
c_3, c_4, c_5 c_9, c_{10}, c_{11}	$((u^2+1)^2)(u^{20}+11u^{18}+\cdots-3u-1)(u^{30}+u^{29}+\cdots+6u+1)$
c_6	$((u^2-u+1)^2)(u^{15}+5u^{14}+\cdots+12u^3+1)^2$ $\cdot(u^{20}+7u^{19}+\cdots+33u+4)$
c_8	$u^4(u^{15}+u^{14}+\cdots-4u-1)^2(u^{20}-3u^{19}+\cdots-48u-32)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_7	$((y^2 - y + 1)^2)(y^{15} - 5y^{14} + \cdots + 12y^3 - 1)^2$ $\cdot (y^{20} - 7y^{19} + \cdots - 33y + 4)$
c_2, c_6	$((y^2 + y + 1)^2)(y^{15} + 11y^{14} + \cdots - 84y^2 - 1)^2$ $\cdot (y^{20} + 13y^{19} + \cdots - 561y + 16)$
c_3, c_4, c_5 c_9, c_{10}, c_{11}	$((y+1)^4)(y^{20} + 22y^{19} + \cdots - 5y + 1)(y^{30} + 23y^{29} + \cdots - 16y + 1)$
c_8	$y^4(y^{15} - y^{14} + \cdots + 16y - 1)^2(y^{20} - y^{19} + \cdots + 3328y + 1024)$