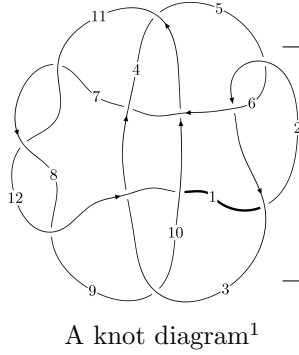
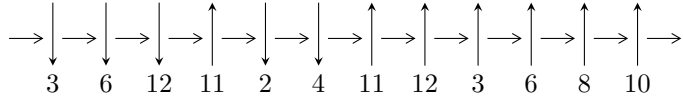


12n₀₄₃₉ (K12n₀₄₃₉)



Linearized knot diagram



Solving Sequence

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

Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -51u^8 + 4u^7 + 487u^6 + 424u^5 - 1094u^4 - 281u^3 + 1891u^2 + 551b + 812u + 165, \\ 267u^8 + 919u^7 + 173u^6 - 2317u^5 + 185u^4 + 5555u^3 + 2060u^2 + 1102a - 2436u - 799, \\ u^9 + 5u^8 + 7u^7 - 3u^6 - 7u^5 + 17u^4 + 32u^3 + 18u^2 + 7u + 2 \rangle$$

$$I_2^u = \langle u^7 - 2u^6 - u^5 + 5u^4 - 2u^3 - 5u^2 + b + 2u + 2, -u^7 + 3u^6 - u^5 - 4u^4 + 3u^3 + 3u^2 + 3a - u - 4, \\ u^8 - 3u^7 + u^6 + 7u^5 - 9u^4 - 3u^3 + 10u^2 - 2u - 3 \rangle$$

$$I_3^u = \langle b + 2a - 1, 4a^2 - 6a + 7, u - 2 \rangle$$

$$I_1^v = \langle a, b + v, v^2 - v + 1 \rangle$$

* 4 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 21 representations.

¹The 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>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

$$\mathbf{I. } I_1^u = \langle -51u^8 + 4u^7 + \cdots + 551b + 165, 267u^8 + 919u^7 + \cdots + 1102a - 799, u^9 + 5u^8 + \cdots + 7u + 2 \rangle$$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.242287u^8 - 0.833938u^7 + \cdots + 2.21053u + 0.725045 \\ 0.0925590u^8 - 0.00725953u^7 + \cdots - 1.47368u - 0.299456 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -0.242287u^8 - 0.833938u^7 + \cdots + 2.21053u + 0.725045 \\ 0.441016u^8 + 1.25953u^7 + \cdots + 0.684211u + 0.455535 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0735027u^8 + 0.376588u^7 + \cdots - 0.0526316u + 0.409256 \\ -0.0326679u^8 - 0.0562613u^7 + \cdots + 0.578947u - 0.0707804 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.0408348u^8 - 0.320327u^7 + \cdots - 0.526316u - 0.338475 \\ -0.0907441u^8 + 0.399274u^7 + \cdots + 2.05263u + 0.470054 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 0.227768u^8 + 0.697822u^7 + \cdots + 3.15789u + 0.910163 \\ -0.377495u^8 - 1.53902u^7 + \cdots - 2.42105u - 0.484574 \end{pmatrix}$$

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

$$a_6 = \begin{pmatrix} 0.0825771u^8 + 0.336661u^7 + \cdots - 1.15789u + 0.262250 \\ -0.00907441u^8 + 0.0399274u^7 + \cdots + 1.10526u + 0.147005 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.0735027u^8 - 0.376588u^7 + \cdots + 1.05263u + 0.590744 \\ -0.0762250u^8 - 0.464610u^7 + \cdots - 0.315789u - 0.165154 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes

$$= \frac{1779}{551}u^8 + \frac{8482}{551}u^7 + \frac{9752}{551}u^6 - \frac{10058}{551}u^5 - \frac{11137}{551}u^4 + \frac{36963}{551}u^3 + \frac{46798}{551}u^2 + \frac{379}{19}u + \frac{5232}{551}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^9 + 6u^8 + \cdots + 1105u + 16$
c_2, c_5	$u^9 + 6u^8 + 15u^7 + 19u^6 + 39u^5 + 96u^4 + 137u^3 + 93u^2 + 19u - 4$
c_3, c_6	$u^9 - u^8 + 6u^7 + 6u^6 + 39u^5 + 60u^4 + 40u^3 + 13u^2 + u - 1$
c_4, c_9	$u^9 + u^8 + 7u^7 + 9u^6 + 14u^5 + 11u^4 + 8u^3 + u^2 - u - 1$
c_7, c_8, c_{11}	$u^9 - 5u^8 + 7u^7 + 3u^6 - 7u^5 - 17u^4 + 32u^3 - 18u^2 + 7u - 2$
c_{10}, c_{12}	$u^9 + 6u^8 + 14u^7 - 5u^6 + 66u^5 - 202u^4 + 132u^3 + u^2 - 10u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^9 + 114y^8 + \cdots + 1135425y - 256$
c_2, c_5	$y^9 - 6y^8 + \cdots + 1105y - 16$
c_3, c_6	$y^9 + 11y^8 + \cdots + 27y - 1$
c_4, c_9	$y^9 + 13y^8 + 59y^7 + 109y^6 + 106y^5 + 73y^4 + 32y^3 + 5y^2 + 3y - 1$
c_7, c_8, c_{11}	$y^9 - 11y^8 + \cdots - 23y - 4$
c_{10}, c_{12}	$y^9 - 8y^8 + \cdots + 102y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.18169 + 0.81660I$ $a = -1.13356 - 0.92427I$ $b = 0.538744 + 0.723261I$	$4.72372 - 1.44557I$	$2.79413 + 0.05589I$
$u = 1.18169 - 0.81660I$ $a = -1.13356 + 0.92427I$ $b = 0.538744 - 0.723261I$	$4.72372 + 1.44557I$	$2.79413 - 0.05589I$
$u = -0.557684$ $a = -0.337455$ $b = -0.425472$	0.803810	12.4850
$u = -1.42962 + 0.20941I$ $a = 0.119321 + 0.349200I$ $b = -0.023607 - 1.115360I$	$3.18435 - 3.04209I$	$1.27965 + 3.40109I$
$u = -1.42962 - 0.20941I$ $a = 0.119321 - 0.349200I$ $b = -0.023607 + 1.115360I$	$3.18435 + 3.04209I$	$1.27965 - 3.40109I$
$u = -0.058623 + 0.424215I$ $a = 0.74163 + 1.41569I$ $b = 0.476502 - 0.460767I$	$-1.48784 + 0.34537I$	$-5.00907 - 1.24859I$
$u = -0.058623 - 0.424215I$ $a = 0.74163 - 1.41569I$ $b = 0.476502 + 0.460767I$	$-1.48784 - 0.34537I$	$-5.00907 + 1.24859I$
$u = -1.91461 + 0.93499I$ $a = -0.308657 - 1.376960I$ $b = -0.27890 + 2.28182I$	$13.7395 - 8.2460I$	$2.69287 + 2.56767I$
$u = -1.91461 - 0.93499I$ $a = -0.308657 + 1.376960I$ $b = -0.27890 - 2.28182I$	$13.7395 + 8.2460I$	$2.69287 - 2.56767I$

$$\text{II. } I_2^u = \langle u^7 - 2u^6 - u^5 + 5u^4 - 2u^3 - 5u^2 + b + 2u + 2, -u^7 + 3u^6 + \dots + 3a - 4, u^8 - 3u^7 + \dots - 2u - 3 \rangle$$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} \frac{1}{3}u^7 - u^6 + \dots + \frac{1}{3}u + \frac{4}{3} \\ -u^7 + 2u^6 + u^5 - 5u^4 + 2u^3 + 5u^2 - 2u - 2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} \frac{1}{3}u^7 - u^6 + \dots + \frac{1}{3}u + \frac{4}{3} \\ -u^7 + 3u^6 - u^5 - 5u^4 + 5u^3 + 3u^2 - 3u - 2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} \frac{2}{3}u^7 - u^6 + \dots + \frac{2}{3}u + \frac{8}{3} \\ -u^7 + u^6 + 2u^5 - 4u^4 - u^3 + 5u^2 + u - 1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} \frac{1}{3}u^7 - \frac{2}{3}u^5 + \dots - \frac{5}{3}u - \frac{5}{3} \\ 2u^7 - 5u^6 - 2u^5 + 14u^4 - 8u^3 - 15u^2 + 11u + 7 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} -\frac{2}{3}u^7 + u^6 + \dots - \frac{11}{3}u - \frac{5}{3} \\ -u^5 + 2u^4 - 3u^2 + 2u + 1 \end{pmatrix}$$

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

$$a_6 = \begin{pmatrix} -\frac{1}{3}u^7 + u^6 + \dots - \frac{7}{3}u + \frac{2}{3} \\ u^7 - 2u^6 - u^5 + 6u^4 - 3u^3 - 5u^2 + 3u + 2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} \frac{2}{3}u^7 - u^6 + \dots + \frac{5}{3}u + \frac{5}{3} \\ -u^3 + u^2 - 1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $3u^7 - 7u^6 + 3u^5 + 10u^4 - 12u^3 - 2u^2 + 3u + 3$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^8 - 10u^7 + 39u^6 - 81u^5 + 117u^4 - 122u^3 + 63u^2 - 11u + 1$
c_2	$u^8 + 4u^7 + 3u^6 - 7u^5 - 13u^4 - 4u^3 + 7u^2 + 5u + 1$
c_3, c_6	$u^8 + 2u^7 - 2u^5 - 3u^4 - 3u^3 + 3u^2 + 4u + 1$
c_4, c_9	$u^8 + 7u^6 + 10u^4 - 5u^3 - u^2 - 2u - 1$
c_5	$u^8 - 4u^7 + 3u^6 + 7u^5 - 13u^4 + 4u^3 + 7u^2 - 5u + 1$
c_7, c_8	$u^8 - 3u^7 + u^6 + 7u^5 - 9u^4 - 3u^3 + 10u^2 - 2u - 3$
c_{10}, c_{12}	$u^8 + u^7 + 3u^6 + 2u^5 - 6u^4 + 6u^3 - 8u^2 + 5u - 1$
c_{11}	$u^8 + 3u^7 + u^6 - 7u^5 - 9u^4 + 3u^3 + 10u^2 + 2u - 3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^8 - 22y^7 + 135y^6 + 251y^5 - 1379y^4 - 1846y^3 + 1519y^2 + 5y + 1$
c_2, c_5	$y^8 - 10y^7 + 39y^6 - 81y^5 + 117y^4 - 122y^3 + 63y^2 - 11y + 1$
c_3, c_6	$y^8 - 4y^7 + 2y^6 + 14y^5 - 17y^4 - 11y^3 + 27y^2 - 10y + 1$
c_4, c_9	$y^8 + 14y^7 + 69y^6 + 138y^5 + 84y^4 - 59y^3 - 39y^2 - 2y + 1$
c_7, c_8, c_{11}	$y^8 - 7y^7 + 25y^6 - 65y^5 + 125y^4 - 167y^3 + 142y^2 - 64y + 9$
c_{10}, c_{12}	$y^8 + 5y^7 - 7y^6 - 68y^5 - 48y^4 + 34y^3 + 16y^2 - 9y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.143550 + 0.105994I$ $a = 0.027839 + 1.059490I$ $b = -0.039265 - 0.565787I$	$4.97207 - 3.05412I$	$5.35335 + 5.43549I$
$u = -1.143550 - 0.105994I$ $a = 0.027839 - 1.059490I$ $b = -0.039265 + 0.565787I$	$4.97207 + 3.05412I$	$5.35335 - 5.43549I$
$u = 1.084730 + 0.492548I$ $a = 0.753232 - 0.582528I$ $b = 0.13996 + 2.26543I$	$-12.04710 + 1.95234I$	$-1.37368 - 3.45942I$
$u = 1.084730 - 0.492548I$ $a = 0.753232 + 0.582528I$ $b = 0.13996 - 2.26543I$	$-12.04710 - 1.95234I$	$-1.37368 + 3.45942I$
$u = 1.03265 + 1.04538I$ $a = -0.527623 + 0.897663I$ $b = -0.31449 - 1.42869I$	$-5.86984 + 3.80835I$	$2.98023 - 3.30420I$
$u = 1.03265 - 1.04538I$ $a = -0.527623 - 0.897663I$ $b = -0.31449 + 1.42869I$	$-5.86984 - 3.80835I$	$2.98023 + 3.30420I$
$u = -0.483343$ $a = 1.10069$ $b = -0.358657$	-0.371792	2.79670
$u = 1.53567$ $a = -0.274253$ $b = 0.786231$	6.52231	9.28350

$$\text{III. } I_3^u = \langle b + 2a - 1, 4a^2 - 6a + 7, u - 2 \rangle$$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ 2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} a \\ -2a + 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ -4 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} a \\ -6a + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2a - \frac{5}{2} \\ -10a + 16 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -8a - \frac{3}{2} \\ 54a - 8 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2 \\ 2 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -3a + 4 \\ 2a - 3 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -3 \\ 4 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.5 \\ -2a \end{pmatrix}$$

$$a_2 = \begin{pmatrix} a - \frac{3}{2} \\ 1 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = 3

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u + 9)^2$
c_2, c_5	$(u - 3)^2$
c_3, c_6	$u^2 - 3u + 7$
c_4, c_9	$u^2 - u + 5$
c_7, c_8, c_{11}	$(u + 2)^2$
c_{10}, c_{12}	$u^2 - 4u + 23$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$(y - 81)^2$
c_2, c_5	$(y - 9)^2$
c_3, c_6	$y^2 + 5y + 49$
c_4, c_9	$y^2 + 9y + 25$
c_7, c_8, c_{11}	$(y - 4)^2$
c_{10}, c_{12}	$y^2 + 30y + 529$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 2.00000$		
$a = 0.750000 + 1.089730I$	-9.86960	3.00000
$b = -0.500000 - 2.17945I$		
$u = 2.00000$		
$a = 0.750000 - 1.089730I$	-9.86960	3.00000
$b = -0.500000 + 2.17945I$		

$$\text{IV. } I_1^v = \langle a, b + v, v^2 - v + 1 \rangle$$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} v \\ 0 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0 \\ -v \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1 \\ -v \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} v + 1 \\ -v + 1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1 \\ v - 1 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 1 \\ -v \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ -v + 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = 3

(iv) **u**-Polynomials at the component

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

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^v	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$v = 0.500000 + 0.866025I$	0	3.00000
$a = 0$		
$b = -0.500000 - 0.866025I$		
$v = 0.500000 - 0.866025I$	0	3.00000
$a = 0$		
$b = -0.500000 + 0.866025I$		

V. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u-1)^2(u+9)^2$ $\cdot (u^8 - 10u^7 + 39u^6 - 81u^5 + 117u^4 - 122u^3 + 63u^2 - 11u + 1)$ $\cdot (u^9 + 6u^8 + \dots + 1105u + 16)$
c_2	$((u-3)^2)(u-1)^2(u^8 + 4u^7 + \dots + 5u + 1)$ $\cdot (u^9 + 6u^8 + 15u^7 + 19u^6 + 39u^5 + 96u^4 + 137u^3 + 93u^2 + 19u - 4)$
c_3, c_6	$(u^2 - 3u + 7)(u^2 + u + 1)(u^8 + 2u^7 + \dots + 4u + 1)$ $\cdot (u^9 - u^8 + 6u^7 + 6u^6 + 39u^5 + 60u^4 + 40u^3 + 13u^2 + u - 1)$
c_4, c_9	$(u^2 - u + 5)(u^2 + u + 1)(u^8 + 7u^6 + 10u^4 - 5u^3 - u^2 - 2u - 1)$ $\cdot (u^9 + u^8 + 7u^7 + 9u^6 + 14u^5 + 11u^4 + 8u^3 + u^2 - u - 1)$
c_5	$((u-3)^2)(u+1)^2(u^8 - 4u^7 + \dots - 5u + 1)$ $\cdot (u^9 + 6u^8 + 15u^7 + 19u^6 + 39u^5 + 96u^4 + 137u^3 + 93u^2 + 19u - 4)$
c_7, c_8	$u^2(u+2)^2(u^8 - 3u^7 + u^6 + 7u^5 - 9u^4 - 3u^3 + 10u^2 - 2u - 3)$ $\cdot (u^9 - 5u^8 + 7u^7 + 3u^6 - 7u^5 - 17u^4 + 32u^3 - 18u^2 + 7u - 2)$
c_{10}, c_{12}	$((u-1)^2)(u^2 - 4u + 23)(u^8 + u^7 + \dots + 5u - 1)$ $\cdot (u^9 + 6u^8 + 14u^7 - 5u^6 + 66u^5 - 202u^4 + 132u^3 + u^2 - 10u - 1)$
c_{11}	$u^2(u+2)^2(u^8 + 3u^7 + u^6 - 7u^5 - 9u^4 + 3u^3 + 10u^2 + 2u - 3)$ $\cdot (u^9 - 5u^8 + 7u^7 + 3u^6 - 7u^5 - 17u^4 + 32u^3 - 18u^2 + 7u - 2)$

VI. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y - 81)^2(y - 1)^2$ $\cdot (y^8 - 22y^7 + 135y^6 + 251y^5 - 1379y^4 - 1846y^3 + 1519y^2 + 5y + 1)$ $\cdot (y^9 + 114y^8 + \dots + 1135425y - 256)$
c_2, c_5	$(y - 9)^2(y - 1)^2$ $\cdot (y^8 - 10y^7 + 39y^6 - 81y^5 + 117y^4 - 122y^3 + 63y^2 - 11y + 1)$ $\cdot (y^9 - 6y^8 + \dots + 1105y - 16)$
c_3, c_6	$(y^2 + y + 1)(y^2 + 5y + 49)$ $\cdot (y^8 - 4y^7 + 2y^6 + 14y^5 - 17y^4 - 11y^3 + 27y^2 - 10y + 1)$ $\cdot (y^9 + 11y^8 + \dots + 27y - 1)$
c_4, c_9	$(y^2 + y + 1)(y^2 + 9y + 25)$ $\cdot (y^8 + 14y^7 + 69y^6 + 138y^5 + 84y^4 - 59y^3 - 39y^2 - 2y + 1)$ $\cdot (y^9 + 13y^8 + 59y^7 + 109y^6 + 106y^5 + 73y^4 + 32y^3 + 5y^2 + 3y - 1)$
c_7, c_8, c_{11}	$y^2(y - 4)^2$ $\cdot (y^8 - 7y^7 + 25y^6 - 65y^5 + 125y^4 - 167y^3 + 142y^2 - 64y + 9)$ $\cdot (y^9 - 11y^8 + \dots - 23y - 4)$
c_{10}, c_{12}	$(y - 1)^2(y^2 + 30y + 529)$ $\cdot (y^8 + 5y^7 - 7y^6 - 68y^5 - 48y^4 + 34y^3 + 16y^2 - 9y + 1)$ $\cdot (y^9 - 8y^8 + \dots + 102y - 1)$