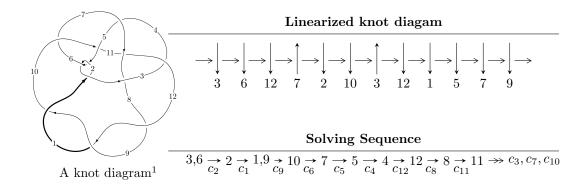
$12n_{0316} \ (K12n_{0316})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.49187 \times 10^{37} u^{44} - 1.01328 \times 10^{37} u^{43} + \dots + 2.01007 \times 10^{37} b - 7.03971 \times 10^{37}, \\ &- 1.39776 \times 10^{38} u^{44} + 1.68461 \times 10^{38} u^{43} + \dots + 1.40705 \times 10^{38} a + 1.95501 \times 10^{39}, \\ &u^{45} - 2u^{44} + \dots - 63u + 7 \rangle \\ I_2^u &= \langle -3u^{12} - 7u^{11} + 2u^{10} + 24u^9 + 6u^8 - 43u^7 - 27u^6 + 49u^5 + 37u^4 - 29u^3 - 27u^2 + b + 10u + 7, \\ &5u^{12} + 13u^{11} - 2u^{10} - 44u^9 - 19u^8 + 78u^7 + 60u^6 - 84u^5 - 82u^4 + 47u^3 + 53u^2 + a - 13u - 13, \\ &u^{13} + 3u^{12} + u^{11} - 8u^{10} - 7u^9 + 12u^8 + 17u^7 - 9u^6 - 20u^5 + u^4 + 12u^3 + 2u^2 - 3u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 58 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).

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

I.
$$I_1^u = \langle 1.49 \times 10^{37} u^{44} - 1.01 \times 10^{37} u^{43} + \dots + 2.01 \times 10^{37} b - 7.04 \times 10^{37}, \ -1.40 \times 10^{38} u^{44} + 1.68 \times 10^{38} u^{43} + \dots + 1.41 \times 10^{38} a + 1.96 \times 10^{39}, \ u^{45} - 2u^{44} + \dots - 63u + 7 \rangle$$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 0.993395u^{44} - 1.19726u^{43} + \dots + 89.5674u - 13.8944 \\ -0.742197u^{44} + 0.504102u^{43} + \dots - 24.9174u + 3.50222 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.168633u^{44} - 0.289227u^{43} + \dots + 40.1071u - 8.51481 \\ -0.625412u^{44} + 0.0300369u^{43} + \dots + 0.0542180u - 0.00472178 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -2.57523u^{44} + 2.47327u^{43} + \dots + 150.787u + 17.0513 \\ -0.238127u^{44} - 0.117959u^{43} + \dots + 25.4258u - 2.94147 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 0.0434605u^{44} - 0.501873u^{43} + \dots + 32.2099u - 4.00706 \\ -1.00696u^{44} + 1.07716u^{43} + \dots - 66.0581u + 8.54528 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.44259u^{44} + 2.27648u^{43} + \dots + 32.9618u - 4.57062 \\ 0.842298u^{44} - 0.861398u^{43} + \dots + 32.9618u - 4.57062 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -2.81336u^{44} + 2.35531u^{43} + \dots + 25.4258u - 2.94147 \\ -0.238127u^{44} - 0.117959u^{43} + \dots + 25.4258u - 2.94147 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.991831u^{44} + 1.08676u^{43} + \dots - 88.6012u + 14.4109 \\ 0.546953u^{44} - 0.100468u^{43} + \dots - 88.6012u + 14.4109 \\ 0.546953u^{44} - 0.100468u^{43} + \dots - 88.6012u + 14.4109 \\ 0.546953u^{44} - 0.100468u^{43} + \dots - 0.832675u - 0.0412010 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-1.33381u^{44} + 0.732754u^{43} + \cdots 88.2937u 0.929056$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{45} + 18u^{44} + \dots + 3381u + 49$
c_2, c_5	$u^{45} + 2u^{44} + \dots - 63u - 7$
c_3, c_{10}	$u^{45} - u^{44} + \dots - 20u - 1$
c_4	$u^{45} + 7u^{44} + \dots + 15464u + 821$
<i>C</i> ₆	$u^{45} + 4u^{44} + \dots - 22u - 4$
	$u^{45} - 3u^{44} + \dots + 22696u + 3551$
c_8, c_9, c_{12}	$u^{45} + u^{44} + \dots + 64u + 19$
c_{11}	$u^{45} + u^{44} + \dots - 63u + 9$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{45} + 42y^{44} + \dots + 6542725y - 2401$
c_2, c_5	$y^{45} - 18y^{44} + \dots + 3381y - 49$
c_3, c_{10}	$y^{45} + 57y^{44} + \dots + 198y - 1$
c_4	$y^{45} - 63y^{44} + \dots + 21028436y - 674041$
c_6	$y^{45} - 4y^{44} + \dots - 68y - 16$
c_7	$y^{45} - 53y^{44} + \dots + 550810170y - 12609601$
c_8, c_9, c_{12}	$y^{45} - 35y^{44} + \dots - 84y - 361$
c_{11}	$y^{45} + 75y^{44} + \dots + 405y - 81$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.352517 + 0.930511I		
a = -2.09255 - 0.56873I	0.92371 - 3.61571I	-7.30973 + 5.35358I
b = -1.53917 - 0.68803I		
u = -0.352517 - 0.930511I		
a = -2.09255 + 0.56873I	0.92371 + 3.61571I	-7.30973 - 5.35358I
b = -1.53917 + 0.68803I		
u = -0.622969 + 0.745341I		
a = -0.498948 - 0.274339I	3.19833 + 0.47295I	-2.90845 - 1.14935I
b = 0.0307757 + 0.1234220I		
u = -0.622969 - 0.745341I		
a = -0.498948 + 0.274339I	3.19833 - 0.47295I	-2.90845 + 1.14935I
b = 0.0307757 - 0.1234220I		
u = 0.852606 + 0.644697I		
a = -1.60431 + 2.03212I	7.67151 - 0.54614I	-7.14162 + 2.19289I
b = -0.66092 + 1.63965I		
u = 0.852606 - 0.644697I		
a = -1.60431 - 2.03212I	7.67151 + 0.54614I	-7.14162 - 2.19289I
b = -0.66092 - 1.63965I		
u = 0.870374 + 0.636220I		
a = -1.51114 + 2.96200I	7.61467 - 4.45079I	-7.29611 + 4.22653I
b = 0.84979 + 1.64164I		
u = 0.870374 - 0.636220I		
a = -1.51114 - 2.96200I	7.61467 + 4.45079I	-7.29611 - 4.22653I
b = 0.84979 - 1.64164I		
u = -0.706985 + 0.572515I		
a = 1.61320 + 1.43432I	-0.603650 + 1.183020I	-7.09381 - 2.18131I
b = 0.612546 + 1.273340I		
u = -0.706985 - 0.572515I		
a = 1.61320 - 1.43432I	-0.603650 - 1.183020I	-7.09381 + 2.18131I
b = 0.612546 - 1.273340I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.017280 + 0.456940I		
a = -0.20833 - 1.43339I	-2.41679 - 3.11933I	-8.64263 + 5.00261I
b = -1.77851 + 0.14760I		
u = 1.017280 - 0.456940I		
a = -0.20833 + 1.43339I	-2.41679 + 3.11933I	-8.64263 - 5.00261I
b = -1.77851 - 0.14760I		
u = -0.837872 + 0.180212I		
a = -0.719453 + 0.504755I	5.23022 + 2.95335I	-10.41493 - 5.15699I
b = -0.475414 + 1.151620I		
u = -0.837872 - 0.180212I		
a = -0.719453 - 0.504755I	5.23022 - 2.95335I	-10.41493 + 5.15699I
b = -0.475414 - 1.151620I		
u = 0.829207 + 0.087175I		
a = 2.10128 - 0.71672I	-6.31151 - 0.37732I	-13.18619 - 0.42975I
b = -0.375197 + 0.692927I		
u = 0.829207 - 0.087175I		
a = 2.10128 + 0.71672I	-6.31151 + 0.37732I	-13.18619 + 0.42975I
b = -0.375197 - 0.692927I		
u = -0.780783 + 0.287291I		
a = 0.16773 - 2.15348I	5.58706 - 0.92954I	-9.44375 - 1.95517I
b = 1.01268 + 1.14500I		
u = -0.780783 - 0.287291I		
a = 0.16773 + 2.15348I	5.58706 + 0.92954I	-9.44375 + 1.95517I
b = 1.01268 - 1.14500I		
u = 0.741986 + 0.904888I		
a = 1.232980 - 0.115587I	12.46620 + 1.15235I	-3.81779 + 0.34527I
b = 0.350843 - 0.128409I		
u = 0.741986 - 0.904888I		
a = 1.232980 + 0.115587I	12.46620 - 1.15235I	-3.81779 - 0.34527I
b = 0.350843 + 0.128409I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.822383		
a = -2.63142	-10.1445	9.33710
b = 0.371288		
u = 0.702661 + 0.398793I		
a = -0.853897 + 0.310274I	-1.09811 - 1.39547I	-6.56054 + 4.96588I
b = -0.210564 + 0.967639I		
u = 0.702661 - 0.398793I		
a = -0.853897 - 0.310274I	-1.09811 + 1.39547I	-6.56054 - 4.96588I
b = -0.210564 - 0.967639I		
u = -1.021490 + 0.633982I		
a = 0.047816 - 0.193328I	1.97257 + 4.80081I	-5.11482 - 5.89967I
b = -0.358831 - 0.204765I		
u = -1.021490 - 0.633982I		
a = 0.047816 + 0.193328I	1.97257 - 4.80081I	-5.11482 + 5.89967I
b = -0.358831 + 0.204765I		
u = 0.760787 + 0.239478I		
a = 0.429130 - 0.024508I	-1.101730 - 0.180700I	-6.28342 - 1.85189I
b = 0.810532 - 0.368894I		
u = 0.760787 - 0.239478I		
a = 0.429130 + 0.024508I	-1.101730 + 0.180700I	-6.28342 + 1.85189I
b = 0.810532 + 0.368894I		
u = -1.067050 + 0.679768I		
a = 0.77890 + 2.44088I	-1.81546 + 3.64143I	-8.00000 - 2.52158I
b = -0.89344 + 1.68496I		
u = -1.067050 - 0.679768I		
a = 0.77890 - 2.44088I	-1.81546 - 3.64143I	-8.00000 + 2.52158I
b = -0.89344 - 1.68496I		
u = 1.018190 + 0.768985I		
a = -0.662287 - 0.442499I	11.57780 - 7.32875I	-8.00000 + 4.62290I
b = -0.108103 - 0.271060I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.018190 - 0.768985I		
a = -0.662287 + 0.442499I	11.57780 + 7.32875I	-8.00000 - 4.62290I
b = -0.108103 + 0.271060I		
u = 0.583636 + 1.148450I		
a = 2.23765 - 1.83947I	8.75418 + 6.80607I	-8.00000 - 4.07465I
b = 1.60697 - 1.61313I		
u = 0.583636 - 1.148450I		
a = 2.23765 + 1.83947I	8.75418 - 6.80607I	-8.00000 + 4.07465I
b = 1.60697 + 1.61313I		
u = -1.161870 + 0.639019I		
a = 0.16411 - 2.14514I	-1.49977 + 9.31425I	0
b = 1.88266 - 1.13204I		
u = -1.161870 - 0.639019I		
a = 0.16411 + 2.14514I	-1.49977 - 9.31425I	0
b = 1.88266 + 1.13204I		
u = 1.041350 + 0.853737I		
a = -0.50445 + 1.98666I	-4.65783 - 3.47814I	0
b = 0.433982 + 1.234590I		
u = 1.041350 - 0.853737I		_
a = -0.50445 - 1.98666I	-4.65783 + 3.47814I	0
b = 0.433982 - 1.234590I		
u = 1.38604	F F0004	4= 0000
a = 0.478642	-5.50304	-17.6960
b = 2.27111		
u = 1.17910 + 0.78373I	0.0149 19.00157	
a = 0.21212 - 2.72362I	6.8143 - 13.6617I	0
b = -1.47078 - 1.85341I		
u = 1.17910 - 0.78373I	C 0149 + 19 CC151	_
a = 0.21212 + 2.72362I	6.8143 + 13.6617I	0
b = -1.47078 + 1.85341I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.28910 + 0.63728I		
a = 0.22407 + 2.43968I	-1.85160 + 3.71712I	0
b = -1.41146 + 2.05143I		
u = -1.28910 - 0.63728I		
a = 0.22407 - 2.43968I	-1.85160 - 3.71712I	0
b = -1.41146 - 2.05143I		
u = -1.10756 + 0.93089I		
a = 0.042729 + 1.301160I	0.57168 + 3.78059I	0
b = -0.474464 + 0.759384I		
u = -1.10756 - 0.93089I		
a = 0.042729 - 1.301160I	0.57168 - 3.78059I	0
b = -0.474464 - 0.759384I		
u = 0.138369		
a = -2.03994	-0.867384	-10.9880
b = 0.689748		

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} -5u^{12} - 13u^{11} + \dots + 13u + 13 \\ 3u^{12} + 7u^{11} + \dots - 10u - 7 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -6u^{12} - 15u^{11} + \dots + 16u + 14 \\ 5u^{12} + 12u^{11} + \dots - 13u - 9 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -4u^{12} - 9u^{11} + \dots + 8u + 3 \\ -u^{12} - 3u^{11} + \dots - u + 3 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 10u^{12} + 23u^{11} + \dots - 25u - 13 \\ u^{12} + 3u^{11} + \dots + 2u - 4 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 3u^{12} + 6u^{11} + \dots - 8u - 8 \\ -6u^{12} - 15u^{11} + \dots + 13u + 11 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -5u^{12} - 12u^{11} + \dots + 7u + 6 \\ -u^{12} - 3u^{11} + \dots - u + 3 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -9u^{12} - 23u^{11} + \dots + 23u + 20 \\ 2u^{12} + 5u^{11} + \dots - 6u - 4 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes
$$= 3u^{12} + u^{11} - 19u^{10} - 32u^9 + 28u^8 + 70u^7 - 22u^6 - 115u^5 - 12u^4 + 84u^3 + 28u^2 - 36u - 23$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{13} - 7u^{12} + \dots + 13u - 1$
c_2	$u^{13} + 3u^{12} + \dots - 3u - 1$
c_3	$u^{13} + 8u^{11} + 24u^9 + u^8 + 33u^7 + 4u^6 + 20u^5 + 5u^4 + 5u^3 + u^2 + 2u - 1$
<i>C</i> ₄	$u^{13} + 4u^{11} + \dots + 6u - 1$
<i>C</i> ₅	$u^{13} - 3u^{12} + \dots - 3u + 1$
<i>c</i> ₆	$u^{13} + 3u^{12} - 5u^{10} + u^8 - 5u^7 + 3u^6 + 8u^5 - u^4 - 6u^3 - u^2 + 2u + 1$
c_7	$u^{13} + 3u^{11} + \dots + 6u - 1$
c_8, c_9	$u^{13} - 8u^{11} + \dots + 2u + 1$
c_{10}	$u^{13} + 8u^{11} + 24u^9 - u^8 + 33u^7 - 4u^6 + 20u^5 - 5u^4 + 5u^3 - u^2 + 2u + 1$
c_{11}	$u^{13} - 2u^{12} + \dots - 13u - 1$
c_{12}	$u^{13} - 8u^{11} + \dots + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{13} + 21y^{12} + \dots + 21y - 1$
c_{2}, c_{5}	$y^{13} - 7y^{12} + \dots + 13y - 1$
c_3,c_{10}	$y^{13} + 16y^{12} + \dots + 6y - 1$
c_4	$y^{13} + 8y^{12} + \dots + 4y - 1$
	$y^{13} - 9y^{12} + \dots + 6y - 1$
	$y^{13} + 6y^{12} + \dots + 22y - 1$
c_8, c_9, c_{12}	$y^{13} - 16y^{12} + \dots + 8y - 1$
c_{11}	$y^{13} - 14y^{12} + \dots + 29y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.881035 + 0.428633I		
a = -1.93807 - 2.18231I	-5.55501 + 1.76839I	-9.42733 - 3.99027I
b = 0.402497 - 1.355330I		
u = -0.881035 - 0.428633I		
a = -1.93807 + 2.18231I	-5.55501 - 1.76839I	-9.42733 + 3.99027I
b = 0.402497 + 1.355330I		
u = 0.910742		
a = 2.11436	-10.3385	-32.2600
b = -0.698976		
u = 0.988275 + 0.624685I		
a = -0.18264 + 1.54866I	-4.28208 - 2.74184I	-11.58472 + 0.68743I
b = 0.822715 + 0.363964I		
u = 0.988275 - 0.624685I		
a = -0.18264 - 1.54866I	-4.28208 + 2.74184I	-11.58472 - 0.68743I
b = 0.822715 - 0.363964I		
u = 0.786272 + 0.257302I		
a = -1.165010 + 0.236660I	-1.90498 - 0.74935I	-15.2105 + 0.6429I
b = -0.544518 + 1.013380I		
u = 0.786272 - 0.257302I		
a = -1.165010 - 0.236660I	-1.90498 + 0.74935I	-15.2105 - 0.6429I
b = -0.544518 - 1.013380I		
u = -1.010700 + 0.772169I		
a = 0.445697 + 0.983245I	1.40993 + 3.16875I	-4.51782 - 0.85705I
b = 0.008357 + 0.919135I		
u = -1.010700 - 0.772169I		
a = 0.445697 - 0.983245I	1.40993 - 3.16875I	-4.51782 + 0.85705I
b = 0.008357 - 0.919135I		
u = -0.501636 + 0.101564I		
a = 0.96670 + 1.91810I	6.06288 + 2.09354I	-6.13746 - 2.14572I
b = 0.581751 - 1.286380I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.501636 - 0.101564I		
a = 0.96670 - 1.91810I	6.06288 - 2.09354I	-6.13746 + 2.14572I
b = 0.581751 + 1.286380I		
u = -1.33655 + 1.04817I		
a = 0.31613 + 3.50034I	-2.07604 + 4.55409I	-12.9921 - 8.8615I
b = -0.92132 + 3.01182I		
u = -1.33655 - 1.04817I		
a = 0.31613 - 3.50034I	-2.07604 - 4.55409I	-12.9921 + 8.8615I
b = -0.92132 - 3.01182I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing	
c_1	$ (u^{13} - 7u^{12} + \dots + 13u - 1)(u^{45} + 18u^{44} + \dots + 3381u + 49) $	
c_2	$ (u^{13} + 3u^{12} + \dots - 3u - 1)(u^{45} + 2u^{44} + \dots - 63u - 7) $	
c_3	$(u^{13} + 8u^{11} + 24u^9 + u^8 + 33u^7 + 4u^6 + 20u^5 + 5u^4 + 5u^3 + u^2 + 2u^4 + 3u^4 + 3u^4 + 3u^4 + 3u^4 + 3u^5 + 3u^6 + 20u^5 + 3u^4 + 3u^3 + 2u^4 + 3u^4 +$	(2u - 1)
c_4	$ (u^{13} + 4u^{11} + \dots + 6u - 1)(u^{45} + 7u^{44} + \dots + 15464u + 821) $	
<i>C</i> 5	$(u^{13} - 3u^{12} + \dots - 3u + 1)(u^{45} + 2u^{44} + \dots - 63u - 7)$	
c ₆	$(u^{13} + 3u^{12} - 5u^{10} + u^8 - 5u^7 + 3u^6 + 8u^5 - u^4 - 6u^3 - u^2 + 2u + (u^{45} + 4u^{44} + \dots - 22u - 4)$	- 1)
c_7	$ (u^{13} + 3u^{11} + \dots + 6u - 1)(u^{45} - 3u^{44} + \dots + 22696u + 3551) $	
c_8, c_9	$(u^{13} - 8u^{11} + \dots + 2u + 1)(u^{45} + u^{44} + \dots + 64u + 19)$	
c_{10}	$(u^{13} + 8u^{11} + 24u^9 - u^8 + 33u^7 - 4u^6 + 20u^5 - 5u^4 + 5u^3 - u^2 + 2u^4 + 3u^4 + $	(2u + 1)
c_{11}	$(u^{13} - 2u^{12} + \dots - 13u - 1)(u^{45} + u^{44} + \dots - 63u + 9)$	
c_{12}	$(u^{13} - 8u^{11} + \dots + 2u - 1)(u^{45} + u^{44} + \dots + 64u + 19)$	

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1	$ (y^{13} + 21y^{12} + \dots + 21y - 1)(y^{45} + 42y^{44} + \dots + 6542725y - 2401) $	
c_2, c_5	$(y^{13} - 7y^{12} + \dots + 13y - 1)(y^{45} - 18y^{44} + \dots + 3381y - 49)$	
c_3, c_{10}	$(y^{13} + 16y^{12} + \dots + 6y - 1)(y^{45} + 57y^{44} + \dots + 198y - 1)$	
c_4	$(y^{13} + 8y^{12} + \dots + 4y - 1)(y^{45} - 63y^{44} + \dots + 2.10284 \times 10^7 y - 67404)$	1)
c_6	$(y^{13} - 9y^{12} + \dots + 6y - 1)(y^{45} - 4y^{44} + \dots - 68y - 16)$	
c_7	$(y^{13} + 6y^{12} + \dots + 22y - 1)$ $\cdot (y^{45} - 53y^{44} + \dots + 550810170y - 12609601)$	
c_8, c_9, c_{12}	$(y^{13} - 16y^{12} + \dots + 8y - 1)(y^{45} - 35y^{44} + \dots - 84y - 361)$	
c_{11}	$(y^{13} - 14y^{12} + \dots + 29y - 1)(y^{45} + 75y^{44} + \dots + 405y - 81)$	