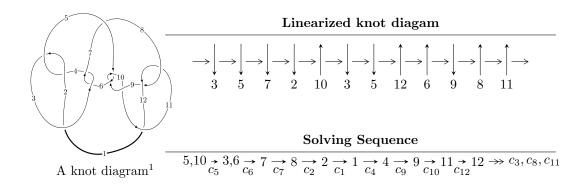
$12n_{0071} (K12n_{0071})$

 $I_1^v = \langle a, b+v-2, v^2-3v+1 \rangle$



Ideals for irreducible components² of X_{par}

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 51 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.

 $I. \\ I_1^u = \langle -1.71 \times 10^{34} u^{39} + 1.07 \times 10^{33} u^{38} + \dots + 5.48 \times 10^{34} b + 1.26 \times 10^{35}, \ -1.55 \times 10^{35} u^{39} + 2.40 \times 10^{35} u^{38} + \dots + 1.10 \times 10^{35} a - 4.54 \times 10^{35}, \ u^{40} - 2u^{39} + \dots + 4u - 4 \rangle$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} 1.41222u^{39} - 2.18994u^{38} + \dots - 11.0073u + 4.14151 \\ 0.311540u^{39} - 0.0194914u^{38} + \dots - 2.46184u - 2.30307 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1.29467u^{39} - 2.32830u^{38} + \dots - 7.27281u + 5.25464 \\ 0.739952u^{39} - 0.868974u^{38} + \dots - 6.01405u - 0.199281 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.554717u^{39} - 1.45933u^{38} + \dots - 1.25876u + 5.45392 \\ 0.739952u^{39} - 0.868974u^{38} + \dots - 6.01405u - 0.199281 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 1.72376u^{39} - 2.20943u^{38} + \dots - 13.4692u + 1.83844 \\ 0.311540u^{39} - 0.0194914u^{38} + \dots - 2.46184u - 2.30307 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 1.29467u^{39} - 2.32830u^{38} + \dots - 7.27281u + 5.25464 \\ -0.230688u^{39} + 0.321263u^{38} + \dots + 1.87952u - 0.844865 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.544195u^{39} - 0.801448u^{38} + \dots - 5.22381u + 0.269369 \\ -0.448480u^{39} + 0.683873u^{38} + \dots + 4.04346u - 1.80083 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{3} \\ u^{5} + u^{3} + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u^{3} \\ -0.392051u^{39} - 2.44708u^{38} + \dots - 6.97510u + 6.29059 \\ -0.392051u^{39} + 0.485888u^{38} + \dots + 3.56359u - 0.624191 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.979451u^{39} 1.42354u^{38} + \dots + 1.47042u 2.27161$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{40} + 57u^{39} + \dots + 351u + 1$
c_2, c_4	$u^{40} - 11u^{39} + \dots + 9u + 1$
c_{3}, c_{6}	$u^{40} + 2u^{39} + \dots + 512u - 512$
c_5,c_9	$u^{40} - 2u^{39} + \dots + 4u - 4$
	$u^{40} - 3u^{39} + \dots + u - 1$
c_{8}, c_{11}	$u^{40} + 4u^{39} + \dots - 6u + 1$
c_{10}	$u^{40} + 18u^{39} + \dots - 104u + 16$
c_{12}	$u^{40} - 20u^{39} + \dots - 94u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{40} - 137y^{39} + \dots - 102695y + 1$
c_2, c_4	$y^{40} - 57y^{39} + \dots - 351y + 1$
c_3, c_6	$y^{40} - 60y^{39} + \dots - 3407872y + 262144$
c_5,c_9	$y^{40} + 18y^{39} + \dots - 104y + 16$
	$y^{40} - 85y^{39} + \dots - 31y + 1$
c_8, c_{11}	$y^{40} - 20y^{39} + \dots - 94y + 1$
c_{10}	$y^{40} + 6y^{39} + \dots - 26912y + 256$
c_{12}	$y^{40} + 4y^{39} + \dots - 7630y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.767555 + 0.682797I		
a = 0.527466 - 0.374649I	3.81537 + 1.27262I	6.29824 - 0.66128I
b = 0.351491 + 0.041737I		
u = -0.767555 - 0.682797I		
a = 0.527466 + 0.374649I	3.81537 - 1.27262I	6.29824 + 0.66128I
b = 0.351491 - 0.041737I		
u = 0.873000 + 0.401971I		
a = 0.540073 + 0.763124I	0.09726 - 2.75203I	-2.88480 + 4.23304I
b = -0.870382 - 0.585645I		
u = 0.873000 - 0.401971I	0.00=0.0 . 0.=5000.5	2 22 422 4 2222 4 7
a = 0.540073 - 0.763124I	0.09726 + 2.75203I	-2.88480 - 4.23304I
b = -0.870382 + 0.585645I $u = 0.552365 + 0.888486I$		
	0.00570 + 0.100177	0.20010 - 0.600017
a = 0.518410 + 0.192533I	0.08572 + 2.19817I	0.38918 - 2.62021I
b = 0.342558 + 0.168348I $u = 0.552365 - 0.888486I$		
a = 0.518410 - 0.192533I	0.08572 - 2.19817I	0.38918 + 2.62021I
b = 0.342558 - 0.168348I	0.00912 2.130111	0.90910 2.020211
u = -0.027732 + 0.938035I		
a = 0.600853 - 0.094307I	$\begin{bmatrix} -1.55152 + 1.36538I \end{bmatrix}$	$\begin{vmatrix} -4.32744 - 4.03663I \end{vmatrix}$
b = -0.017454 + 0.471847I	1100102 11000001	1102711 11000001
u = -0.027732 - 0.938035I		
a = 0.600853 + 0.094307I	-1.55152 - 1.36538I	-4.32744 + 4.03663I
b = -0.017454 - 0.471847I		
u = 0.431539 + 0.988175I		
a = 0.546146 + 0.283746I	-0.42853 + 2.82368I	-2.74140 - 3.00000I
b = -0.284057 - 0.713228I		
u = 0.431539 - 0.988175I		
a = 0.546146 - 0.283746I	-0.42853 - 2.82368I	-2.74140 + 3.00000I
b = -0.284057 + 0.713228I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.079360 + 0.315602I		
a = 0.188664 + 0.002235I	-11.27530 + 1.20929I	-5.80586 + 0.92387I
b = 1.79704 - 0.10786I		
u = -1.079360 - 0.315602I		
a = 0.188664 - 0.002235I	-11.27530 - 1.20929I	-5.80586 - 0.92387I
b = 1.79704 + 0.10786I		
u = 0.216652 + 1.135450I		
a = -1.66179 - 0.18633I	-5.01603 - 0.16820I	-8.63543 + 0.05327I
b = -1.318890 - 0.413598I		
u = 0.216652 - 1.135450I		
a = -1.66179 + 0.18633I	-5.01603 + 0.16820I	-8.63543 - 0.05327I
b = -1.318890 + 0.413598I		
u = 0.481478 + 1.060550I		
a = 2.09296 + 1.81237I	-8.56336 + 3.34791I	-4.12753 - 2.29966I
b = 1.77358 - 0.16425I		
u = 0.481478 - 1.060550I		
a = 2.09296 - 1.81237I	-8.56336 - 3.34791I	-4.12753 + 2.29966I
b = 1.77358 + 0.16425I		
u = -0.389413 + 1.130570I		
a = -1.39760 + 0.84641I	-4.30445 - 2.98930I	-8.10205 + 2.51738I
b = -1.016230 - 0.711563I		
u = -0.389413 - 1.130570I		
a = -1.39760 - 0.84641I	-4.30445 + 2.98930I	-8.10205 - 2.51738I
b = -1.016230 + 0.711563I		
u = -0.697362 + 1.004410I		
a = 0.423595 - 0.213085I	2.84493 - 6.83482I	4.23533 + 5.20206I
b = 0.479221 - 0.154409I		
u = -0.697362 - 1.004410I		
a = 0.423595 + 0.213085I	2.84493 + 6.83482I	4.23533 - 5.20206I
b = 0.479221 + 0.154409I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.496749 + 1.146130I		
a = -1.36151 + 0.53213I	-3.51298 - 4.94394I	-5.28672 + 5.25390I
b = -1.45579 + 0.29115I		
u = -0.496749 - 1.146130I		
a = -1.36151 - 0.53213I	-3.51298 + 4.94394I	-5.28672 - 5.25390I
b = -1.45579 - 0.29115I		
u = 1.125440 + 0.571611I		
a = 0.189635 - 0.004384I	-9.38333 - 6.25287I	-3.71429 + 3.55273I
b = 1.78560 + 0.20613I		
u = 1.125440 - 0.571611I		
a = 0.189635 + 0.004384I	-9.38333 + 6.25287I	-3.71429 - 3.55273I
b = 1.78560 - 0.20613I		
u = -0.711358 + 0.187576I		
a = 0.28261 + 1.89131I	-0.733261 + 0.420305I	-2.53134 - 5.06503I
b = -1.119340 - 0.213535I		
u = -0.711358 - 0.187576I		
a = 0.28261 - 1.89131I	-0.733261 - 0.420305I	-2.53134 + 5.06503I
b = -1.119340 + 0.213535I		
u = 0.452397 + 0.566444I		
a = 0.191549 - 0.000487I	-6.90633 + 0.62272I	-3.96477 - 7.65597I
b = 1.59905 + 0.08829I		
u = 0.452397 - 0.566444I		
a = 0.191549 + 0.000487I	-6.90633 - 0.62272I	-3.96477 + 7.65597I
b = 1.59905 - 0.08829I		
u = 0.344447 + 0.623097I		
a = -2.15466 - 2.41727I	0.797208 + 0.661473I	-4.69435 - 5.79725I
b = -0.764103 + 0.413686I		
u = 0.344447 - 0.623097I		
a = -2.15466 + 2.41727I	0.797208 - 0.661473I	-4.69435 + 5.79725I
b = -0.764103 - 0.413686I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.608559 + 1.157670I		
a = -1.08482 - 0.95472I	-2.24385 + 8.24833I	-4.49922 - 6.95806I
b = -0.923559 + 0.844828I		
u = 0.608559 - 1.157670I		
a = -1.08482 + 0.95472I	-2.24385 - 8.24833I	-4.49922 + 6.95806I
b = -0.923559 - 0.844828I		
u = -0.640898 + 1.241650I		
a = 1.47950 - 1.37909I	-14.2021 - 7.3246I	-7.52732 + 3.21849I
b = 1.82246 + 0.25034I		
u = -0.640898 - 1.241650I		
a = 1.47950 + 1.37909I	-14.2021 + 7.3246I	-7.52732 - 3.21849I
b = 1.82246 - 0.25034I		
u = -0.11613 + 1.42102I		
a = 2.07367 - 0.26407I	-17.7940 - 3.0498I	-8.36562 + 2.61097I
b = 1.93738 + 0.04804I		
u = -0.11613 - 1.42102I		
a = 2.07367 + 0.26407I	-17.7940 + 3.0498I	-8.36562 - 2.61097I
b = 1.93738 - 0.04804I		
u = 0.77397 + 1.20805I		
a = 1.18273 + 1.46175I	-11.4479 + 13.0879I	0 6.81590I
b = 1.78706 - 0.30179I		
u = 0.77397 - 1.20805I		
a = 1.18273 - 1.46175I	-11.4479 - 13.0879I	0. + 6.81590I
b = 1.78706 + 0.30179I		
u = 0.458630		
a = 1.38775	1.26099	8.96990
b = -0.0558807		
u = -0.325204		
a = 1.75723	-1.11358	-9.07280
b = -0.755372		

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

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{6} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{2} + 1 \\ -u^{2} \end{pmatrix}$$

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

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

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

$$a_{9} = \begin{pmatrix} u^{8} - 2u^{7} + 3u^{6} - 3u^{5} + 4u^{4} - 4u^{3} + 3u^{2} - 2u + 1 \\ -1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u \\ u^{8} + u^{7} - u^{6} + 2u^{5} - u^{4} + 2u^{3} + 2u + 1 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $3u^8 8u^7 + 12u^6 11u^5 + 18u^4 17u^3 + 15u^2 6u + 4$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing	
c_1, c_2	$(u-1)^9$	
c_{3}, c_{6}	u^9	
C ₄	$(u+1)^9$	
<i>C</i> 5	$u^9 - u^8 + 2u^7 - u^6 + 3u^5 - u^4 + 2u^3 + u + 1$	
c_7, c_{10}	$u^9 + 3u^8 + 8u^7 + 13u^6 + 17u^5 + 17u^4 + 12u^3 + 6u^2 + u - 1$	
<i>C</i> ₈	$u^9 - u^8 - 2u^7 + 3u^6 + u^5 - 3u^4 + 2u^3 - u + 1$	
<i>C</i> 9	$u^9 + u^8 + 2u^7 + u^6 + 3u^5 + u^4 + 2u^3 + u - 1$	
c_{11}	$u^9 + u^8 - 2u^7 - 3u^6 + u^5 + 3u^4 + 2u^3 - u - 1$	
c_{12}	$u^9 - 5u^8 + 12u^7 - 15u^6 + 9u^5 + u^4 - 4u^3 + 2u^2 + u - 1$	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4	$(y-1)^9$
c_3, c_6	y^9
c_5, c_9	$y^9 + 3y^8 + 8y^7 + 13y^6 + 17y^5 + 17y^4 + 12y^3 + 6y^2 + y - 1$
c_7,c_{10}	$y^9 + 7y^8 + 20y^7 + 25y^6 + 5y^5 - 15y^4 + 22y^2 + 13y - 1$
c_8,c_{11}	$y^9 - 5y^8 + 12y^7 - 15y^6 + 9y^5 + y^4 - 4y^3 + 2y^2 + y - 1$
c_{12}	$y^9 - y^8 + 12y^7 - 7y^6 + 37y^5 + y^4 - 10y^2 + 5y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.140343 + 0.966856I		
a = -1.004430 + 0.297869I	-3.42837 - 2.09337I	-6.83106 + 4.06115I
b = -1.00000		
u = -0.140343 - 0.966856I		
a = -1.004430 - 0.297869I	-3.42837 + 2.09337I	-6.83106 - 4.06115I
b = -1.00000		
u = -0.628449 + 0.875112I		
a = -0.275254 + 0.816341I	-1.02799 - 2.45442I	-7.33502 + 3.27944I
b = -1.00000		
u = -0.628449 - 0.875112I		
a = -0.275254 - 0.816341I	-1.02799 + 2.45442I	-7.33502 - 3.27944I
b = -1.00000		
u = 0.796005 + 0.733148I		
a = 0.070080 - 0.850995I	2.72642 - 1.33617I	-2.78826 + 0.80685I
b = -1.00000		
u = 0.796005 - 0.733148I		
a = 0.070080 + 0.850995I	2.72642 + 1.33617I	-2.78826 - 0.80685I
b = -1.00000		
u = 0.728966 + 0.986295I		
a = -0.195086 - 0.635552I	1.95319 + 7.08493I	-4.66194 - 6.93476I
b = -1.00000		
u = 0.728966 - 0.986295I		
a = -0.195086 + 0.635552I	1.95319 - 7.08493I	-4.66194 + 6.93476I
b = -1.00000		
u = -0.512358		
a = 3.80937	-0.446489	15.2330
b = -1.00000		

III.
$$I_1^v=\langle a,\ b+v-2,\ v^2-3v+1 \rangle$$

(i) Arc colorings

a) Are colorings
$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 0 \\ -v+2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ -v+3 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} v-2 \\ -v+3 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -v+2 \\ -v+2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -v+2 \\ v-3 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} v-2 \\ v-3 \end{pmatrix}$$

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

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

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = -9

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^2 - 3u + 1$
c_2, c_3	$u^2 + u - 1$
c_4, c_6	u^2-u-1
c_5, c_9, c_{10}	u^2
c_7	$u^2 + 3u + 1$
<i>c</i> ₈	$(u+1)^2$
c_{11}, c_{12}	$(u-1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_{1}, c_{7}	$y^2 - 7y + 1$
c_2, c_3, c_4 c_6	$y^2 - 3y + 1$
c_5, c_9, c_{10}	y^2
c_8, c_{11}, c_{12}	$(y-1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^v	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
v = 0.381966		
a = 0	-7.23771	-9.00000
b = 1.61803		
v = 2.61803		
a = 0	0.657974	-9.00000
b = -0.618034		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^9)(u^2-3u+1)(u^{40}+57u^{39}+\cdots+351u+1)$
c_2	$((u-1)^9)(u^2+u-1)(u^{40}-11u^{39}+\cdots+9u+1)$
c_3	$u^{9}(u^{2} + u - 1)(u^{40} + 2u^{39} + \dots + 512u - 512)$
c_4	$((u+1)^9)(u^2-u-1)(u^{40}-11u^{39}+\cdots+9u+1)$
c_5	$u^{2}(u^{9} - u^{8} + \dots + u + 1)(u^{40} - 2u^{39} + \dots + 4u - 4)$
c_6	$u^{9}(u^{2}-u-1)(u^{40}+2u^{39}+\cdots+512u-512)$
c_7	$(u^{2} + 3u + 1)(u^{9} + 3u^{8} + \dots + u - 1)$ $\cdot (u^{40} - 3u^{39} + \dots + u - 1)$
c_8	$(u+1)^{2}(u^{9}-u^{8}-2u^{7}+3u^{6}+u^{5}-3u^{4}+2u^{3}-u+1)$ $\cdot (u^{40}+4u^{39}+\cdots-6u+1)$
c_9	$u^{2}(u^{9} + u^{8} + \dots + u - 1)(u^{40} - 2u^{39} + \dots + 4u - 4)$
c_{10}	$u^{2}(u^{9} + 3u^{8} + 8u^{7} + 13u^{6} + 17u^{5} + 17u^{4} + 12u^{3} + 6u^{2} + u - 1)$ $\cdot (u^{40} + 18u^{39} + \dots - 104u + 16)$
c_{11}	$(u-1)^{2}(u^{9} + u^{8} - 2u^{7} - 3u^{6} + u^{5} + 3u^{4} + 2u^{3} - u - 1)$ $\cdot (u^{40} + 4u^{39} + \dots - 6u + 1)$
c_{12}	$ (u-1)^{2}(u^{9} - 5u^{8} + 12u^{7} - 15u^{6} + 9u^{5} + u^{4} - 4u^{3} + 2u^{2} + u - 1) $ $ \cdot (u^{40} - 20u^{39} + \dots - 94u + 1) $

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$((y-1)^9)(y^2-7y+1)(y^{40}-137y^{39}+\cdots-102695y+1)$
c_2, c_4	$((y-1)^9)(y^2-3y+1)(y^{40}-57y^{39}+\cdots-351y+1)$
c_3, c_6	$y^{9}(y^{2} - 3y + 1)(y^{40} - 60y^{39} + \dots - 3407872y + 262144)$
c_5, c_9	$y^{2}(y^{9} + 3y^{8} + 8y^{7} + 13y^{6} + 17y^{5} + 17y^{4} + 12y^{3} + 6y^{2} + y - 1)$ $\cdot (y^{40} + 18y^{39} + \dots - 104y + 16)$
c ₇	$(y^{2} - 7y + 1)(y^{9} + 7y^{8} + \dots + 13y - 1)$ $\cdot (y^{40} - 85y^{39} + \dots - 31y + 1)$
c_8, c_{11}	$(y-1)^{2}(y^{9} - 5y^{8} + 12y^{7} - 15y^{6} + 9y^{5} + y^{4} - 4y^{3} + 2y^{2} + y - 1)$ $\cdot (y^{40} - 20y^{39} + \dots - 94y + 1)$
c_{10}	$y^{2}(y^{9} + 7y^{8} + 20y^{7} + 25y^{6} + 5y^{5} - 15y^{4} + 22y^{2} + 13y - 1)$ $\cdot (y^{40} + 6y^{39} + \dots - 26912y + 256)$
c_{12}	$(y-1)^{2}(y^{9}-y^{8}+12y^{7}-7y^{6}+37y^{5}+y^{4}-10y^{2}+5y-1)$ $\cdot (y^{40}+4y^{39}+\cdots -7630y+1)$