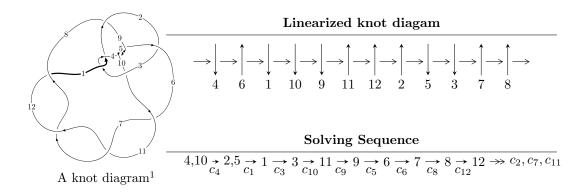
$12a_{1015} \ (K12a_{1015})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 6.55158 \times 10^{71} u^{69} - 2.48630 \times 10^{71} u^{68} + \dots + 4.14466 \times 10^{73} b + 4.49840 \times 10^{73}, \\ -5.30555 \times 10^{74} u^{69} - 8.22334 \times 10^{74} u^{68} + \dots + 4.55913 \times 10^{74} a + 1.52184 \times 10^{74}, \ u^{70} + 2u^{69} + \dots - 2u - 10^{74} u^{74} + 10^{74} u^{74} u^{74} + 10^{74} u^{74} u^{74}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 75 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.

 $\begin{matrix} \text{I.} \\ I_1^u = \langle 6.55 \times 10^{71} u^{69} - 2.49 \times 10^{71} u^{68} + \dots + 4.14 \times 10^{73} b + 4.50 \times 10^{73}, \ -5.31 \times 10^{74} u^{69} - 8.22 \times 10^{74} u^{68} + \dots + 4.56 \times 10^{74} a + 1.52 \times 10^{74}, \ u^{70} + 2u^{69} + \dots - 2u - 1 \rangle \end{matrix}$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} 1.16372u^{69} + 1.80371u^{68} + \dots - 12.1418u - 0.333801 \\ -0.0158073u^{69} + 0.00599879u^{68} + \dots + 0.128028u - 1.08535 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 1.14791u^{69} + 1.80971u^{68} + \dots - 12.0137u - 1.41915 \\ -0.0158073u^{69} + 0.00599879u^{68} + \dots + 0.128028u - 1.08535 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1.16769u^{69} + 1.80098u^{68} + \dots - 12.0610u - 0.269803 \\ 0.0108796u^{69} + 0.0526221u^{68} + \dots + 0.0867825u - 1.10387 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.23789u^{69} + 2.97447u^{68} + \dots - 8.93000u - 7.95394 \\ -0.537189u^{69} - 1.02248u^{68} + \dots + 3.28194u + 1.05622 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} u^{2} + 1 \\ u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.232208u^{69} - 0.851321u^{68} + \dots - 2.00060u + 4.73175 \\ 0.525839u^{69} + 0.960044u^{68} + \dots - 1.03476u - 0.695269 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1.12189u^{69} + 2.81589u^{68} + \dots - 3.33901u - 8.52558 \\ -0.674930u^{69} - 1.33241u^{68} + \dots + 3.69661u + 1.16196 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1.19605u^{69} + 2.08859u^{68} + \dots - 8.12152u - 5.32037 \\ -0.265234u^{69} - 0.371359u^{68} + \dots + 1.22176u - 0.304010 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $4.38477u^{69} + 8.26850u^{68} + \cdots 26.9142u 8.59413$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3	$u^{70} - 6u^{69} + \dots + 1478u - 121$
c_2	$u^{70} - 5u^{69} + \dots - 29568u + 3872$
c_4, c_5, c_9	$u^{70} + 2u^{69} + \dots - 2u - 1$
$c_6, c_7, c_{11} \\ c_{12}$	$u^{70} + 2u^{69} + \dots - 2u + 1$
c ₈	$11(11u^{70} - 25u^{69} + \dots - 132109u - 43949)$
c_{10}	$11(11u^{70} - 8u^{69} + \dots + 29588u + 17257)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing		
c_1, c_3	$y^{70} - 34y^{69} + \dots - 90458y + 14641$		
c_2	$y^{70} - 33y^{69} + \dots - 229160448y + 14992384$		
c_4, c_5, c_9	$y^{70} + 66y^{69} + \dots - 4y + 1$		
c_6, c_7, c_{11} c_{12}	$y^{70} - 82y^{69} + \dots - 4y + 1$		
c_8	$121(121y^{70} - 3045y^{69} + \dots - 4.12871 \times 10^{10}y + 1.93151 \times 10^{9})$		
c_{10}	$121(121y^{70} + 4358y^{69} + \dots + 3.69634 \times 10^9y + 2.97804 \times 10^8)$		

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.686400 + 0.713366I		
a = -0.053948 - 0.210944I	0.87667 + 3.35580I	0
b = 0.951229 - 0.454660I		
u = 0.686400 - 0.713366I		
a = -0.053948 + 0.210944I	0.87667 - 3.35580I	0
b = 0.951229 + 0.454660I		
u = -0.713932 + 0.648184I		
a = -0.188351 + 0.239557I	8.96389 - 6.20258I	0
b = 1.094430 + 0.592356I		
u = -0.713932 - 0.648184I		
a = -0.188351 - 0.239557I	8.96389 + 6.20258I	0
b = 1.094430 - 0.592356I		
u = -0.597225 + 0.868784I		
a = 0.131337 + 0.213010I	-0.594033 + 1.028690I	0
b = 0.779698 + 0.239595I		
u = -0.597225 - 0.868784I		
a = 0.131337 - 0.213010I	-0.594033 - 1.028690I	0
b = 0.779698 - 0.239595I		
u = -0.844565 + 0.393225I		
a = 0.756345 + 0.697914I	-1.98877 + 4.08537I	0 6.03382I
b = 1.027460 - 0.439585I		
u = -0.844565 - 0.393225I		
a = 0.756345 - 0.697914I	-1.98877 - 4.08537I	0. + 6.03382I
b = 1.027460 + 0.439585I		
u = 0.816696 + 0.440810I		
a = 0.730245 - 0.900336I	0.05014 - 8.48498I	0. + 9.02977I
b = 1.155090 + 0.559766I		
u = 0.816696 - 0.440810I		
a = 0.730245 + 0.900336I	0.05014 + 8.48498I	0 9.02977I
b = 1.155090 - 0.559766I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.797710 + 0.463395I		
a = 0.733935 + 1.050130I	8.39434 + 11.28920I	0 7.45273I
b = 1.238960 - 0.666041I		
u = -0.797710 - 0.463395I		
a = 0.733935 - 1.050130I	8.39434 - 11.28920I	0. + 7.45273I
b = 1.238960 + 0.666041I		
u = 0.794883 + 0.243299I		
a = 0.990789 - 0.382417I	1.74452 - 0.22556I	6.21604 + 2.91678I
b = 0.722317 + 0.329197I		
u = 0.794883 - 0.243299I		
a = 0.990789 + 0.382417I	1.74452 + 0.22556I	6.21604 - 2.91678I
b = 0.722317 - 0.329197I		
u = -0.578794 + 0.475444I		
a = -0.214985 - 0.392745I	11.29930 + 5.03905I	6.42974 - 5.21383I
b = 0.298756 + 1.109540I		
u = -0.578794 - 0.475444I		
a = -0.214985 + 0.392745I	11.29930 - 5.03905I	6.42974 + 5.21383I
b = 0.298756 - 1.109540I		
u = -0.077426 + 1.268050I		
a = 1.26161 - 1.02736I	7.81603 + 2.12622I	0
b = -1.67281 + 0.43951I		
u = -0.077426 - 1.268050I		
a = 1.26161 + 1.02736I	7.81603 - 2.12622I	0
b = -1.67281 - 0.43951I		
u = -0.631247 + 0.350474I		
a = 1.50034 + 0.57008I	10.93100 - 1.15018I	6.37418 - 2.37950I
b = 0.428001 - 0.725712I		
u = -0.631247 - 0.350474I		
a = 1.50034 - 0.57008I	10.93100 + 1.15018I	6.37418 + 2.37950I
b = 0.428001 + 0.725712I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.514246 + 1.178650I		
a = 0.234389 - 0.422329I	4.70260 - 4.51481I	0
b = 0.777133 + 0.038992I		
u = 0.514246 - 1.178650I		
a = 0.234389 + 0.422329I	4.70260 + 4.51481I	0
b = 0.777133 - 0.038992I		
u = 0.514025 + 0.489099I		
a = -0.032586 + 0.387308I	2.79286 - 3.41411I	6.06553 + 7.18074I
b = 0.207073 - 0.842044I		
u = 0.514025 - 0.489099I		
a = -0.032586 - 0.387308I	2.79286 + 3.41411I	6.06553 - 7.18074I
b = 0.207073 + 0.842044I		
u = 0.027572 + 1.293330I		
a = 0.713439 + 0.469428I	1.11976 - 1.25245I	0
b = -1.50053 - 0.15574I		
u = 0.027572 - 1.293330I		
a = 0.713439 - 0.469428I	1.11976 + 1.25245I	0
b = -1.50053 + 0.15574I		
u = 0.094528 + 1.350430I		
a = 0.61333 + 1.65329I	2.07680 - 1.88125I	0
b = -1.103700 - 0.576201I		
u = 0.094528 - 1.350430I		
a = 0.61333 - 1.65329I	2.07680 + 1.88125I	0
b = -1.103700 + 0.576201I		
u = -0.133575 + 1.362630I		
a = 0.64422 - 1.85435I	3.26167 + 4.51191I	0
b = -0.974789 + 0.908157I		
u = -0.133575 - 1.362630I		
a = 0.64422 + 1.85435I	3.26167 - 4.51191I	0
b = -0.974789 - 0.908157I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.161960 + 1.367850I		
a = 0.56308 + 2.05596I	10.78790 - 5.95071I	0
b = -0.91957 - 1.18906I		
u = 0.161960 - 1.367850I		
a = 0.56308 - 2.05596I	10.78790 + 5.95071I	0
b = -0.91957 + 1.18906I		
u = -0.057325 + 1.397340I		
a = 0.79387 - 2.50536I	4.63360 + 0.45945I	0
b = -0.854433 + 0.178775I		
u = -0.057325 - 1.397340I		
a = 0.79387 + 2.50536I	4.63360 - 0.45945I	0
b = -0.854433 - 0.178775I		
u = 0.05431 + 1.42323I		
a = 2.44209 + 2.39720I	12.68320 + 0.08405I	0
b = -0.772974 + 0.037973I		
u = 0.05431 - 1.42323I		
a = 2.44209 - 2.39720I	12.68320 - 0.08405I	0
b = -0.772974 - 0.037973I		
u = 0.575705		
a = 1.22607	1.70984	5.97300
b = 0.312657		
u = 0.522828 + 0.213932I		
a = -0.301618 + 0.925186I	5.80188 - 3.48693I	0.21256 + 6.26702I
b = -1.078510 - 0.834623I		
u = 0.522828 - 0.213932I		
a = -0.301618 - 0.925186I	5.80188 + 3.48693I	0.21256 - 6.26702I
b = -1.078510 + 0.834623I		
u = -0.27390 + 1.43660I		
a = 0.53012 + 1.40501I	16.5894 + 2.2326I	0
b = 0.798447 - 0.686186I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.27390 - 1.43660I		
a = 0.53012 - 1.40501I	16.5894 - 2.2326I	0
b = 0.798447 + 0.686186I		
u = -0.296415 + 0.442080I		
a = 0.505486 - 0.384301I	0.074574 + 0.954323I	1.69242 - 6.62051I
b = 0.011825 + 0.286358I		
u = -0.296415 - 0.442080I		
a = 0.505486 + 0.384301I	0.074574 - 0.954323I	1.69242 + 6.62051I
b = 0.011825 - 0.286358I		
u = -0.516350		
a = -0.747230	4.13003	-2.66790
b = -1.59427		
u = 0.31116 + 1.45838I		
a = 0.165497 - 1.346330I	7.32955 - 4.26678I	0
b = 0.987560 + 0.582127I		
u = 0.31116 - 1.45838I		
a = 0.165497 + 1.346330I	7.32955 + 4.26678I	0
b = 0.987560 - 0.582127I		
u = 0.18529 + 1.48231I		
a = -0.56128 + 1.40862I	9.18672 - 6.01404I	0
b = 0.350564 - 1.174690I		
u = 0.18529 - 1.48231I		
a = -0.56128 - 1.40862I	9.18672 + 6.01404I	0
b = 0.350564 + 1.174690I		
u = -0.20329 + 1.48122I		
a = -0.76720 - 1.54412I	17.6404 + 7.9075I	0
b = 0.44380 + 1.35657I		
u = -0.20329 - 1.48122I		
a = -0.76720 + 1.54412I	17.6404 - 7.9075I	0
b = 0.44380 - 1.35657I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.465530 + 0.181096I		
a = -0.482595 - 1.101610I	-1.59167 + 2.36731I	-3.11903 - 9.00869I
b = -1.074710 + 0.528711I		
u = -0.465530 - 0.181096I		
a = -0.482595 + 1.101610I	-1.59167 - 2.36731I	-3.11903 + 9.00869I
b = -1.074710 - 0.528711I		
u = -0.15387 + 1.49344I		
a = -0.313268 - 1.110630I	6.62342 + 2.84491I	0
b = 0.304389 + 0.861897I		
u = -0.15387 - 1.49344I		
a = -0.313268 + 1.110630I	6.62342 - 2.84491I	0
b = 0.304389 - 0.861897I		
u = -0.31045 + 1.49001I		
a = -0.09717 + 1.48789I	4.10310 + 8.26194I	0
b = 1.160460 - 0.608170I		
u = -0.31045 - 1.49001I		
a = -0.09717 - 1.48789I	4.10310 - 8.26194I	0
b = 1.160460 + 0.608170I		
u = 0.212174 + 0.423840I		
a = 3.71972 + 1.14676I	6.92279 + 1.01855I	7.26660 + 6.17697I
b = -1.020370 + 0.337236I		
u = 0.212174 - 0.423840I		
a = 3.71972 - 1.14676I	6.92279 - 1.01855I	7.26660 - 6.17697I
b = -1.020370 - 0.337236I		
u = 0.29881 + 1.50168I		
a = -0.19283 - 1.67138I	6.33511 - 12.54100I	0
b = 1.25053 + 0.69071I		
u = 0.29881 - 1.50168I		
a = -0.19283 + 1.67138I	6.33511 + 12.54100I	0
b = 1.25053 - 0.69071I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.29039 + 1.50769I		
a = -0.24071 + 1.82752I	14.7792 + 15.2576I	0
b = 1.30886 - 0.76850I		
u = -0.29039 - 1.50769I		
a = -0.24071 - 1.82752I	14.7792 - 15.2576I	0
b = 1.30886 + 0.76850I		
u = 0.15367 + 1.54248I		
a = -0.510964 + 0.695006I	8.47071 + 0.57802I	0
b = 0.606981 - 0.660450I		
u = 0.15367 - 1.54248I		
a = -0.510964 - 0.695006I	8.47071 - 0.57802I	0
b = 0.606981 + 0.660450I		
u = -0.18664 + 1.56544I		
a = -0.799854 - 0.540948I	16.3833 - 2.9707I	0
b = 0.866770 + 0.671583I		
u = -0.18664 - 1.56544I		
a = -0.799854 + 0.540948I	16.3833 + 2.9707I	0
b = 0.866770 - 0.671583I		
u = 0.410685 + 0.072099I		
a = -1.48188 + 0.86518I	-2.39243 - 0.16622I	-6.14498 - 3.46672I
b = -1.199220 - 0.163900I		
u = 0.410685 - 0.072099I		
a = -1.48188 - 0.86518I	-2.39243 + 0.16622I	-6.14498 + 3.46672I
b = -1.199220 + 0.163900I		
u = -0.176628 + 0.303504I		
a = 4.01544 - 3.09185I	-0.643301 - 0.452052I	0.8141 - 14.9412I
b = -0.957887 - 0.108785I		
u = -0.176628 - 0.303504I		
a = 4.01544 + 3.09185I	-0.643301 + 0.452052I	0.8141 + 14.9412I
b = -0.957887 + 0.108785I		

II.
$$I_2^u = \langle b+1, 6u^4 - u^3 + 4u^2 + 11a - 6u + 2, u^5 + u^4 + 2u^3 + u^2 + u + 1 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} -0.545455u^{4} + 0.0909091u^{3} + \dots + 0.545455u - 0.181818 \\ -1 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.545455u^{4} + 0.0909091u^{3} + \dots + 0.545455u - 1.18182 \\ -1 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.545455u^{4} + 0.0909091u^{3} + \dots + 0.545455u - 0.181818 \\ -1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.280992u^{4} - 0.0165289u^{3} + \dots + 0.0826446u + 0.487603 \\ 0.636364u^{4} + 0.727273u^{3} + \dots + 1.36364u + 0.545455 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} u^{2} + 1 \\ u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.157025u^{4} + 0.0495868u^{3} + \dots - 0.247934u + 1.53719 \\ 0.0909091u^{4} - 0.181818u^{3} + \dots - 0.0909091u + 0.363636 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.0991736u^{4} - 0.347107u^{3} + \dots + 0.735537u + 0.239669 \\ 0.363636u^{4} + 1.27273u^{3} + \dots + 1.63636u + 0.454545 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -1.24793u^{4} + 0.132231u^{3} + \dots + 0.338843u - 0.900826 \\ -1.09091u^{4} - 0.818182u^{3} + \dots + 0.0909091u - 1.36364 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-\frac{4}{121}u^4 + \frac{349}{121}u^3 + \frac{441}{121}u^2 + \frac{554}{121}u \frac{71}{121}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u-1)^5$
c_2	u^5
<i>c</i> ₃	$(u+1)^5$
c_4, c_5	$u^5 + u^4 + 2u^3 + u^2 + u + 1$
c_{6}, c_{7}	$u^5 - u^4 - 2u^3 + u^2 + u + 1$
<i>c</i> ₈	$11(11u^5 - 2u^4 + 6u^3 + u^2 + 1)$
<i>C</i> 9	$u^5 - u^4 + 2u^3 - u^2 + u - 1$
c_{10}	$11(11u^5 + 13u^4 - 3u^2 + u + 1)$
c_{11}, c_{12}	$u^5 + u^4 - 2u^3 - u^2 + u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3	$(y-1)^5$
c_2	y^5
c_4, c_5, c_9	$y^5 + 3y^4 + 4y^3 + y^2 - y - 1$
c_6, c_7, c_{11} c_{12}	$y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1$
c ₈	$121(121y^5 + 128y^4 + 40y^3 + 3y^2 - 2y - 1)$
c_{10}	$121(121y^5 - 169y^4 + 100y^3 - 35y^2 + 7y - 1)$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.339110 + 0.822375I		
a = 0.146090 + 0.562510I	-1.31583 - 1.53058I	-2.95202 + 5.03288I
b = -1.00000		
u = 0.339110 - 0.822375I		
a = 0.146090 - 0.562510I	-1.31583 + 1.53058I	-2.95202 - 5.03288I
b = -1.00000		
u = -0.766826		
a = -1.04351	0.756147	-3.26660
b = -1.00000		
u = -0.455697 + 1.200150I		
a = 0.012026 - 0.507727I	4.22763 + 4.40083I	-1.77007 - 1.41023I
b = -1.00000		
u = -0.455697 - 1.200150I		
a = 0.012026 + 0.507727I	4.22763 - 4.40083I	-1.77007 + 1.41023I
b = -1.00000		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^5)(u^{70} - 6u^{69} + \dots + 1478u - 121)$
c_2	$u^5(u^{70} - 5u^{69} + \dots - 29568u + 3872)$
c_3	$((u+1)^5)(u^{70} - 6u^{69} + \dots + 1478u - 121)$
c_4, c_5	$(u^5 + u^4 + 2u^3 + u^2 + u + 1)(u^{70} + 2u^{69} + \dots - 2u - 1)$
c_{6}, c_{7}	$ (u5 - u4 - 2u3 + u2 + u + 1)(u70 + 2u69 + \dots - 2u + 1) $
<i>C</i> ₈	$121(11u^5 - 2u^4 + 6u^3 + u^2 + 1)$ $\cdot (11u^{70} - 25u^{69} + \dots - 132109u - 43949)$
c_9	$ (u5 - u4 + 2u3 - u2 + u - 1)(u70 + 2u69 + \dots - 2u - 1) $
c_{10}	$121(11u^5 + 13u^4 - 3u^2 + u + 1)$ $\cdot (11u^{70} - 8u^{69} + \dots + 29588u + 17257)$
c_{11}, c_{12}	$(u^5 + u^4 - 2u^3 - u^2 + u - 1)(u^{70} + 2u^{69} + \dots - 2u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_3	$((y-1)^5)(y^{70} - 34y^{69} + \dots - 90458y + 14641)$
c_2	$y^5(y^{70} - 33y^{69} + \dots - 2.29160 \times 10^8 y + 1.49924 \times 10^7)$
c_4,c_5,c_9	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)(y^{70} + 66y^{69} + \dots - 4y + 1)$
c_6, c_7, c_{11} c_{12}	$(y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1)(y^{70} - 82y^{69} + \dots - 4y + 1)$
c_8	$14641(121y^5 + 128y^4 + 40y^3 + 3y^2 - 2y - 1)$ $\cdot (121y^{70} - 3045y^{69} + \dots - 41287121663y + 1931514601)$
c_{10}	$14641(121y^5 - 169y^4 + 100y^3 - 35y^2 + 7y - 1)$ $\cdot (121y^{70} + 4358y^{69} + \dots + 3696343724y + 297804049)$