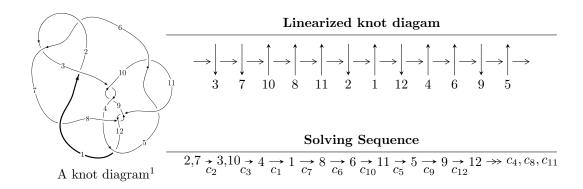
$12a_{0625} (K12a_{0625})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1457u^{41} - 15255u^{40} + \dots + 16b - 57360, \ -3585u^{41} - 36521u^{40} + \dots + 32a - 109328, \\ &u^{42} + 11u^{41} + \dots + 336u + 32 \rangle \\ I_2^u &= \langle 3.42256 \times 10^{57}a^9u^8 - 3.62814 \times 10^{57}a^8u^8 + \dots + 3.06417 \times 10^{58}a + 2.10624 \times 10^{59}, \\ &- a^9u^8 + 4a^8u^8 + \dots + 163a + 35, \ u^9 - u^8 - 2u^7 + 3u^6 + u^5 - 3u^4 + 2u^3 - u + 1 \rangle \\ I_3^u &= \langle -2u^{27} - u^{26} + \dots + b - 6, \ 6u^{27} - 2u^{26} + \dots + a - 4, \ u^{28} - 8u^{26} + \dots - 5u^2 + 1 \rangle \end{split}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 160 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.
$$I_1^u = \langle -1457u^{41} - 15255u^{40} + \dots + 16b - 57360, \ -3585u^{41} - 36521u^{40} + \dots + 32a - 109328, \ u^{42} + 11u^{41} + \dots + 336u + 32 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 112.031u^{41} + 1141.28u^{40} + \dots + 33519u + 3416.50 \\ 91.0625u^{41} + 953.438u^{40} + \dots + 34226u + 3585 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -20u^{41} - 211u^{40} + \dots - \frac{10527}{2}u - \frac{1023}{2} \\ -9u^{41} - \frac{233}{2}u^{40} + \dots - \frac{12415}{2}u - 640 \end{pmatrix}$$

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

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

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

$$a_{11} = \begin{pmatrix} 50.5313u^{41} + 542.531u^{40} + \dots + 19805u + 2046.50 \\ \frac{473}{16}u^{41} + \frac{5675}{16}u^{40} + \dots + 20512u + 2215 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -\frac{29}{2}u^{41} - 140u^{40} + \dots - \frac{6575}{2}u - \frac{671}{2} \\ -\frac{51}{2}u^{41} - \frac{469}{16}u^{40} + \dots - \frac{4687}{2}u - 208 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} \frac{455}{8}u^{41} + \frac{9607}{16}u^{40} + \dots + 21813u + 2262 \\ \frac{143}{16}u^{41} + \frac{1976}{16}u^{40} + \dots + 11268u + 1222 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} \frac{75}{4}u^{41} + 193u^{40} + \dots + \frac{21905}{4}u + 553 \\ -\frac{9}{4}u^{41} - \frac{27}{2}u^{40} + \dots + 2904u + 352 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-\frac{9}{2}u^{41} 114u^{40} + \dots 16628u 1806$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{42} + 21u^{41} + \dots - 256u + 1024$
c_{2}, c_{6}	$u^{42} - 11u^{41} + \dots - 336u + 32$
$c_3, c_5, c_9 \ c_{10}$	$u^{42} + 17u^{40} + \dots - u + 1$
c_4, c_{12}	$u^{42} - 3u^{40} + \dots + u + 1$
c_7	$u^{42} - 30u^{41} + \dots - 6179216u + 430496$
c_8, c_{11}	$u^{42} - 24u^{41} + \dots - 10752u + 512$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{42} - y^{41} + \dots + 9240576y + 1048576$
c_2, c_6	$y^{42} - 21y^{41} + \dots + 256y + 1024$
c_3, c_5, c_9 c_{10}	$y^{42} + 34y^{41} + \dots - 7y + 1$
c_4, c_{12}	$y^{42} - 6y^{41} + \dots - 27y + 1$
C ₇	$y^{42} + 20y^{41} + \dots + 1352203186432y + 185326806016$
c_8, c_{11}	$y^{42} + 24y^{41} + \dots + 262144y + 262144$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.674235 + 0.795277I		
a = 0.080408 + 1.328660I	0.40327 - 5.88245I	2.00000 + 4.81824I
b = 1.110860 + 0.831880I		
u = -0.674235 - 0.795277I		
a = 0.080408 - 1.328660I	0.40327 + 5.88245I	2.00000 - 4.81824I
b = 1.110860 - 0.831880I		
u = -0.897205 + 0.535743I		
a = 1.61355 - 0.35780I	3.86650 + 2.93954I	6.87204 - 5.52863I
b = 1.25600 - 1.18547I		
u = -0.897205 - 0.535743I		
a = 1.61355 + 0.35780I	3.86650 - 2.93954I	6.87204 + 5.52863I
b = 1.25600 + 1.18547I		
u = -0.196032 + 0.924569I		
a = -0.899740 + 0.858235I	-7.95327 - 7.20205I	-2.30272 + 4.84345I
b = 0.617120 + 1.000110I		
u = -0.196032 - 0.924569I		
a = -0.899740 - 0.858235I	-7.95327 + 7.20205I	-2.30272 - 4.84345I
b = 0.617120 - 1.000110I		
u = -0.513181 + 0.939058I		
a = 0.000683 - 0.960818I	-0.94029 + 1.63835I	5.14240 - 3.16816I
b = -0.901913 - 0.493715I		
u = -0.513181 - 0.939058I		
a = 0.000683 + 0.960818I	-0.94029 - 1.63835I	5.14240 + 3.16816I
b = -0.901913 + 0.493715I		
u = -0.199922 + 0.890800I		
a = 1.11885 - 0.92567I	-4.7341 - 13.6105I	0.87068 + 7.00952I
b = -0.600904 - 1.181730I		
u = -0.199922 - 0.890800I		
a = 1.11885 + 0.92567I	-4.7341 + 13.6105I	0.87068 - 7.00952I
b = -0.600904 + 1.181730I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.032180 + 0.369212I		
a = 0.212287 + 0.051646I	-1.81583 - 1.72148I	0
b = -0.200051 - 0.131687I		
u = 1.032180 - 0.369212I		
a = 0.212287 - 0.051646I	-1.81583 + 1.72148I	0
b = -0.200051 + 0.131687I		
u = 1.079330 + 0.256072I		
a = -0.186841 + 0.199670I	-0.789550 + 0.559793I	0
b = 0.252792 - 0.167664I		
u = 1.079330 - 0.256072I		
a = -0.186841 - 0.199670I	-0.789550 - 0.559793I	0
b = 0.252792 + 0.167664I		
u = -0.631100 + 0.584325I		
a = -1.06958 + 1.01232I	4.63519 + 1.52738I	8.88253 - 1.45936I
b = -0.083490 + 1.263860I		
u = -0.631100 - 0.584325I		
a = -1.06958 - 1.01232I	4.63519 - 1.52738I	8.88253 + 1.45936I
b = -0.083490 - 1.263860I		
u = -0.915481 + 0.700428I		
a = 1.43441 + 0.67283I	-0.32564 + 11.42950I	0
b = 1.78445 - 0.38874I		
u = -0.915481 - 0.700428I		
a = 1.43441 - 0.67283I	-0.32564 - 11.42950I	0
b = 1.78445 + 0.38874I		
u = -1.056260 + 0.515954I		
a = -0.750294 + 0.590460I	-0.73191 + 4.82324I	0
b = -0.487854 + 1.010800I		
u = -1.056260 - 0.515954I		
a = -0.750294 - 0.590460I	-0.73191 - 4.82324I	0
b = -0.487854 - 1.010800I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.172613 + 0.773707I		
a = 0.706336 + 0.041146I	0.31212 - 1.94553I	1.90117 - 0.77414I
b = -0.090088 - 0.553599I		
u = 0.172613 - 0.773707I		
a = 0.706336 - 0.041146I	0.31212 + 1.94553I	1.90117 + 0.77414I
b = -0.090088 + 0.553599I		
u = -0.328546 + 0.702460I		
a = -0.763896 - 0.602422I	3.37169 - 3.11074I	7.82977 + 0.59012I
b = -0.674152 + 0.338684I		
u = -0.328546 - 0.702460I		
a = -0.763896 + 0.602422I	3.37169 + 3.11074I	7.82977 - 0.59012I
b = -0.674152 - 0.338684I		
u = -1.105800 + 0.547612I		
a = 0.008344 - 0.999378I	1.12490 + 7.89388I	0
b = -0.538045 - 1.109690I		
u = -1.105800 - 0.547612I		
a = 0.008344 + 0.999378I	1.12490 - 7.89388I	0
b = -0.538045 + 1.109690I		
u = -1.034310 + 0.749961I		
a = -1.035710 - 0.489167I	-2.48081 + 4.43896I	0
b = -1.43809 + 0.27079I		
u = -1.034310 - 0.749961I		
a = -1.035710 + 0.489167I	-2.48081 - 4.43896I	0
b = -1.43809 - 0.27079I		
u = 1.273780 + 0.320998I		
a = 0.339446 + 0.408725I	-9.45635 + 9.55250I	0
b = -0.301180 - 0.629587I		
$\iota = 1.273780 - 0.320998I$		
a = 0.339446 - 0.408725I	-9.45635 - 9.55250I	0
b = -0.301180 + 0.629587I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.399664 + 0.544104I		
a = 0.909536 - 0.090667I	1.145080 - 0.501768I	8.23694 + 2.15140I
b = 0.314177 - 0.531118I		
u = -0.399664 - 0.544104I		
a = 0.909536 + 0.090667I	1.145080 + 0.501768I	8.23694 - 2.15140I
b = 0.314177 + 0.531118I		
u = -1.210730 + 0.556462I		
a = -1.97220 + 0.64883I	-7.7808 + 18.8802I	0
b = -2.02675 + 1.88302I		
u = -1.210730 - 0.556462I		
a = -1.97220 - 0.64883I	-7.7808 - 18.8802I	0
b = -2.02675 - 1.88302I		
u = 1.306310 + 0.316617I		
a = -0.263807 - 0.388277I	-12.84150 + 2.96984I	0
b = 0.221677 + 0.590735I		
u = 1.306310 - 0.316617I		
a = -0.263807 + 0.388277I	-12.84150 - 2.96984I	0
b = 0.221677 - 0.590735I		
u = -1.223530 + 0.563220I		
a = 1.77160 - 0.50494I	-11.0732 + 12.5871I	0
b = 1.88321 - 1.61561I		
u = -1.223530 - 0.563220I		
a = 1.77160 + 0.50494I	-11.0732 - 12.5871I	0
b = 1.88321 + 1.61561I		
u = 1.342730 + 0.165815I		
a = 0.065422 + 0.397087I	-7.39787 - 4.96712I	0
b = -0.022002 - 0.544029I		
u = 1.342730 - 0.165815I		
a = 0.065422 - 0.397087I	-7.39787 + 4.96712I	0
b = -0.022002 + 0.544029I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.32094 + 0.50553I		
a = -1.068810 + 0.664801I	-4.11032 + 6.77393I	0
b = -1.07576 + 1.41848I		
u = -1.32094 - 0.50553I		
a = -1.068810 - 0.664801I	-4.11032 - 6.77393I	0
b = -1.07576 - 1.41848I		

II.
$$I_2^u = \langle 3.42 \times 10^{57} a^9 u^8 - 3.63 \times 10^{57} a^8 u^8 + \dots + 3.06 \times 10^{58} a + 2.11 \times 10^{59}, -a^9 u^8 + 4a^8 u^8 + \dots + 163a + 35, u^9 - u^8 - 2u^7 + 3u^6 + u^5 - 3u^4 + 2u^3 - u + 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0712580a^{9}u^{8} + 0.0755383a^{8}u^{8} + \cdots - 0.637963a - 4.38520 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0584008a^{9}u^{8} - 0.0300572a^{8}u^{8} + \cdots - 5.51490a + 0.377013 \\ 0.0549383a^{9}u^{8} - 0.0452833a^{8}u^{8} + \cdots - 7.58208a - 1.17835 \end{pmatrix}$$

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

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

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

$$a_{11} = \begin{pmatrix} 0.00108894a^{9}u^{8} + 0.0965666a^{8}u^{8} + \cdots - 2.75887a - 0.950595 \\ -0.0701691a^{9}u^{8} + 0.172105a^{8}u^{8} + \cdots - 4.39683a - 5.33580 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.109055a^{9}u^{8} + 0.108963a^{8}u^{8} + \cdots - 2.14889a - 1.68427 \\ 0.0310586a^{9}u^{8} + 0.0638539a^{8}u^{8} + \cdots - 5.80623a - 0.240168 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.00526858a^{9}u^{8} + 0.00207832a^{8}u^{8} + \cdots + 4.33867a + 4.07290 \\ -0.000848598a^{9}u^{8} - 0.0162695a^{8}u^{8} + \cdots + 16.4296a + 6.90589 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.120100a^{9}u^{8} + 0.0400133a^{8}u^{8} + \cdots - 0.561264a - 1.82874 \\ -0.0635614a^{9}u^{8} + 0.00692470a^{8}u^{8} + \cdots - 9.08400a - 5.46049 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.0987063a^9u^8 + 0.116009a^8u^8 + \cdots 19.0748a 6.36312$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing		
c_1	$(u^9 + 5u^8 + 12u^7 + 15u^6 + 9u^5 - u^4 - 4u^3 - 2u^2 + u + 1)^{10}$		
c_2, c_6	$(u^9 + u^8 - 2u^7 - 3u^6 + u^5 + 3u^4 + 2u^3 - u - 1)^{10}$		
c_3, c_5, c_9 c_{10}	$u^{90} + u^{89} + \dots + 7431322u + 1174423$		
c_4,c_{12}	$u^{90} - 5u^{89} + \dots + 46u + 7$		
	$ (u^9 + 3u^8 + 8u^7 + 13u^6 + 17u^5 + 17u^4 + 12u^3 + 6u^2 + u - 1)^{10} $		
c_8, c_{11}	$(u^5 + u^4 + 2u^3 + u^2 + u + 1)^{18}$		

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing		
c_1	$(y^9 - y^8 + 12y^7 - 7y^6 + 37y^5 + y^4 - 10y^2 + 5y - 1)^{10}$		
c_2, c_6	$(y^9 - 5y^8 + 12y^7 - 15y^6 + 9y^5 + y^4 - 4y^3 + 2y^2 + y - 1)^{10}$		
c_3, c_5, c_9 c_{10}	$y^{90} + 75y^{89} + \dots + 22867447038168y + 1379269382929$		
c_4, c_{12}	$y^{90} + 15y^{89} + \dots + 3680y + 49$		
c_7	$(y^9 + 7y^8 + 20y^7 + 25y^6 + 5y^5 - 15y^4 + 22y^2 + 13y - 1)^{10}$		
c_8, c_{11}	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)^{18}$		

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.772920 + 0.510351I		
a = 0.522149 + 0.844231I	2.72120 + 2.30746I	5.25931 + 0.66425I
b = 0.17636 + 1.65146I		
u = 0.772920 + 0.510351I		
a = 1.114750 + 0.143726I	-0.75029 - 2.09337I	1.99613 + 4.16283I
b = 0.522706 + 0.092356I		
u = 0.772920 + 0.510351I		
a = 1.317910 + 0.023336I	2.72120 - 6.49421I	5.25931 + 7.66142I
b = 1.42189 + 1.32751I		
u = 0.772920 + 0.510351I		
a = -0.525892 + 0.227752I	-0.75029 - 2.09337I	1.99613 + 4.16283I
b = -0.788261 - 0.680002I		
u = 0.772920 + 0.510351I		
a = -1.14137 - 1.38302I	2.72120 + 2.30746I	5.25931 + 0.66425I
b = 0.027275 - 0.919003I		
u = 0.772920 + 0.510351I		
a = 1.17889 - 1.64289I	-2.82227 - 0.56279I	1.030106 - 0.267817I
b = 1.94743 - 0.93765I		
u = 0.772920 + 0.510351I		
a = -1.41315 + 1.50457I	-2.82227 - 3.62395I	1.03011 + 8.59348I
b = -2.19306 + 0.41207I		
u = 0.772920 + 0.510351I		
a = -2.07084 - 0.35016I	2.72120 - 6.49421I	5.25931 + 7.66142I
b = -1.006730 - 0.690634I		
u = 0.772920 + 0.510351I		
a = -1.19678 + 2.00335I	-2.82227 - 0.56279I	1.030106 - 0.267817I
b = -1.74964 + 0.66817I		
u = 0.772920 + 0.510351I		
a = 1.73076 - 1.67594I	-2.82227 - 3.62395I	1.03011 + 8.59348I
b = 1.86011 - 0.44171I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.772920 - 0.510351I		
a = 0.522149 - 0.844231I	2.72120 - 2.30746I	5.25931 - 0.66425I
b = 0.17636 - 1.65146I		
u = 0.772920 - 0.510351I		
a = 1.114750 - 0.143726I	-0.75029 + 2.09337I	1.99613 - 4.16283I
b = 0.522706 - 0.092356I		
u = 0.772920 - 0.510351I		
a = 1.317910 - 0.023336I	2.72120 + 6.49421I	5.25931 - 7.66142I
b = 1.42189 - 1.32751I		
u = 0.772920 - 0.510351I		
a = -0.525892 - 0.227752I	-0.75029 + 2.09337I	1.99613 - 4.16283I
b = -0.788261 + 0.680002I		
u = 0.772920 - 0.510351I		
a = -1.14137 + 1.38302I	2.72120 - 2.30746I	5.25931 - 0.66425I
b = 0.027275 + 0.919003I		
u = 0.772920 - 0.510351I		
a = 1.17889 + 1.64289I	-2.82227 + 0.56279I	1.030106 + 0.267817I
b = 1.94743 + 0.93765I		
u = 0.772920 - 0.510351I		
a = -1.41315 - 1.50457I	-2.82227 + 3.62395I	1.03011 - 8.59348I
b = -2.19306 - 0.41207I		
u = 0.772920 - 0.510351I		
a = -2.07084 + 0.35016I	2.72120 + 6.49421I	5.25931 - 7.66142I
b = -1.006730 + 0.690634I		
u = 0.772920 - 0.510351I		
a = -1.19678 - 2.00335I	-2.82227 + 0.56279I	1.030106 + 0.267817I
b = -1.74964 - 0.66817I		
u = 0.772920 - 0.510351I		
a = 1.73076 + 1.67594I	-2.82227 + 3.62395I	1.03011 - 8.59348I
b = 1.86011 + 0.44171I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.825933		
a = -0.476007 + 0.067634I	-5.80415 + 1.53058I	-8.13723 - 4.43065I
b = -0.51907 - 1.67449I		
u = -0.825933		
a = -0.476007 - 0.067634I	-5.80415 - 1.53058I	-8.13723 + 4.43065I
b = -0.51907 + 1.67449I		
u = -0.825933		
a = -0.62847 + 2.02740I	-5.80415 - 1.53058I	-8.13723 + 4.43065I
b = -0.393149 - 0.055861I		
u = -0.825933		
a = -0.62847 - 2.02740I	-5.80415 + 1.53058I	-8.13723 - 4.43065I
b = -0.393149 + 0.055861I		
u = -0.825933		
a = 2.19158 + 0.04238I	-0.26068 - 4.40083I	-3.90804 + 3.49859I
b = 2.36602 - 0.68010I		
u = -0.825933		
a = 2.19158 - 0.04238I	-0.26068 + 4.40083I	-3.90804 - 3.49859I
b = 2.36602 + 0.68010I		
u = -0.825933		
a = -2.16987 + 0.54772I	-3.73217	-7.17121 + 0.I
b = -1.79217 - 0.45238I		
u = -0.825933		
a = -2.16987 - 0.54772I	-3.73217	-7.17121 + 0.I
b = -1.79217 + 0.45238I		
u = -0.825933		
a = 2.86466 + 0.82344I	-0.26068 + 4.40083I	-3.90804 - 3.49859I
b = 1.81010 - 0.03500I		
u = -0.825933		
a = 2.86466 - 0.82344I	-0.26068 - 4.40083I	-3.90804 + 3.49859I
b = 1.81010 + 0.03500I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.173910 + 0.391555I		
a = 0.180120 - 1.006390I	-8.97705 - 0.19441I	-6.76898 + 3.72890I
b = -0.882145 + 0.065167I		
u = -1.173910 + 0.391555I		
a = 1.004320 - 0.370378I	-8.97705 + 2.86675I	-6.76898 - 5.13240I
b = 0.532694 + 0.531817I		
u = -1.173910 + 0.391555I		
a = 0.462278 - 0.785629I	-6.90507 + 1.33617I	-5.80295 - 0.70175I
b = 0.75098 - 1.81026I		
u = -1.173910 + 0.391555I		
a = -0.301740 + 1.190390I	-3.43359 - 3.06466I	-2.53978 + 2.79684I
b = -0.73634 + 2.05646I		
u = -1.173910 + 0.391555I		
a = -0.692888 - 0.175598I	-8.97705 - 0.19441I	-6.76898 + 3.72890I
b = -0.182613 - 1.251940I		
u = -1.173910 + 0.391555I		
a = -0.975268 + 0.845917I	-3.43359 + 5.73700I	-2.53978 - 4.20034I
b = -0.85954 + 1.84219I		
u = -1.173910 + 0.391555I		
a = 0.272368 + 0.543878I	-8.97705 + 2.86675I	-6.76898 - 5.13240I
b = 1.033960 - 0.828037I		
u = -1.173910 + 0.391555I		
a = 1.03854 - 1.19568I	-6.90507 + 1.33617I	-5.80295 - 0.70175I
b = 0.235057 - 1.103270I		
u = -1.173910 + 0.391555I		
a = -1.12992 + 1.19239I	-3.43359 + 5.73700I	-2.53978 - 4.20034I
b = -0.81366 + 1.37490I		
u = -1.173910 + 0.391555I		
a = -1.09027 + 1.38815I	-3.43359 - 3.06466I	-2.53978 + 2.79684I
b = 0.11189 + 1.51556I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.173910 - 0.391555I		
a = 0.180120 + 1.006390I	-8.97705 + 0.19441I	-6.76898 - 3.72890I
b = -0.882145 - 0.065167I		
u = -1.173910 - 0.391555I		
a = 1.004320 + 0.370378I	-8.97705 - 2.86675I	-6.76898 + 5.13240I
b = 0.532694 - 0.531817I		
u = -1.173910 - 0.391555I		
a = 0.462278 + 0.785629I	-6.90507 - 1.33617I	-5.80295 + 0.70175I
b = 0.75098 + 1.81026I		
u = -1.173910 - 0.391555I		
a = -0.301740 - 1.190390I	-3.43359 + 3.06466I	-2.53978 - 2.79684I
b = -0.73634 - 2.05646I		
u = -1.173910 - 0.391555I		
a = -0.692888 + 0.175598I	-8.97705 + 0.19441I	-6.76898 - 3.72890I
b = -0.182613 + 1.251940I		
u = -1.173910 - 0.391555I		
a = -0.975268 - 0.845917I	-3.43359 - 5.73700I	-2.53978 + 4.20034I
b = -0.85954 - 1.84219I		
u = -1.173910 - 0.391555I		
a = 0.272368 - 0.543878I	-8.97705 - 2.86675I	-6.76898 + 5.13240I
b = 1.033960 + 0.828037I		
u = -1.173910 - 0.391555I		
a = 1.03854 + 1.19568I	-6.90507 - 1.33617I	-5.80295 + 0.70175I
b = 0.235057 + 1.103270I		
u = -1.173910 - 0.391555I		
a = -1.12992 - 1.19239I	-3.43359 - 5.73700I	-2.53978 + 4.20034I
b = -0.81366 - 1.37490I		
u = -1.173910 - 0.391555I		
a = -1.09027 - 1.38815I	-3.43359 + 3.06466I	-2.53978 - 2.79684I
b = 0.11189 - 1.51556I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.141484 + 0.739668I		
a = 0.833321 + 0.197836I	0.32082 - 1.94642I	2.41639 + 0.58561I
b = -0.148096 - 0.486452I		
u = 0.141484 + 0.739668I		
a = 0.671396 - 0.071794I	0.32082 - 1.94642I	2.41639 + 0.58561I
b = 0.028431 - 0.644371I		
u = 0.141484 + 0.739668I		
a = -0.568678 + 0.319831I	0.32082 + 6.85525I	2.41639 - 6.41156I
b = -0.08989 - 1.48960I		
u = 0.141484 + 0.739668I		
a = 1.41403 + 0.59823I	-5.22264 + 3.98500I	-1.81281 - 7.34362I
b = -0.68925 + 1.35493I		
u = 0.141484 + 0.739668I		
a = 0.342864 + 0.158229I	-3.15066 + 2.45442I	-0.84678 - 2.91298I
b = -0.114649 + 1.239450I		
u = 0.141484 + 0.739668I		
a = -1.58794 - 0.45874I	-3.15066 + 2.45442I	-0.84678 - 2.91298I
b = 0.068527 - 0.275993I		
u = 0.141484 + 0.739668I		
a = 1.07862 + 1.32292I	-5.22264 + 0.92384I	-1.81281 + 1.51767I
b = -0.402567 + 1.251020I		
u = 0.141484 + 0.739668I		
a = -1.53120 - 0.83714I	-5.22264 + 0.92384I	-1.81281 + 1.51767I
b = 0.825911 - 0.984993I		
u = 0.141484 + 0.739668I		
a = 1.96522 + 0.25438I	0.32082 + 6.85525I	2.41639 - 6.41156I
b = 0.317028 + 0.375382I		
u = 0.141484 + 0.739668I		
a = -1.59520 - 1.23697I	-5.22264 + 3.98500I	-1.81281 - 7.34362I
b = 0.242430 - 1.130550I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.141484 - 0.739668I		
a = 0.833321 - 0.197836I	0.32082 + 1.94642I	2.41639 - 0.58561I
b = -0.148096 + 0.486452I		
u = 0.141484 - 0.739668I		
a = 0.671396 + 0.071794I	0.32082 + 1.94642I	2.41639 - 0.58561I
b = 0.028431 + 0.644371I		
u = 0.141484 - 0.739668I		
a = -0.568678 - 0.319831I	0.32082 - 6.85525I	2.41639 + 6.41156I
b = -0.08989 + 1.48960I		
u = 0.141484 - 0.739668I		
a = 1.41403 - 0.59823I	-5.22264 - 3.98500I	-1.81281 + 7.34362I
b = -0.68925 - 1.35493I		
u = 0.141484 - 0.739668I		
a = 0.342864 - 0.158229I	-3.15066 - 2.45442I	-0.84678 + 2.91298I
b = -0.114649 - 1.239450I		
u = 0.141484 - 0.739668I		
a = -1.58794 + 0.45874I	-3.15066 - 2.45442I	-0.84678 + 2.91298I
b = 0.068527 + 0.275993I		
u = 0.141484 - 0.739668I		
a = 1.07862 - 1.32292I	-5.22264 - 0.92384I	-1.81281 - 1.51767I
b = -0.402567 - 1.251020I		
u = 0.141484 - 0.739668I		
a = -1.53120 + 0.83714I	-5.22264 - 0.92384I	-1.81281 - 1.51767I
b = 0.825911 + 0.984993I		
u = 0.141484 - 0.739668I		
a = 1.96522 - 0.25438I	0.32082 - 6.85525I	2.41639 + 6.41156I
b = 0.317028 - 0.375382I		
u = 0.141484 - 0.739668I		
a = -1.59520 + 1.23697I	-5.22264 - 3.98500I	-1.81281 + 7.34362I
b = 0.242430 + 1.130550I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.172470 + 0.500383I		
a = 0.792012 + 0.503592I	-2.66037 - 2.68409I	-0.83249 + 2.41476I
b = 0.162057 + 0.387615I		
u = 1.172470 + 0.500383I		
a = 0.945073 + 0.712591I	-6.13185 - 7.08493I	-4.09566 + 5.91335I
b = 1.26045 + 1.74402I		
u = 1.172470 + 0.500383I		
a = -0.80474 - 1.26876I	-2.66037 - 11.48580I	-0.83249 + 9.41193I
b = -0.98004 - 2.30622I		
u = 1.172470 + 0.500383I		
a = -0.236274 - 0.229760I	-2.66037 - 2.68409I	-0.83249 + 2.41476I
b = -0.676624 - 0.986758I		
u = 1.172470 + 0.500383I		
a = -1.44640 - 0.87018I	-6.13185 - 7.08493I	-4.09566 + 5.91335I
b = -0.75150 - 1.30839I		
u = 1.172470 + 0.500383I		
a = 1.41720 + 1.36214I	-2.66037 - 11.48580I	-0.83249 + 9.41193I
b = 0.30867 + 1.89027I		
u = 1.172470 + 0.500383I		
a = 2.12983 + 0.34060I	-8.20383 - 5.55435I	-5.06169 + 1.48270I
b = 2.25954 + 1.80577I		
u = 1.172470 + 0.500383I		
a = 2.07246 + 0.88521I	-8.20383 - 8.61551I	-5.06169 + 10.34400I
b = 2.31320 + 1.95595I		
u = 1.172470 + 0.500383I		
a = -2.18626 - 0.60710I	-8.20383 - 5.55435I	-5.06169 + 1.48270I
b = -2.32674 - 1.46507I		
u = 1.172470 + 0.500383I		
a = -2.27121 - 0.69892I	-8.20383 - 8.61551I	-5.06169 + 10.34400I
b = -1.98696 - 2.07491I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.172470 - 0.500383I		
a = 0.792012 - 0.503592I	-2.66037 + 2.68409I	-0.83249 - 2.41476I
b = 0.162057 - 0.387615I		
u = 1.172470 - 0.500383I		
a = 0.945073 - 0.712591I	-6.13185 + 7.08493I	-4.09566 - 5.91335I
b = 1.26045 - 1.74402I		
u = 1.172470 - 0.500383I		
a = -0.80474 + 1.26876I	-2.66037 + 11.48580I	-0.83249 - 9.41193I
b = -0.98004 + 2.30622I		
u = 1.172470 - 0.500383I		
a = -0.236274 + 0.229760I	-2.66037 + 2.68409I	-0.83249 - 2.41476I
b = -0.676624 + 0.986758I		
u = 1.172470 - 0.500383I		
a = -1.44640 + 0.87018I	-6.13185 + 7.08493I	-4.09566 - 5.91335I
b = -0.75150 + 1.30839I		
u = 1.172470 - 0.500383I		
a = 1.41720 - 1.36214I	-2.66037 + 11.48580I	-0.83249 - 9.41193I
b = 0.30867 - 1.89027I		
u = 1.172470 - 0.500383I		
a = 2.12983 - 0.34060I	-8.20383 + 5.55435I	-5.06169 - 1.48270I
b = 2.25954 - 1.80577I		
u = 1.172470 - 0.500383I		
a = 2.07246 - 0.88521I	-8.20383 + 8.61551I	-5.06169 - 10.34400I
b = 2.31320 - 1.95595I		
u = 1.172470 - 0.500383I		
a = -2.18626 + 0.60710I	-8.20383 + 5.55435I	-5.06169 - 1.48270I
b = -2.32674 + 1.46507I		
u = 1.172470 - 0.500383I		
a = -2.27121 + 0.69892I	-8.20383 + 8.61551I	-5.06169 - 10.34400I
b = -1.98696 + 2.07491I		

$$I_3^u = \langle -2u^{27} - u^{26} + \dots + b - 6, \ 6u^{27} - 2u^{26} + \dots + a - 4, \ u^{28} - 8u^{26} + \dots - 5u^2 + 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -6u^{27} + 2u^{26} + \dots + 17u + 4 \\ 2u^{27} + u^{26} + \dots + 4u + 6 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 2u^{27} + 3u^{26} + \dots - 4u - 8 \\ 3u^{27} + u^{26} + \dots - 9u - 2 \end{pmatrix}$$

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

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

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

$$a_{11} = \begin{pmatrix} -2u^{27} + u^{26} + \dots + 9u + 5 \\ 6u^{27} - 42u^{25} + \dots - 4u + 7 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 2u^{27} + 3u^{26} + \dots + 4u - 7 \\ 3u^{27} + u^{26} + \dots + 3u^{2} - 9u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -4u^{27} - 2u^{26} + \dots + 12u + 8 \\ -7u^{27} + 3u^{26} + \dots + 17u - 1 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -5u^{27} - u^{26} + \dots + 5u + 1 \\ 3u^{27} - 4u^{26} + \dots + 8u + 9 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= 15u^{27} + 19u^{26} - 106u^{25} - 149u^{24} + 360u^{23} + 584u^{22} - 700u^{21} - 1413u^{20} + 765u^{19} + 2322u^{18} - 199u^{17} - 2661u^{16} - 746u^{15} + 2165u^{14} + 1354u^{13} - 1227u^{12} - 1167u^{11} + 506u^{10} + 538u^9 - 188u^8 - 29u^7 + 148u^6 - 106u^5 - 123u^4 + 66u^3 + 77u^2 - 14u - 14$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{28} - 16u^{27} + \dots - 10u + 1$
c_2	$u^{28} - 8u^{26} + \dots - 5u^2 + 1$
c_3, c_{10}	$u^{28} + 14u^{26} + \dots + u + 1$
c_4, c_{12}	$u^{28} + 2u^{26} + \dots + 3u + 1$
c_5, c_9	$u^{28} + 14u^{26} + \dots - u + 1$
c_6	$u^{28} - 8u^{26} + \dots - 5u^2 + 1$
	$u^{28} - 3u^{27} + \dots - 9u^2 + 1$
c ₈	$u^{28} - 7u^{27} + \dots - 3u + 1$
c_{11}	$u^{28} + 7u^{27} + \dots + 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{28} + 32y^{26} + \dots - 6y + 1$
c_2, c_6	$y^{28} - 16y^{27} + \dots - 10y + 1$
c_3, c_5, c_9 c_{10}	$y^{28} + 28y^{27} + \dots + 17y + 1$
c_4, c_{12}	$y^{28} + 4y^{27} + \dots + y + 1$
c_7	$y^{28} + 13y^{27} + \dots - 18y + 1$
c_8, c_{11}	$y^{28} + 21y^{27} + \dots + 21y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.909624 + 0.399283I		
a = -1.35681 + 1.21818I	-3.24975 - 1.66982I	-4.52503 + 3.50835I
b = -1.72058 + 0.56633I		
u = 0.909624 - 0.399283I		
a = -1.35681 - 1.21818I	-3.24975 + 1.66982I	-4.52503 - 3.50835I
b = -1.72058 - 0.56633I		
u = -0.381271 + 0.904184I		
a = 0.465172 - 0.049713I	0.60188 + 2.20318I	19.4970 - 11.9673I
b = -0.132407 + 0.439556I		
u = -0.381271 - 0.904184I		
a = 0.465172 + 0.049713I	0.60188 - 2.20318I	19.4970 + 11.9673I
b = -0.132407 - 0.439556I		
u = 1.024400 + 0.383160I		
a = 0.61006 - 1.65384I	-0.83437 + 2.19030I	0.51959 - 1.67301I
b = 1.25863 - 1.46043I		
u = 1.024400 - 0.383160I		
a = 0.61006 + 1.65384I	-0.83437 - 2.19030I	0.51959 + 1.67301I
b = 1.25863 + 1.46043I		
u = 0.716573 + 0.538278I		
a = -1.14819 + 1.73127I	-3.06915 - 2.17150I	-0.43947 + 3.55816I
b = -1.75466 + 0.62254I		
u = 0.716573 - 0.538278I		
a = -1.14819 - 1.73127I	-3.06915 + 2.17150I	-0.43947 - 3.55816I
b = -1.75466 - 0.62254I		
u = -1.113090 + 0.299686I		
a = 0.273509 - 0.536051I	-7.04737 + 3.15969I	-2.79688 - 5.16503I
b = -0.143794 + 0.678642I		
u = -1.113090 - 0.299686I		
a = 0.273509 + 0.536051I	-7.04737 - 3.15969I	-2.79688 + 5.16503I
b = -0.143794 - 0.678642I		

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.052520 + 0.535447I		
a = 0.019621 + 0.244212I	0.29369 + 8.62276I	-1.09109 - 8.86228I
b = -0.151414 - 0.246532I		
u = -1.052520 - 0.535447I		
a = 0.019621 - 0.244212I	0.29369 - 8.62276I	-1.09109 + 8.86228I
b = -0.151414 + 0.246532I		
u = -1.155670 + 0.401281I		
a = -0.434187 + 0.437982I	-8.44495 + 0.86552I	-1.99597 - 3.31819I
b = 0.326024 - 0.680396I		
u = -1.155670 - 0.401281I		
a = -0.434187 - 0.437982I	-8.44495 - 0.86552I	-1.99597 + 3.31819I
b = 0.326024 + 0.680396I		
u = -1.054750 + 0.632515I		
a = 0.202172 - 0.143686I	-1.26603 + 3.39888I	3.29789 - 7.55521I
b = -0.122357 + 0.279430I		
u = -1.054750 - 0.632515I		
a = 0.202172 + 0.143686I	-1.26603 - 3.39888I	3.29789 + 7.55521I
b = -0.122357 - 0.279430I		
u = -0.500430 + 0.579905I		
a = -0.501513 - 0.182933I	1.96468 - 4.13139I	3.07949 + 3.75164I
b = 0.357056 - 0.199285I		
u = -0.500430 - 0.579905I		
a = -0.501513 + 0.182933I	1.96468 + 4.13139I	3.07949 - 3.75164I
b = 0.357056 + 0.199285I		
u = 0.719513 + 0.210138I		
a = 3.01137 - 1.26584I	0.49510 - 4.96252I	5.23060 + 9.28386I
b = 2.43272 - 0.27799I		
u = 0.719513 - 0.210138I		
a = 3.01137 + 1.26584I	0.49510 + 4.96252I	5.23060 - 9.28386I
b = 2.43272 + 0.27799I		

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.158930 + 0.497770I		
a = 2.26263 + 0.62418I	-7.74631 - 7.32565I	-1.47863 + 4.71350I
b = 2.31152 + 1.84965I		
u = 1.158930 - 0.497770I		
a = 2.26263 - 0.62418I	-7.74631 + 7.32565I	-1.47863 - 4.71350I
b = 2.31152 - 1.84965I		
u = -0.721884 + 0.081239I		
a = 0.293190 - 1.240550I	-5.21361 - 1.26266I	6.29853 - 1.62701I
b = -0.110868 + 0.919351I		
u = -0.721884 - 0.081239I		
a = 0.293190 + 1.240550I	-5.21361 + 1.26266I	6.29853 + 1.62701I
b = -0.110868 - 0.919351I		
u = 0.155553 + 0.691734I		
a = -1.57108 - 1.11636I	-4.88233 + 2.80056I	1.208918 - 0.721960I
b = 0.527840 - 1.260420I		
u = 0.155553 - 0.691734I		
a = -1.57108 + 1.11636I	-4.88233 - 2.80056I	1.208918 + 0.721960I
b = 0.527840 + 1.260420I		
u = 1.295040 + 0.446899I		
a = -1.125940 - 0.851291I	-4.36975 - 6.65598I	-14.8049 + 6.5840I
b = -1.07770 - 1.60564I		
u = 1.295040 - 0.446899I		
a = -1.125940 + 0.851291I	-4.36975 + 6.65598I	-14.8049 - 6.5840I
b = -1.07770 + 1.60564I		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^9 + 5u^8 + 12u^7 + 15u^6 + 9u^5 - u^4 - 4u^3 - 2u^2 + u + 1)^{10}$ $\cdot (u^{28} - 16u^{27} + \dots - 10u + 1)(u^{42} + 21u^{41} + \dots - 256u + 1024)$
c_2	$(u^{9} + u^{8} - 2u^{7} - 3u^{6} + u^{5} + 3u^{4} + 2u^{3} - u - 1)^{10}$ $\cdot (u^{28} - 8u^{26} + \dots - 5u^{2} + 1)(u^{42} - 11u^{41} + \dots - 336u + 32)$
c_3, c_{10}	$(u^{28} + 14u^{26} + \dots + u + 1)(u^{42} + 17u^{40} + \dots - u + 1)$ $\cdot (u^{90} + u^{89} + \dots + 7431322u + 1174423)$
c_4, c_{12}	$(u^{28} + 2u^{26} + \dots + 3u + 1)(u^{42} - 3u^{40} + \dots + u + 1)$ $\cdot (u^{90} - 5u^{89} + \dots + 46u + 7)$
c_5,c_9	$(u^{28} + 14u^{26} + \dots - u + 1)(u^{42} + 17u^{40} + \dots - u + 1)$ $\cdot (u^{90} + u^{89} + \dots + 7431322u + 1174423)$
c_6	$(u^9 + u^8 - 2u^7 - 3u^6 + u^5 + 3u^4 + 2u^3 - u - 1)^{10}$ $\cdot (u^{28} - 8u^{26} + \dots - 5u^2 + 1)(u^{42} - 11u^{41} + \dots - 336u + 32)$
c_7	$(u^9 + 3u^8 + 8u^7 + 13u^6 + 17u^5 + 17u^4 + 12u^3 + 6u^2 + u - 1)^{10}$ $\cdot (u^{28} - 3u^{27} + \dots - 9u^2 + 1)(u^{42} - 30u^{41} + \dots - 6179216u + 430496)$
<i>c</i> ₈	$((u^5 + u^4 + 2u^3 + u^2 + u + 1)^{18})(u^{28} - 7u^{27} + \dots - 3u + 1)$ $\cdot (u^{42} - 24u^{41} + \dots - 10752u + 512)$
c_{11}	$((u^5 + u^4 + 2u^3 + u^2 + u + 1)^{18})(u^{28} + 7u^{27} + \dots + 3u + 1)$ $\cdot (u^{42} - 24u^{41} + \dots - 10752u + 512)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^9 - y^8 + 12y^7 - 7y^6 + 37y^5 + y^4 - 10y^2 + 5y - 1)^{10}$ $\cdot (y^{28} + 32y^{26} + \dots - 6y + 1)(y^{42} - y^{41} + \dots + 9240576y + 1048576)$
c_{2}, c_{6}	$(y^9 - 5y^8 + 12y^7 - 15y^6 + 9y^5 + y^4 - 4y^3 + 2y^2 + y - 1)^{10}$ $\cdot (y^{28} - 16y^{27} + \dots - 10y + 1)(y^{42} - 21y^{41} + \dots + 256y + 1024)$
c_3, c_5, c_9 c_{10}	$(y^{28} + 28y^{27} + \dots + 17y + 1)(y^{42} + 34y^{41} + \dots - 7y + 1)$ $\cdot (y^{90} + 75y^{89} + \dots + 22867447038168y + 1379269382929)$
c_4, c_{12}	$(y^{28} + 4y^{27} + \dots + y + 1)(y^{42} - 6y^{41} + \dots - 27y + 1)$ $\cdot (y^{90} + 15y^{89} + \dots + 3680y + 49)$
c_7	$(y^9 + 7y^8 + 20y^7 + 25y^6 + 5y^5 - 15y^4 + 22y^2 + 13y - 1)^{10}$ $\cdot (y^{28} + 13y^{27} + \dots - 18y + 1)$ $\cdot (y^{42} + 20y^{41} + \dots + 1352203186432y + 185326806016)$
c_{8}, c_{11}	$((y^5 + 3y^4 + 4y^3 + y^2 - y - 1)^{18})(y^{28} + 21y^{27} + \dots + 21y + 1)$ $\cdot (y^{42} + 24y^{41} + \dots + 262144y + 262144)$