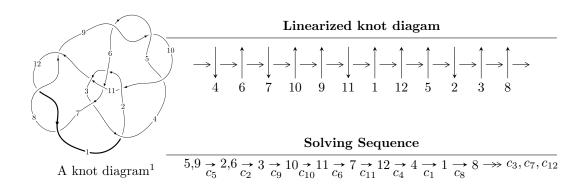
$12a_{0883} (K12a_{0883})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 161211550u^{26} + 163067087u^{25} + \dots + 168567233b + 184311963, \\ &- 64532319u^{26} - 105037379u^{25} + \dots + 168567233a - 400814896, \ u^{27} + u^{26} + \dots + 2u - 1 \rangle \\ I_2^u &= \langle 8.05343 \times 10^{231}u^{97} - 2.98534 \times 10^{231}u^{96} + \dots + 7.84596 \times 10^{231}b - 9.54856 \times 10^{232}, \\ &- 1.36459 \times 10^{233}u^{97} - 1.17790 \times 10^{233}u^{96} + \dots + 7.84596 \times 10^{231}a - 1.42631 \times 10^{234}, \ u^{98} - u^{97} + \dots - 36u \rangle \\ I_3^u &= \langle u^4 + u^3 + 2u^2 + b + 2u, \ -u^6 - 2u^4 - u^3 + u^2 + a - u + 1, \ u^7 + u^6 + 4u^5 + 5u^4 + 5u^3 + 6u^2 + 2u + 1 \rangle \\ I_4^u &= \langle 4u^{25} - 11u^{24} + \dots + b - 3, \ 5u^{25} - 13u^{24} + \dots + a + 4, \ u^{26} - 2u^{25} + \dots - 2u + 1 \rangle \end{split}$$

* 4 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 158 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.

$$I. \\ I_1^u = \langle 1.61 \times 10^8 u^{26} + 1.63 \times 10^8 u^{25} + \dots + 1.69 \times 10^8 b + 1.84 \times 10^8, \ -6.45 \times 10^7 u^{26} - 1.05 \times 10^8 u^{25} + \dots + 1.69 \times 10^8 a - 4.01 \times 10^8, \ u^{27} + u^{26} + \dots + 2u - 1 \rangle$$

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

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.382828u^{26} + 0.623119u^{25} + \dots + 2.47957u + 2.37777 \\ -0.956364u^{26} - 0.967371u^{25} + \dots - 0.798674u - 1.09340 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} 0.110178u^{26} + 0.0591229u^{25} + \dots + 1.58315u + 1.52466 \\ -0.538924u^{26} - 0.745833u^{25} + \dots - 1.10871u - 0.802058 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -0.959060u^{26} - 1.36051u^{25} + \dots + 0.0254923u - 2.73531 \\ -0.00114729u^{26} + 0.449549u^{25} + \dots + 1.51778u + 0.626626 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.576586u^{26} + 1.01727u^{25} + \dots + 1.09757u + 0.898510 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.469768u^{26} + 0.828129u^{25} + \dots + 1.88993u + 0.768115 \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 0.428742u^{26} - 0.646967u^{25} + \dots + 1.64298u - 1.12648 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.358361u^{26} + 0.317336u^{25} + \dots + 0.828580u + 0.469768 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$-\frac{314978218}{168567233}u^{26} - \frac{605025497}{168567233}u^{25} + \dots - \frac{1917677278}{168567233}u + \frac{586286315}{168567233}u^{26} + \dots$$

Crossings	u-Polynomials at each crossing
c_1	$u^{27} - 7u^{26} + \dots + 176u - 16$
c_2, c_{11}	$u^{27} + u^{26} + \dots - 3u + 1$
c_3, c_{10}	$u^{27} + u^{26} + \dots + 3u + 1$
c_4, c_5, c_7 c_8, c_9, c_{12}	$u^{27} - u^{26} + \dots + 2u + 1$
<i>c</i> ₆	$u^{27} - 16u^{26} + \dots + 22u - 4$

Crossings	Riley Polynomials at each crossing
c_1	$y^{27} - 5y^{26} + \dots + 5280y - 256$
c_2, c_{11}	$y^{27} - 7y^{26} + \dots + 27y - 1$
c_3, c_{10}	$y^{27} - 7y^{26} + \dots + 17y - 1$
$c_4, c_5, c_7 \\ c_8, c_9, c_{12}$	$y^{27} + 25y^{26} + \dots + 18y - 1$
<i>C</i> ₆	$y^{27} - 10y^{26} + \dots + 492y - 16$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.070166 + 0.997411I		
a = 0.050375 + 0.136338I	-0.70818 + 3.60837I	2.50627 - 4.79457I
b = 1.106230 + 0.535575I		
u = 0.070166 - 0.997411I		
a = 0.050375 - 0.136338I	-0.70818 - 3.60837I	2.50627 + 4.79457I
b = 1.106230 - 0.535575I		
u = -0.995972 + 0.202368I		
a = -0.0990140 + 0.0471163I	-0.0498204 + 0.0658137I	13.3792 - 20.3584I
b = 0.473624 + 0.134565I		
u = -0.995972 - 0.202368I		
a = -0.0990140 - 0.0471163I	-0.0498204 - 0.0658137I	13.3792 + 20.3584I
b = 0.473624 - 0.134565I		
u = 0.791226 + 0.513863I		
a = -0.736086 + 0.718981I	-1.14567 + 9.89138I	2.32394 - 9.56251I
b = -0.141477 - 0.624312I		
u = 0.791226 - 0.513863I		
a = -0.736086 - 0.718981I	-1.14567 - 9.89138I	2.32394 + 9.56251I
b = -0.141477 + 0.624312I		
u = -0.542866 + 0.539927I		
a = 0.390658 - 0.702555I	1.32847 - 1.67905I	10.52150 + 4.30869I
b = -0.0570518 + 0.0874559I		
u = -0.542866 - 0.539927I		
a = 0.390658 + 0.702555I	1.32847 + 1.67905I	10.52150 - 4.30869I
b = -0.0570518 - 0.0874559I		
u = -0.122477 + 1.262950I		
a = -1.31674 - 1.34075I	-9.69201 - 3.22381I	-6.38040 + 1.87892I
b = -1.11217 - 2.28394I		
u = -0.122477 - 1.262950I		
a = -1.31674 + 1.34075I	-9.69201 + 3.22381I	-6.38040 - 1.87892I
b = -1.11217 + 2.28394I		

Solu	itions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.23	0598 + 1.267870I		
a = -0.39	953 + 1.81101I	-7.30514 + 6.01759I	-0.32733 - 7.30981I
b = -0.47	291 + 2.86023I		
u = 0.23	0598 - 1.267870I		
a = -0.39	953 - 1.81101I	-7.30514 - 6.01759I	-0.32733 + 7.30981I
b = -0.47	291 - 2.86023I		
u = 0.20	4690 + 1.330900I		
a = -0.26	5598 + 1.62179I	-7.82612 + 5.05552I	-1.17987 - 2.39455I
	7881 + 1.96936I		
u = 0.20	4690 - 1.330900I		
a = -0.26	5598 - 1.62179I	-7.82612 - 5.05552I	-1.17987 + 2.39455I
	7881 - 1.96936I		
u = -0.17	9338 + 1.344090I		
a = -0.04	177 - 2.74708I	-8.31053 - 8.16537I	-3.33517 + 11.01444I
	158 - 3.28794I		
	9338 - 1.344090I		
a = -0.04	1177 + 2.74708I	-8.31053 + 8.16537I	-3.33517 - 11.01444I
	158 + 3.28794I		
u = -0.60			
a = 2.07	7379	0.515822	11.7560
b = 0.17			
	958 + 1.42133I		
	4503 + 0.398347I	-6.81655 + 2.85614I	-2.29662 - 2.94714I
	5482 + 0.318924I		
	958 - 1.42133I		
	4503 - 0.398347I	-6.81655 - 2.85614I	-2.29662 + 2.94714I
	5482 - 0.318924I		
u = -0.47			10.0400
	2334	0.921050	10.8530
b = 0.32	21318		

u = 0.375751 + 0.179645I		Cusp shape
a = 0.80850 - 1.25731I	1.25767 + 3.71987I	13.1792 - 10.4060I
b = 0.727471 + 0.972773I		
u = 0.375751 - 0.179645I		
a = 0.80850 + 1.25731I	1.25767 - 3.71987I	13.1792 + 10.4060I
b = 0.727471 - 0.972773I		
u = -0.32805 + 1.55024I		
a = 0.08115 + 1.75485I	-14.5174 - 18.3439I	-3.23925 + 8.58445I
b = -0.33517 + 2.81280I		
u = -0.32805 - 1.55024I		
a = 0.08115 - 1.75485I	-14.5174 + 18.3439I	-3.23925 - 8.58445I
b = -0.33517 - 2.81280I		
u = 0.35424 + 1.56608I		
a = 0.129600 - 1.020350I	-13.3669 + 10.0927I	-3.30444 - 7.62979I
b = -0.22137 - 1.77783I		
u = 0.35424 - 1.56608I		
a = 0.129600 + 1.020350I	-13.3669 - 10.0927I	-3.30444 + 7.62979I
b = -0.22137 + 1.77783I		
u = 0.321408		
a = 2.29153	-2.01710	-4.30310
b = -0.761575		

II.
$$I_2^u = \langle 8.05 \times 10^{231} u^{97} - 2.99 \times 10^{231} u^{96} + \dots + 7.85 \times 10^{231} b - 9.55 \times 10^{232}, \ 1.36 \times 10^{233} u^{97} - 1.18 \times 10^{233} u^{96} + \dots + 7.85 \times 10^{231} a - 1.43 \times 10^{234}, \ u^{98} - u^{97} + \dots - 36u + 1 \rangle$$

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

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -17.3923u^{97} + 15.0129u^{96} + \cdots - 4433.65u + 181.789 \\ -1.02644u^{97} + 0.380494u^{96} + \cdots - 235.466u + 12.1700 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} -17.9778u^{97} + 15.8292u^{96} + \cdots - 4737.38u + 196.338 \\ -0.273211u^{97} + 0.251929u^{96} + \cdots - 244.360u + 12.4008 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -9.95056u^{97} + 8.64388u^{96} + \cdots - 2431.59u + 104.303 \\ 0.850940u^{97} - 0.650011u^{96} + \cdots + 280.898u - 11.5019 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -4.56522u^{97} + 3.03576u^{96} + \cdots - 694.079u + 32.8371 \\ 1.99051u^{97} - 2.57908u^{96} + \cdots - 694.079u + 32.8371 \\ 1.99051u^{97} - 2.57908u^{96} + \cdots - 7216.77u + 308.025 \\ -1.43913u^{97} + 1.65677u^{96} + \cdots - 365.233u + 18.0341 \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -17.4547u^{97} + 15.3237u^{96} + \cdots - 4630.14u + 192.443 \\ -0.306071u^{97} + 0.126649u^{96} + \cdots - 242.535u + 12.3881 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -2.91621u^{97} + 2.48251u^{96} + \cdots - 1005.31u + 66.4486 \\ 4.29285u^{97} - 4.18123u^{96} + \cdots + 1267.97u - 52.9233 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-6.62974u^{97} + 5.53191u^{96} + \cdots 803.454u + 33.3318$

Crossings	u-Polynomials at each crossing
c_1	$ \left(u^{49} + 8u^{48} + \dots - u + 139 \right)^2 $
c_2, c_{11}	$u^{98} - u^{97} + \dots + 78991u + 5641$
c_3, c_{10}	$u^{98} - 12u^{96} + \dots - 2731098u + 1190927$
c_4, c_5, c_7 c_8, c_9, c_{12}	$u^{98} + u^{97} + \dots + 36u + 1$
c_6	$(u^{49} + 6u^{48} + \dots + 7u + 1)^2$

Crossings	Riley Polynomials at each crossing
c_1	$(y^{49} - 30y^{48} + \dots - 378913y - 19321)^2$
c_2,c_{11}	$y^{98} + 23y^{97} + \dots + 672079733y + 31820881$
c_3,c_{10}	$y^{98} - 24y^{97} + \dots - 54241979206882y + 1418307119329$
c_4, c_5, c_7 c_8, c_9, c_{12}	$y^{98} + 101y^{97} + \dots - 326y + 1$
<i>C</i> ₆	$(y^{49} - 6y^{48} + \dots + 25y - 1)^2$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.601265 + 0.799530I		
a = 0.371144 + 0.018717I	0.89188 - 2.50997I	0
b = 0.411619 - 0.292634I		
u = -0.601265 - 0.799530I		
a = 0.371144 - 0.018717I	0.89188 + 2.50997I	0
b = 0.411619 + 0.292634I		
u = 0.742965 + 0.599497I		
a = -0.341644 - 0.232431I	-1.41187 - 4.73118I	0
b = 0.575289 - 0.479550I		
u = 0.742965 - 0.599497I		
a = -0.341644 + 0.232431I	-1.41187 + 4.73118I	0
b = 0.575289 + 0.479550I		
u = -0.775758 + 0.551464I		
a = 0.713884 + 0.158341I	1.05292 - 2.70150I	0
b = 0.345135 - 0.578530I		
u = -0.775758 - 0.551464I		
a = 0.713884 - 0.158341I	1.05292 + 2.70150I	0
b = 0.345135 + 0.578530I		
u = -0.913794 + 0.518684I		
a = -0.773466 - 0.493343I	-7.8103 - 13.8110I	0
b = -0.107817 + 0.717427I		
u = -0.913794 - 0.518684I		
a = -0.773466 + 0.493343I	-7.8103 + 13.8110I	0
b = -0.107817 - 0.717427I		
u = 0.838372 + 0.214613I		
a = 1.160930 - 0.145018I	-2.76982 + 1.97446I	0
b = 0.440949 + 0.575531I		
u = 0.838372 - 0.214613I		
a = 1.160930 + 0.145018I	-2.76982 - 1.97446I	0
b = 0.440949 - 0.575531I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.612109 + 0.604182I		
a = -0.362407 - 1.000320I	-1.41187 - 4.73118I	0
b = -0.111421 + 0.461219I		
u = -0.612109 - 0.604182I		
a = -0.362407 + 1.000320I	-1.41187 + 4.73118I	0
b = -0.111421 - 0.461219I		
u = -0.254531 + 1.112700I		
a = 0.877864 + 0.438971I	-7.07475 + 2.20435I	0
b = -0.251233 + 0.146892I		
u = -0.254531 - 1.112700I		
a = 0.877864 - 0.438971I	-7.07475 - 2.20435I	0
b = -0.251233 - 0.146892I		
u = 1.049150 + 0.468661I		
a = -0.314037 + 0.177739I	-6.69520 + 5.05617I	0
b = 0.224808 - 0.342256I		
u = 1.049150 - 0.468661I		
a = -0.314037 - 0.177739I	-6.69520 - 5.05617I	0
b = 0.224808 + 0.342256I		
u = -0.878034 + 0.748977I		
a = -0.428725 + 0.197953I	-8.41578 + 7.83198I	0
b = 0.477283 + 0.552534I		
u = -0.878034 - 0.748977I		
a = -0.428725 - 0.197953I	-8.41578 - 7.83198I	0
b = 0.477283 - 0.552534I		
u = 0.686233 + 0.942381I		
a = 0.000271 + 0.415794I	-8.38703 + 1.13960I	0
b = 0.175155 - 0.429780I		
u = 0.686233 - 0.942381I		
a = 0.000271 - 0.415794I	-8.38703 - 1.13960I	0
b = 0.175155 + 0.429780I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.766493 + 0.313170I		
a = 1.110710 + 0.164116I	-7.47312 + 0.52726I	0
b = -0.500160 - 0.031141I		
u = -0.766493 - 0.313170I		
a = 1.110710 - 0.164116I	-7.47312 - 0.52726I	0
b = -0.500160 + 0.031141I		
u = 0.213501 + 0.776484I		
a = -0.843665 + 0.799992I	-7.12629 + 5.71564I	0
b = -1.10714 + 1.71994I		
u = 0.213501 - 0.776484I		
a = -0.843665 - 0.799992I	-7.12629 - 5.71564I	0
b = -1.10714 - 1.71994I		
u = 0.601355 + 1.050520I		
a = 0.555692 + 0.226539I	-5.17927 + 2.97176I	0
b = -0.022086 + 0.335554I		
u = 0.601355 - 1.050520I		
a = 0.555692 - 0.226539I	-5.17927 - 2.97176I	0
b = -0.022086 - 0.335554I		
u = 1.000720 + 0.695820I		
a = 0.745496 + 0.056805I	-3.76883 + 3.36908I	0
b = 0.218609 + 0.616622I		
u = 1.000720 - 0.695820I		
a = 0.745496 - 0.056805I	-3.76883 - 3.36908I	0
b = 0.218609 - 0.616622I		
u = -0.558069 + 0.522855I		
a = -0.122912 + 1.050990I	-8.37472 - 4.64087I	0
b = -0.403275 - 0.944836I		
u = -0.558069 - 0.522855I		
a = -0.122912 - 1.050990I	-8.37472 + 4.64087I	0
b = -0.403275 + 0.944836I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.013440 + 1.261000I		
a = 0.734942 - 0.472678I	-1.83648 - 2.54008I	0
b = -0.179286 - 0.269085I		
u = 0.013440 - 1.261000I		
a = 0.734942 + 0.472678I	-1.83648 + 2.54008I	0
b = -0.179286 + 0.269085I		
u = -0.093446 + 1.291680I		
a = -0.337075 - 0.874524I	-3.00552 - 2.00178I	0
b = -1.03246 - 1.19486I		
u = -0.093446 - 1.291680I		
a = -0.337075 + 0.874524I	-3.00552 + 2.00178I	0
b = -1.03246 + 1.19486I		
u = 0.640464 + 0.266462I		
a = 1.066130 + 0.218861I	-3.00552 + 2.00178I	0
b = 0.399089 + 0.595313I		
u = 0.640464 - 0.266462I		
a = 1.066130 - 0.218861I	-3.00552 - 2.00178I	0
b = 0.399089 - 0.595313I		
u = -0.024509 + 1.318700I		
a = -0.68071 - 1.58708I	-2.76982 - 1.97446I	0
b = -1.29802 - 2.61295I		
u = -0.024509 - 1.318700I		
a = -0.68071 + 1.58708I	-2.76982 + 1.97446I	0
b = -1.29802 + 2.61295I		
u = -0.327819 + 0.583087I		
a = -0.165009 - 0.143366I	-1.62426 - 2.89139I	-1.83614 + 9.00098I
b = -0.699085 - 1.112450I		
u = -0.327819 - 0.583087I		
a = -0.165009 + 0.143366I	-1.62426 + 2.89139I	-1.83614 - 9.00098I
b = -0.699085 + 1.112450I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.551909 + 0.314734I		
a = 0.89110 - 1.25572I	-1.62426 + 2.89139I	-1.83614 - 9.00098I
b = -0.087561 + 0.634422I		
u = 0.551909 - 0.314734I		
a = 0.89110 + 1.25572I	-1.62426 - 2.89139I	-1.83614 + 9.00098I
b = -0.087561 - 0.634422I		
u = -0.609151 + 0.069906I		
a = 1.100990 + 0.526461I	-3.88143 - 5.43641I	2.38120 + 7.54528I
b = 0.499891 - 1.265130I		
u = -0.609151 - 0.069906I		
a = 1.100990 - 0.526461I	-3.88143 + 5.43641I	2.38120 - 7.54528I
b = 0.499891 + 1.265130I		
u = 0.035210 + 1.406650I		
a = 0.952310 - 0.095611I	-3.76883 + 3.36908I	0
b = 2.78836 - 0.18377I		
u = 0.035210 - 1.406650I		
a = 0.952310 + 0.095611I	-3.76883 - 3.36908I	0
b = 2.78836 + 0.18377I		
u = 0.109284 + 1.405400I		
a = 0.54725 + 2.33836I	-3.88143 + 5.43641I	0
b = 0.80233 + 2.90599I		
u = 0.109284 - 1.405400I		
a = 0.54725 - 2.33836I	-3.88143 - 5.43641I	0
b = 0.80233 - 2.90599I		
u = 0.24099 + 1.39589I		
a = -0.785127 + 1.132930I	-6.98631 + 2.75445I	0
b = -0.85392 + 2.05396I		
u = 0.24099 - 1.39589I		
a = -0.785127 - 1.132930I	-6.98631 - 2.75445I	0
b = -0.85392 - 2.05396I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.21579 + 1.40896I		
a = -0.23652 + 1.97755I	-7.12629 + 5.71564I	0
b = 0.11853 + 3.12136I		
u = 0.21579 - 1.40896I		
a = -0.23652 - 1.97755I	-7.12629 - 5.71564I	0
b = 0.11853 - 3.12136I		
u = -0.05162 + 1.44380I		
a = -0.46405 + 1.39064I	-5.17927 - 2.97176I	0
b = -1.01450 + 2.31250I		
u = -0.05162 - 1.44380I		
a = -0.46405 - 1.39064I	-5.17927 + 2.97176I	0
b = -1.01450 - 2.31250I		
u = 0.01368 + 1.44520I		
a = -0.90811 + 1.44980I	-7.47312 + 0.52726I	0
b = -0.49977 + 2.20256I		
u = 0.01368 - 1.44520I		
a = -0.90811 - 1.44980I	-7.47312 - 0.52726I	0
b = -0.49977 - 2.20256I		
u = 0.00842 + 1.44698I		
a = 1.00203 - 1.72294I	-7.07475 - 2.20435I	0
b = 1.09995 - 2.26368I		
u = 0.00842 - 1.44698I		
a = 1.00203 + 1.72294I	-7.07475 + 2.20435I	0
b = 1.09995 + 2.26368I		
u = -0.11004 + 1.45882I		
a = 0.686718 + 0.373750I	-11.44370 - 8.12756I	0
b = 2.28806 + 0.72915I		
u = -0.11004 - 1.45882I		
a = 0.686718 - 0.373750I	-11.44370 + 8.12756I	0
b = 2.28806 - 0.72915I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.06406 + 1.49140I		
a = -0.82172 - 1.26604I	-13.26630 + 3.54268I	0
b = -0.25457 - 1.95023I		
u = 0.06406 - 1.49140I		
a = -0.82172 + 1.26604I	-13.26630 - 3.54268I	0
b = -0.25457 + 1.95023I		
u = -0.12213 + 1.49628I		
a = -1.02750 - 1.49115I	-8.37472 - 4.64087I	0
b = -0.75605 - 2.09017I		
u = -0.12213 - 1.49628I		
a = -1.02750 + 1.49115I	-8.37472 + 4.64087I	0
b = -0.75605 + 2.09017I		
u = -0.20185 + 1.49925I		
a = -0.11825 - 1.81705I	-14.9424 - 7.4727I	0
b = 0.71538 - 2.99125I		
u = -0.20185 - 1.49925I		
a = -0.11825 + 1.81705I	-14.9424 + 7.4727I	0
b = 0.71538 + 2.99125I		
u = -0.32036 + 1.48082I		
a = -0.597294 - 0.978220I	-13.26630 - 3.54268I	0
b = -0.77820 - 2.01419I		
u = -0.32036 - 1.48082I		
a = -0.597294 + 0.978220I	-13.26630 + 3.54268I	0
b = -0.77820 + 2.01419I		
u = -0.27276 + 1.51130I		
a = -0.00530 - 1.79034I	-5.57317 - 6.53299I	0
b = 0.18144 - 2.59266I		
u = -0.27276 - 1.51130I		
a = -0.00530 + 1.79034I	-5.57317 + 6.53299I	0
b = 0.18144 + 2.59266I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.21558 + 1.53803I		
a = -0.18613 + 1.73024I	-8.41578 - 7.83198I	0
b = -0.63034 + 2.83722I		
u = -0.21558 - 1.53803I		
a = -0.18613 - 1.73024I	-8.41578 + 7.83198I	0
b = -0.63034 - 2.83722I		
u = -0.320741 + 0.310919I		
a = -3.93867 + 0.92331I	-5.57317 - 6.53299I	2.95283 + 12.42721I
b = -0.666263 - 0.313444I		
u = -0.320741 - 0.310919I		
a = -3.93867 - 0.92331I	-5.57317 + 6.53299I	2.95283 - 12.42721I
b = -0.666263 + 0.313444I		
u = 0.27915 + 1.53150I		
a = -0.03303 - 1.78922I	-7.8103 + 13.8110I	0
b = -0.44692 - 2.87114I		
u = 0.27915 - 1.53150I		
a = -0.03303 + 1.78922I	-7.8103 - 13.8110I	0
b = -0.44692 + 2.87114I		
u = 0.25714 + 1.55253I		
a = 0.502633 - 0.791123I	-8.38703 - 1.13960I	0
b = 0.331108 - 1.370570I		
u = 0.25714 - 1.55253I		
a = 0.502633 + 0.791123I	-8.38703 + 1.13960I	0
b = 0.331108 + 1.370570I		
u = 0.332458 + 0.261172I		
a = 1.096740 - 0.884077I	-1.97135	-3.23135 + 0.I
b = -0.701887 + 0.263772I		
u = 0.332458 - 0.261172I		
a = 1.096740 + 0.884077I	-1.97135	-3.23135 + 0.I
b = -0.701887 - 0.263772I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.13850 + 1.57559I		
a = -1.16413 + 1.49269I	-14.9424 + 7.4727I	0
b = -0.85316 + 1.98749I		
u = 0.13850 - 1.57559I		
a = -1.16413 - 1.49269I	-14.9424 - 7.4727I	0
b = -0.85316 - 1.98749I		
u = 0.14088 + 1.60069I		
a = -0.23786 - 1.50667I	-16.8914 + 3.8329I	0
b = -0.71263 - 2.57130I		
u = 0.14088 - 1.60069I		
a = -0.23786 + 1.50667I	-16.8914 - 3.8329I	0
b = -0.71263 + 2.57130I		
u = -0.30166 + 1.58225I		
a = 0.109516 + 0.838009I	-6.69520 - 5.05617I	0
b = -0.23937 + 1.47556I		
u = -0.30166 - 1.58225I		
a = 0.109516 - 0.838009I	-6.69520 + 5.05617I	0
b = -0.23937 - 1.47556I		
u = 0.106252 + 0.354096I		
a = -2.48683 + 2.01384I	-6.98631 + 2.75445I	-5.88485 - 0.42614I
b = -1.371860 - 0.053216I		
u = 0.106252 - 0.354096I		
a = -2.48683 - 2.01384I	-6.98631 - 2.75445I	-5.88485 + 0.42614I
b = -1.371860 + 0.053216I		
u = 0.120663 + 0.346842I		
a = 3.16037 + 0.38450I	0.89188 - 2.50997I	5.62365 - 9.86280I
b = -0.296330 + 0.004024I		
u = 0.120663 - 0.346842I		
a = 3.16037 - 0.38450I	0.89188 + 2.50997I	5.62365 + 9.86280I
b = -0.296330 - 0.004024I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.30194 + 1.62391I		
a = 0.01529 + 1.62187I	-11.44370 + 8.12756I	0
b = 0.15988 + 2.41535I		
u = 0.30194 - 1.62391I		
a = 0.01529 - 1.62187I	-11.44370 - 8.12756I	0
b = 0.15988 - 2.41535I		
u = -0.17275 + 1.67346I		
a = 0.406277 + 1.126200I	-16.8914 + 3.8329I	0
b = 0.31705 + 1.83585I		
u = -0.17275 - 1.67346I		
a = 0.406277 - 1.126200I	-16.8914 - 3.8329I	0
b = 0.31705 - 1.83585I		
u = 0.224421 + 0.014031I		
a = -2.33880 - 6.47809I	1.05292 + 2.70150I	19.0928 - 8.4683I
b = -0.448282 + 0.138536I		
u = 0.224421 - 0.014031I		
a = -2.33880 + 6.47809I	1.05292 - 2.70150I	19.0928 + 8.4683I
b = -0.448282 - 0.138536I		
u = 0.0775099 + 0.0095965I		
a = -3.08930 - 8.74170I	-1.83648 - 2.54008I	7.90046 + 0.06865I
b = 1.25369 - 0.67794I		
u = 0.0775099 - 0.0095965I		
a = -3.08930 + 8.74170I	-1.83648 + 2.54008I	7.90046 - 0.06865I
b = 1.25369 + 0.67794I		

$$\begin{aligned} \text{III. } I_3^u = \langle u^4 + u^3 + 2u^2 + b + 2u, \ -u^6 - 2u^4 - u^3 + u^2 + a - u + 1, \ u^7 + u^6 + 4u^5 + 5u^4 + 5u^3 + 6u^2 + 2u + 1 \rangle \end{aligned}$$

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

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{3} = \begin{pmatrix} 0 \\ -u^{6} - 2u^{4} - u^{3} + u^{2} - u + 1 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} u \\ u^{3} + u^{2} + 2u + 1 \end{pmatrix}$$

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

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

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

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

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

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

Crossings	u-Polynomials at each crossing
c_1	$u^7 - 5u^5 + u^4 + 14u^3 - 9u^2 + 2u - 5$
c_2, c_{11}	$u^7 - u^6 - 2u^4 + 2u^3 + 4u^2 + 5u - 1$
c_3, c_{10}	$u^7 + u^6 + 2u^5 + 2u^3 - u^2 + u - 1$
c_4, c_5, c_7 c_8	$u^7 + u^6 + 4u^5 + 5u^4 + 5u^3 + 6u^2 + 2u + 1$
<i>c</i> ₆	$u^7 - u^6 - 3u^5 + 10u^4 - 12u^3 + 8u^2 - 3u + 1$
c_9, c_{12}	$u^7 - u^6 + 4u^5 - 5u^4 + 5u^3 - 6u^2 + 2u - 1$

Crossings	Riley Polynomials at each crossing	
c_1	$y^7 - 10y^6 + 53y^5 - 137y^4 + 194y^3 - 15y^2 - 86y - 25$	
c_2, c_{11}	$y^7 - y^6 + 14y^4 + 18y^3 + 33y - 1$	
c_3, c_{10}	$y^7 + 3y^6 + 8y^5 + 12y^4 + 10y^3 + 3y^2 - y - 1$	
$c_4, c_5, c_7 \\ c_8, c_9, c_{12}$	$y^7 + 7y^6 + 16y^5 + 7y^4 - 21y^3 - 26y^2 - 8y - 1$	
C ₆	$y^7 - 7y^6 + 5y^5 - 18y^4 + 4y^3 - 12y^2 - 7y - 1$	

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.10838		
a = 0.174033	-0.187807	-39.0540
b = -0.387834		
u = 0.030175 + 1.243640I		
a = 1.53616 - 0.67798I	-4.85229 - 2.21700I	2.43422 + 2.76940I
b = 0.787443 - 0.485292I		
u = 0.030175 - 1.243640I		
a = 1.53616 + 0.67798I	-4.85229 + 2.21700I	2.43422 - 2.76940I
b = 0.787443 + 0.485292I		
u = -0.153212 + 0.464251I		
a = -0.827817 + 0.635564I	0.66234 - 3.24612I	5.53982 + 5.24369I
b = 0.578417 - 0.631263I		
u = -0.153212 - 0.464251I		
a = -0.827817 - 0.635564I	0.66234 + 3.24612I	5.53982 - 5.24369I
b = 0.578417 + 0.631263I		
u = 0.17723 + 1.55173I		
a = -0.295356 + 1.335600I	-13.8104 + 7.2331I	-2.44727 - 4.47528I
b = 0.32806 + 2.00086I		
u = 0.17723 - 1.55173I		
a = -0.295356 - 1.335600I	-13.8104 - 7.2331I	-2.44727 + 4.47528I
b = 0.32806 - 2.00086I		

$$I_4^u = \langle 4u^{25} - 11u^{24} + \dots + b - 3, \ 5u^{25} - 13u^{24} + \dots + a + 4, \ u^{26} - 2u^{25} + \dots - 2u + 1 \rangle$$

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

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -5u^{25} + 13u^{24} + \dots - 10u - 4 \\ -4u^{25} + 11u^{24} + \dots - 10u + 3 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} -3u^{25} + 6u^{24} + \dots - 9u - 4 \\ -u^{25} - 9u^{23} + \dots - 8u^{2} - 2u \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -5u^{25} + 7u^{24} + \dots - 42u + 5 \\ u^{25} - 6u^{24} + \dots + 10u - 2 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -3u^{25} + 7u^{24} + \dots - 22u + 15 \\ -7u^{25} + 7u^{24} + \dots + 12u - 7 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -2u^{25} + 4u^{24} + \dots - 29u + 1 \\ 9u^{25} - 18u^{24} + \dots + 3u + 2 \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -3u^{25} + 6u^{24} + \dots - 9u - 5 \\ 2u^{25} - 8u^{24} + \dots + 2u - 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 4u^{25} - 8u^{24} + \dots + 25u - 1 \\ -u^{25} + u^{24} + \dots + 11u - 4 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

 $\begin{array}{l} = 16u^{25} - 52u^{24} + 260u^{23} - 670u^{22} + 1842u^{21} - 3831u^{20} + 7521u^{19} - 12817u^{18} + 19810u^{17} - 28104u^{16} + 36014u^{15} - 43461u^{14} + 47847u^{13} - 50479u^{12} + 48836u^{11} - 45762u^{10} + 38742u^9 - 31570u^8 + 22476u^7 - 15159u^6 + 8472u^5 - 4567u^4 + 1807u^3 - 763u^2 + 156u - 57u^4 + 1800u^2 + 150u^2 +$

Crossings	u-Polynomials at each crossing
c_1	$(u^{13} - 6u^{12} + \dots + 5u - 1)^2$
c_2,c_{11}	$u^{26} - 4u^{25} + \dots - u + 1$
c_3,c_{10}	$u^{26} - u^{25} + \dots + 4u + 1$
c_4, c_5, c_7 c_8	$u^{26} - 2u^{25} + \dots - 2u + 1$
<i>c</i> ₆	$(u^{13} + 2u^{12} + \dots + u + 1)^2$
c_9,c_{12}	$u^{26} + 2u^{25} + \dots + 2u + 1$

Crossings	Riley Polynomials at each crossing
c_1	$(y^{13} + 4y^{11} + \dots - 3y - 1)^2$
c_2, c_{11}	$y^{26} + 4y^{25} + \dots + 5y + 1$
c_3, c_{10}	$y^{26} + 9y^{25} + \dots - 6y + 1$
$c_4, c_5, c_7 \\ c_8, c_9, c_{12}$	$y^{26} + 26y^{25} + \dots + 34y + 1$
<i>C</i> ₆	$(y^{13} - 7y^{10} + \dots - y - 1)^2$

Solutions to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.730172 + 0.693234I		
a = 0.457696 + 0.118570I	0.74327 - 2.76180I	-9.3941 + 14.0297I
b = 0.236181 - 0.470634I		
u = -0.730172 - 0.693234I		
a = 0.457696 - 0.118570I	0.74327 + 2.76180I	-9.3941 - 14.0297I
b = 0.236181 + 0.470634I		
u = 0.773462 + 0.552068I		
a = 1.026150 + 0.066541I	-2.74327 + 2.81882I	5.01074 - 8.12348I
b = 0.654746 + 0.661477I		
u = 0.773462 - 0.552068I		
a = 1.026150 - 0.066541I	-2.74327 - 2.81882I	5.01074 + 8.12348I
b = 0.654746 - 0.661477I		
u = 0.720017 + 0.607404I		
a = -0.275549 - 0.019132I	-6.28182 + 4.31867I	-0.75118 - 2.96077I
b = -0.570038 + 0.617491I		
u = 0.720017 - 0.607404I		
a = -0.275549 + 0.019132I	-6.28182 - 4.31867I	-0.75118 + 2.96077I
b = -0.570038 - 0.617491I		
u = -0.080666 + 1.268250I		
a = -1.08174 - 2.09802I	-8.68134 - 6.43987I	-6.48218 + 7.11485I
b = -1.76821 - 2.64796I		
u = -0.080666 - 1.268250I		
a = -1.08174 + 2.09802I	-8.68134 + 6.43987I	-6.48218 - 7.11485I
b = -1.76821 + 2.64796I		
u = -0.017263 + 1.283860I		
a = 0.198829 + 0.356895I	-2.39119 + 2.86259I	-3.54485 - 5.28321I
b = -0.896234 + 0.172667I		
u = -0.017263 - 1.283860I		
a = 0.198829 - 0.356895I	-2.39119 - 2.86259I	-3.54485 + 5.28321I
b = -0.896234 - 0.172667I		

Solutions to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.015284 + 1.311700I		
a = -1.004590 + 0.763267I	-2.74327 + 2.81882I	5.01074 - 8.12348I
b = -2.46587 + 1.02119I		
u = 0.015284 - 1.311700I		
a = -1.004590 - 0.763267I	-2.74327 - 2.81882I	5.01074 + 8.12348I
b = -2.46587 - 1.02119I		
u = 0.210688 + 0.636307I		
a = 0.710237 - 0.090783I	-2.39119 + 2.86259I	-3.54485 - 5.28321I
b = 1.30620 + 0.62197I		
u = 0.210688 - 0.636307I		
a = 0.710237 + 0.090783I	-2.39119 - 2.86259I	-3.54485 + 5.28321I
b = 1.30620 - 0.62197I		
u = 0.370652 + 1.317530I		
a = -0.886501 + 0.298765I	-8.67622	-8.33663 + 0.I
b = -0.838761 + 0.875858I		
u = 0.370652 - 1.317530I		
a = -0.886501 - 0.298765I	-8.67622	-8.33663 + 0.I
b = -0.838761 - 0.875858I		
u = 0.26231 + 1.41381I		
a = -0.06979 + 2.20797I	-8.68134 + 6.43987I	-6.48218 - 7.11485I
b = 0.09292 + 2.96289I		
u = 0.26231 - 1.41381I		
a = -0.06979 - 2.20797I	-8.68134 - 6.43987I	-6.48218 + 7.11485I
b = 0.09292 - 2.96289I		
u = -0.080835 + 0.523611I		
a = -1.86091 + 1.66996I	-5.91635 + 5.69889I	-0.17009 - 4.31980I
b = -0.450527 + 1.118720I		
u = -0.080835 - 0.523611I		
a = -1.86091 - 1.66996I	-5.91635 - 5.69889I	-0.17009 + 4.31980I
b = -0.450527 - 1.118720I		

Solutions to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.21536 + 1.46358I		
a = 0.02422 - 1.85633I	-5.91635 - 5.69889I	0. + 4.31980I
b = 0.36067 - 2.69743I		
u = -0.21536 - 1.46358I		
a = 0.02422 + 1.85633I	-5.91635 + 5.69889I	0 4.31980I
b = 0.36067 + 2.69743I		
u = -0.20434 + 1.48454I		
a = -0.179745 - 1.164140I	-6.28182 - 4.31867I	0. + 2.96077I
b = 0.24017 - 1.99352I		
u = -0.20434 - 1.48454I		
a = -0.179745 + 1.164140I	-6.28182 + 4.31867I	0 2.96077I
b = 0.24017 + 1.99352I		
u = -0.023777 + 0.333723I		
a = -4.05830 + 0.35369I	0.74327 - 2.76180I	-9.3941 + 14.0297I
b = 0.098759 - 0.281806I		
u = -0.023777 - 0.333723I		
a = -4.05830 - 0.35369I	0.74327 + 2.76180I	-9.3941 - 14.0297I
b = 0.098759 + 0.281806I		

V. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{7} - 5u^{5} + \dots + 2u - 5)(u^{13} - 6u^{12} + \dots + 5u - 1)^{2}$ $\cdot (u^{27} - 7u^{26} + \dots + 176u - 16)(u^{49} + 8u^{48} + \dots - u + 139)^{2}$
c_2, c_{11}	$(u^{7} - u^{6} - 2u^{4} + 2u^{3} + 4u^{2} + 5u - 1)(u^{26} - 4u^{25} + \dots - u + 1)$ $\cdot (u^{27} + u^{26} + \dots - 3u + 1)(u^{98} - u^{97} + \dots + 78991u + 5641)$
c_3, c_{10}	$(u^{7} + u^{6} + 2u^{5} + 2u^{3} - u^{2} + u - 1)(u^{26} - u^{25} + \dots + 4u + 1)$ $\cdot (u^{27} + u^{26} + \dots + 3u + 1)(u^{98} - 12u^{96} + \dots - 2731098u + 1190927)$
c_4, c_5, c_7 c_8	$(u^{7} + u^{6} + \dots + 2u + 1)(u^{26} - 2u^{25} + \dots - 2u + 1)$ $\cdot (u^{27} - u^{26} + \dots + 2u + 1)(u^{98} + u^{97} + \dots + 36u + 1)$
c_6	$(u^{7} - u^{6} - 3u^{5} + 10u^{4} - 12u^{3} + 8u^{2} - 3u + 1)$ $\cdot ((u^{13} + 2u^{12} + \dots + u + 1)^{2})(u^{27} - 16u^{26} + \dots + 22u - 4)$ $\cdot (u^{49} + 6u^{48} + \dots + 7u + 1)^{2}$
c_9, c_{12}	$(u^{7} - u^{6} + \dots + 2u - 1)(u^{26} + 2u^{25} + \dots + 2u + 1)$ $\cdot (u^{27} - u^{26} + \dots + 2u + 1)(u^{98} + u^{97} + \dots + 36u + 1)$

VI. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{7} - 10y^{6} + 53y^{5} - 137y^{4} + 194y^{3} - 15y^{2} - 86y - 25)$ $\cdot ((y^{13} + 4y^{11} + \dots - 3y - 1)^{2})(y^{27} - 5y^{26} + \dots + 5280y - 256)$ $\cdot (y^{49} - 30y^{48} + \dots - 378913y - 19321)^{2}$
c_2,c_{11}	$(y^{7} - y^{6} + 14y^{4} + 18y^{3} + 33y - 1)(y^{26} + 4y^{25} + \dots + 5y + 1)$ $\cdot (y^{27} - 7y^{26} + \dots + 27y - 1)$ $\cdot (y^{98} + 23y^{97} + \dots + 672079733y + 31820881)$
c_3, c_{10}	$(y^{7} + 3y^{6} + \dots - y - 1)(y^{26} + 9y^{25} + \dots - 6y + 1)$ $\cdot (y^{27} - 7y^{26} + \dots + 17y - 1)$ $\cdot (y^{98} - 24y^{97} + \dots - 54241979206882y + 1418307119329)$
c_4, c_5, c_7 c_8, c_9, c_{12}	$(y^{7} + 7y^{6} + 16y^{5} + 7y^{4} - 21y^{3} - 26y^{2} - 8y - 1)$ $\cdot (y^{26} + 26y^{25} + \dots + 34y + 1)(y^{27} + 25y^{26} + \dots + 18y - 1)$ $\cdot (y^{98} + 101y^{97} + \dots - 326y + 1)$
c_6	$(y^{7} - 7y^{6} + 5y^{5} - 18y^{4} + 4y^{3} - 12y^{2} - 7y - 1)$ $\cdot ((y^{13} - 7y^{10} + \dots - y - 1)^{2})(y^{27} - 10y^{26} + \dots + 492y - 16)$ $\cdot (y^{49} - 6y^{48} + \dots + 25y - 1)^{2}$