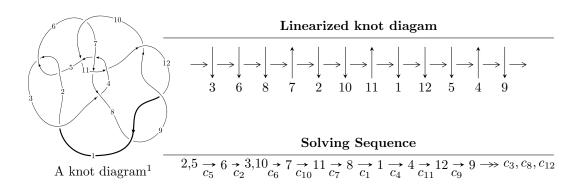
$12a_{0267} \ (K12a_{0267})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 2.48175 \times 10^{423} u^{145} + 6.47417 \times 10^{423} u^{144} + \dots + 2.60431 \times 10^{425} b - 4.75085 \times 10^{426}, \\ &\quad 1.32031 \times 10^{428} u^{145} + 5.69757 \times 10^{428} u^{144} + \dots + 7.55251 \times 10^{427} a - 5.42178 \times 10^{430}, \\ &\quad u^{146} + 4 u^{145} + \dots - 333 u + 145 \rangle \\ I_2^u &= \langle -22 u^{28} + 63 u^{27} + \dots + b + 40, \ 23 u^{28} - 38 u^{27} + \dots + a - 9, \ u^{29} - 3 u^{28} + \dots - 3 u + 1 \rangle \\ I_3^u &= \langle -8 a^5 + 5 a^4 + 4 a^3 - 31 a^2 + 69 b - 64 a + 78, \ a^6 - 2 a^5 + 6 a^3 - 2 a^2 - 15 a + 17, \ u + 1 \rangle \end{split}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 181 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.
$$I_1^u = \langle 2.48 \times 10^{423} u^{145} + 6.47 \times 10^{423} u^{144} + \dots + 2.60 \times 10^{425} b - 4.75 \times 10^{426}, \ 1.32 \times 10^{428} u^{145} + 5.70 \times 10^{428} u^{144} + \dots + 7.55 \times 10^{427} a - 5.42 \times 10^{430}, \ u^{146} + 4u^{145} + \dots - 333u + 145 \rangle$$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.74818u^{145} - 7.54395u^{144} + \dots + 409.136u + 717.878 \\ -0.00952937u^{145} - 0.0248594u^{144} + \dots + 17.2071u + 18.2422 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.435446u^{145} - 1.88667u^{144} + \dots + 130.906u + 250.926 \\ 0.114455u^{145} + 0.546935u^{144} + \dots + 7.79061u - 52.6943 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -1.73865u^{145} - 7.51909u^{144} + \dots + 391.929u + 699.635 \\ -0.00952937u^{145} - 0.0248594u^{144} + \dots + 17.2071u + 18.2422 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1.22486u^{145} + 5.37461u^{144} + \dots - 224.823u - 480.791 \\ 0.0428686u^{145} + 0.227799u^{144} + \dots + 11.5021u - 11.9860 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^3 \\ u^5 - u^3 + u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.391087u^{145} + 1.84118u^{144} + \dots - 36.1350u - 159.522 \\ 0.223870u^{145} + 0.982120u^{144} + \dots - 18.3317u - 65.0821 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.120587u^{145} + 0.503240u^{144} + \dots - 24.4200u - 68.1190 \\ 0.120621u^{145} + 0.526531u^{144} + \dots - 34.8729u - 61.0393 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1.24939u^{145} + 5.50261u^{144} + \dots - 217.275u - 493.079 \\ 0.194473u^{145} + 0.884878u^{144} + \dots - 14.3452u - 60.1351 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.772054u^{145} 3.28462u^{144} + \cdots 30.4527u + 140.299$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{146} + 56u^{145} + \dots + 723369u + 21025$
c_2, c_5	$u^{146} + 4u^{145} + \dots - 333u + 145$
c_3	$u^{146} + 4u^{145} + \dots + 2468988890u + 899654983$
c_4	$u^{146} + 12u^{145} + \dots + 18u + 1$
<i>c</i> ₆	$u^{146} - u^{145} + \dots + 13382u - 2117$
C ₇	$u^{146} - 4u^{144} + \dots + 672u + 320$
c_8, c_9, c_{12}	$u^{146} + 5u^{145} + \dots + 24u - 1$
c_{10}	$u^{146} - u^{145} + \dots + 1200u + 145$
c_{11}	$u^{146} - 5u^{145} + \dots - 1206u + 145$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{146} + 76y^{145} + \dots - 56026237661y + 442050625$
c_2, c_5	$y^{146} - 56y^{145} + \dots - 723369y + 21025$
<i>c</i> ₃	$y^{146} + 48y^{145} + \dots - 8.05 \times 10^{19}y + 8.09 \times 10^{17}$
c_4	$y^{146} + 4y^{145} + \dots + 274y + 1$
<i>C</i> ₆	$y^{146} + 31y^{145} + \dots + 165806780y + 4481689$
<i>C</i> ₇	$y^{146} - 8y^{145} + \dots - 3339264y + 102400$
c_8, c_9, c_{12}	$y^{146} + 147y^{145} + \dots + 14y + 1$
c_{10}	$y^{146} + 17y^{145} + \dots + 1475950y + 21025$
c_{11}	$y^{146} - 7y^{145} + \dots - 324306y + 21025$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.717312 + 0.699409I		
a = -2.34714 - 1.26596I	9.86898 - 3.45452I	0
b = -0.079322 + 0.544577I		
u = -0.717312 - 0.699409I		
a = -2.34714 + 1.26596I	9.86898 + 3.45452I	0
b = -0.079322 - 0.544577I		
u = 0.751663 + 0.666797I		
a = -0.724199 - 0.469522I	4.66153 + 3.56872I	0
b = -0.572940 + 1.018600I		
u = 0.751663 - 0.666797I		
a = -0.724199 + 0.469522I	4.66153 - 3.56872I	0
b = -0.572940 - 1.018600I		
u = 1.002600 + 0.195131I		
a = 2.13983 + 0.28539I	0.85295 - 5.12362I	0
b = 0.482851 + 0.453150I		
u = 1.002600 - 0.195131I		
a = 2.13983 - 0.28539I	0.85295 + 5.12362I	0
b = 0.482851 - 0.453150I		
u = 0.783873 + 0.582905I		
a = -0.71241 + 2.00247I	-0.191919 + 0.970948I	0
b = -1.98372 + 0.05552I		
u = 0.783873 - 0.582905I		
a = -0.71241 - 2.00247I	-0.191919 - 0.970948I	0
b = -1.98372 - 0.05552I		
u = -0.723954 + 0.736563I		
a = -0.170958 + 0.108878I	3.10050 - 3.62856I	0
b = 0.89695 + 1.32014I		
u = -0.723954 - 0.736563I		
a = -0.170958 - 0.108878I	3.10050 + 3.62856I	0
b = 0.89695 - 1.32014I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.797875 + 0.656098I		
a = 1.167590 + 0.442098I	0.107696 - 0.580505I	0
b = 0.972968 + 0.380891I		
u = -0.797875 - 0.656098I		
a = 1.167590 - 0.442098I	0.107696 + 0.580505I	0
b = 0.972968 - 0.380891I		
u = 0.583336 + 0.856509I		
a = 0.174856 + 0.109704I	4.28577 + 1.52049I	0
b = 0.083596 - 0.849372I		
u = 0.583336 - 0.856509I		
a = 0.174856 - 0.109704I	4.28577 - 1.52049I	0
b = 0.083596 + 0.849372I		
u = -1.027870 + 0.186062I		
a = 2.17640 - 0.35403I	-3.22736 - 0.23964I	0
b = 1.40942 - 1.24508I		
u = -1.027870 - 0.186062I		
a = 2.17640 + 0.35403I	-3.22736 + 0.23964I	0
b = 1.40942 + 1.24508I		
u = 0.955093 + 0.003365I		
a = -1.72619 + 1.44767I	-1.92739 + 4.08568I	0
b = -1.036130 + 0.751399I		
u = 0.955093 - 0.003365I		
a = -1.72619 - 1.44767I	-1.92739 - 4.08568I	0
b = -1.036130 - 0.751399I		
u = -0.351932 + 0.984589I		
a = 0.092783 - 0.200915I	1.45577 + 4.86741I	0
b = -0.545899 + 0.665342I		
u = -0.351932 - 0.984589I		
a = 0.092783 + 0.200915I	1.45577 - 4.86741I	0
b = -0.545899 - 0.665342I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.545918 + 0.782116I		
a = 0.43363 - 1.50600I	7.78027 + 5.16500I	0
b = 1.52469 + 0.52897I		
u = 0.545918 - 0.782116I		
a = 0.43363 + 1.50600I	7.78027 - 5.16500I	0
b = 1.52469 - 0.52897I		
u = 0.866478 + 0.591952I		
a = -1.77016 + 0.59900I	-0.48155 - 2.33988I	0
b = -0.19223 - 1.69763I		
u = 0.866478 - 0.591952I		
a = -1.77016 - 0.59900I	-0.48155 + 2.33988I	0
b = -0.19223 + 1.69763I		
u = 0.943710 + 0.103188I		
a = -0.738796 - 0.840429I	5.60767 + 3.55011I	0
b = -0.400481 + 0.993970I		
u = 0.943710 - 0.103188I		
a = -0.738796 + 0.840429I	5.60767 - 3.55011I	0
b = -0.400481 - 0.993970I		
u = -1.039070 + 0.180991I		
a = 0.52614 + 1.82921I	0.96939 - 3.33538I	0
b = 0.323777 + 0.640515I		
u = -1.039070 - 0.180991I		
a = 0.52614 - 1.82921I	0.96939 + 3.33538I	0
b = 0.323777 - 0.640515I		
u = -0.876289 + 0.351593I		
a = -0.69058 - 1.43780I	-1.81241 + 1.71386I	0
b = -0.765163 - 0.920942I		
u = -0.876289 - 0.351593I		
a = -0.69058 + 1.43780I	-1.81241 - 1.71386I	0
b = -0.765163 + 0.920942I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.850854 + 0.402864I		
a = -2.64553 - 0.68802I	-0.82398 + 4.32637I	0
b = -1.44440 + 0.94266I		
u = -0.850854 - 0.402864I		
a = -2.64553 + 0.68802I	-0.82398 - 4.32637I	0
b = -1.44440 - 0.94266I		
u = 0.930828 + 0.018677I		
a = -2.12552 + 1.00341I	-4.02304 + 1.06856I	0
b = -0.630981 + 0.098833I		
u = 0.930828 - 0.018677I		
a = -2.12552 - 1.00341I	-4.02304 - 1.06856I	0
b = -0.630981 - 0.098833I		
u = -0.616483 + 0.873993I		
a = 0.072867 + 0.126550I	3.03814 - 9.09734I	0
b = -0.86988 - 1.25529I		
u = -0.616483 - 0.873993I		
a = 0.072867 - 0.126550I	3.03814 + 9.09734I	0
b = -0.86988 + 1.25529I		
u = 0.680944 + 0.828876I		
a = -0.86122 + 1.39805I	8.81877 - 2.41807I	0
b = 0.164437 - 0.912029I		
u = 0.680944 - 0.828876I		
a = -0.86122 - 1.39805I	8.81877 + 2.41807I	0
b = 0.164437 + 0.912029I		
u = -0.852601 + 0.652615I		
a = 1.64036 + 0.74160I	2.32733 - 0.87919I	0
b = 0.071893 - 0.436529I		
u = -0.852601 - 0.652615I		
a = 1.64036 - 0.74160I	2.32733 + 0.87919I	0
b = 0.071893 + 0.436529I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.780971 + 0.742856I		
a = 0.232829 - 0.157510I	3.52936 - 2.28901I	0
b = -0.094111 + 1.009100I		
u = 0.780971 - 0.742856I		
a = 0.232829 + 0.157510I	3.52936 + 2.28901I	0
b = -0.094111 - 1.009100I		
u = -0.689959 + 0.608093I		
a = 0.032715 + 1.229640I	3.81022 + 3.81839I	0
b = 0.484351 + 0.845214I		
u = -0.689959 - 0.608093I		
a = 0.032715 - 1.229640I	3.81022 - 3.81839I	0
b = 0.484351 - 0.845214I		
u = -0.859691 + 0.657191I		
a = -0.512576 + 0.995728I	2.30507 + 5.97578I	0
b = 0.032009 - 0.682643I		
u = -0.859691 - 0.657191I		
a = -0.512576 - 0.995728I	2.30507 - 5.97578I	0
b = 0.032009 + 0.682643I		
u = -0.815653 + 0.734411I		
a = 2.03170 + 1.16713I	10.83000 + 5.19918I	0
b = 1.11060 - 1.14783I		
u = -0.815653 - 0.734411I		
a = 2.03170 - 1.16713I	10.83000 - 5.19918I	0
b = 1.11060 + 1.14783I		
u = -0.724535 + 0.830904I		
a = -0.794990 + 0.278518I	7.60813 - 4.48816I	0
b = -0.703464 - 0.616085I		
u = -0.724535 - 0.830904I		
a = -0.794990 - 0.278518I	7.60813 + 4.48816I	0
b = -0.703464 + 0.616085I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.944102 + 0.608604I		
a = 0.68731 - 1.69640I	-0.73934 - 5.69919I	0
b = 2.06292 - 0.40586I		
u = 0.944102 - 0.608604I		
a = 0.68731 + 1.69640I	-0.73934 + 5.69919I	0
b = 2.06292 + 0.40586I		
u = -1.100140 + 0.236992I		
a = -0.654771 - 1.247530I	-3.40640 - 0.64916I	0
b = -0.496947 - 0.600281I		
u = -1.100140 - 0.236992I		
a = -0.654771 + 1.247530I	-3.40640 + 0.64916I	0
b = -0.496947 + 0.600281I		
u = 0.865788 + 0.728011I		
a = 0.791746 - 0.828220I	2.99302 - 2.77400I	0
b = 0.015922 + 0.987668I		
u = 0.865788 - 0.728011I		
a = 0.791746 + 0.828220I	2.99302 + 2.77400I	0
b = 0.015922 - 0.987668I		
u = 0.448442 + 0.732258I		
a = 0.269708 - 0.445502I	3.42380 + 1.90527I	0
b = -0.570422 + 1.153250I		
u = 0.448442 - 0.732258I		
a = 0.269708 + 0.445502I	3.42380 - 1.90527I	0
b = -0.570422 - 1.153250I		
u = -0.929973 + 0.667074I		
a = -1.79299 - 0.78709I	-0.32097 + 5.73154I	0
b = -0.949166 + 0.276522I		
u = -0.929973 - 0.667074I		
a = -1.79299 + 0.78709I	-0.32097 - 5.73154I	0
b = -0.949166 - 0.276522I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.925352 + 0.696312I		
a = 1.180240 - 0.330252I	3.08550 - 3.19478I	0
b = 0.248804 + 0.874632I		
u = 0.925352 - 0.696312I		
a = 1.180240 + 0.330252I	3.08550 + 3.19478I	0
b = 0.248804 - 0.874632I		
u = 0.958288 + 0.653774I		
a = 2.30704 - 0.58891I	4.01195 - 8.70770I	0
b = 0.672339 + 0.916215I		
u = 0.958288 - 0.653774I		
a = 2.30704 + 0.58891I	4.01195 + 8.70770I	0
b = 0.672339 - 0.916215I		
u = -0.911350 + 0.724923I		
a = -0.096637 - 0.263627I	10.54000 + 0.35533I	0
b = -0.95510 - 1.29492I		
u = -0.911350 - 0.724923I		
a = -0.096637 + 0.263627I	10.54000 - 0.35533I	0
b = -0.95510 + 1.29492I		
u = 1.036340 + 0.539959I		
a = -2.17866 + 0.23890I	-1.54255 - 7.41509I	0
b = -0.732179 - 0.945162I		
u = 1.036340 - 0.539959I		
a = -2.17866 - 0.23890I	-1.54255 + 7.41509I	0
b = -0.732179 + 0.945162I		
u = 0.804131 + 0.196781I		
a = 1.63599 - 1.35164I	-1.84482 - 3.79193I	0
b = 0.861544 + 0.425394I		
u = 0.804131 - 0.196781I		
a = 1.63599 + 1.35164I	-1.84482 + 3.79193I	0
b = 0.861544 - 0.425394I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.977193 + 0.662468I		
a = 0.651879 - 1.038750I	9.06594 + 8.71802I	0
b = 0.117675 + 0.764877I		
u = -0.977193 - 0.662468I		
a = 0.651879 + 1.038750I	9.06594 - 8.71802I	0
b = 0.117675 - 0.764877I		
u = 0.841321 + 0.839641I		
a = -0.974740 + 0.296884I	9.07418 - 0.01157I	0
b = -0.431739 - 0.975195I		
u = 0.841321 - 0.839641I		
a = -0.974740 - 0.296884I	9.07418 + 0.01157I	0
b = -0.431739 + 0.975195I		
u = -0.627394 + 1.009860I		
a = 0.057245 - 0.154601I	9.8836 - 13.0615I	0
b = 0.89466 + 1.22131I		
u = -0.627394 - 1.009860I		
a = 0.057245 + 0.154601I	9.8836 + 13.0615I	0
b = 0.89466 - 1.22131I		
u = 0.604209 + 0.540416I		
a = 0.821630 - 0.997718I	3.36586 + 2.04358I	0
b = -0.274803 + 1.293460I		
u = 0.604209 - 0.540416I		
a = 0.821630 + 0.997718I	3.36586 - 2.04358I	0
b = -0.274803 - 1.293460I		
u = -0.974105 + 0.690922I		
a = -2.01905 - 0.78783I	2.33836 + 9.08534I	0
b = -1.07905 + 1.30600I		
u = -0.974105 - 0.690922I		
a = -2.01905 + 0.78783I	2.33836 - 9.08534I	0
b = -1.07905 - 1.30600I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.141470 + 0.355948I		
a = 0.652636 + 0.431142I	-2.15783 + 0.47274I	0
b = 0.796747 + 0.083578I		
u = -1.141470 - 0.355948I		
a = 0.652636 - 0.431142I	-2.15783 - 0.47274I	0
b = 0.796747 - 0.083578I		
u = -1.19608		
a = -0.117728	-2.16845	0
b = 0.106639		
u = 1.188120 + 0.138968I		
a = 1.57314 + 0.69630I	-3.98425 - 8.00183I	0
b = 0.996363 + 0.874980I		
u = 1.188120 - 0.138968I		
a = 1.57314 - 0.69630I	-3.98425 + 8.00183I	0
b = 0.996363 - 0.874980I		
u = 0.573498 + 1.052730I		
a = -0.208464 + 0.063402I	10.84240 + 4.19994I	0
b = -0.126410 + 0.761614I		
u = 0.573498 - 1.052730I		
a = -0.208464 - 0.063402I	10.84240 - 4.19994I	0
b = -0.126410 - 0.761614I		
u = -1.20457		
a = 1.25998	-2.29042	0
b = 1.28139		
u = -0.924917 + 0.772626I		
a = -0.510780 - 0.815666I	0.39823 + 2.97064I	0
b = -0.136400 + 0.394155I		
u = -0.924917 - 0.772626I		
a = -0.510780 + 0.815666I	0.39823 - 2.97064I	0
b = -0.136400 - 0.394155I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.211270 + 0.065690I		
a = -1.39811 + 0.41631I	2.01877 - 3.27988I	0
b = -1.12136 + 1.38456I		
u = -1.211270 - 0.065690I		
a = -1.39811 - 0.41631I	2.01877 + 3.27988I	0
b = -1.12136 - 1.38456I		
u = -1.018490 + 0.661123I		
a = -0.607336 - 0.209676I	2.70677 + 1.18376I	0
b = -0.786040 + 0.277425I		
u = -1.018490 - 0.661123I		
a = -0.607336 + 0.209676I	2.70677 - 1.18376I	0
b = -0.786040 - 0.277425I		
u = 0.626628 + 1.043640I		
a = -0.244716 - 0.109112I	11.28110 + 3.15961I	0
b = 0.98256 - 1.14932I		
u = 0.626628 - 1.043640I		
a = -0.244716 + 0.109112I	11.28110 - 3.15961I	0
b = 0.98256 + 1.14932I		
u = 1.104500 + 0.515664I		
a = 1.97248 - 0.25552I	1.40489 - 6.40274I	0
b = 0.662522 + 1.080330I		
u = 1.104500 - 0.515664I		
a = 1.97248 + 0.25552I	1.40489 + 6.40274I	0
b = 0.662522 - 1.080330I		
u = 0.917205 + 0.806471I		
a = -0.202384 - 0.247972I	8.83751 - 6.09791I	0
b = 0.315295 - 1.057050I		
u = 0.917205 - 0.806471I		
a = -0.202384 + 0.247972I	8.83751 + 6.09791I	0
b = 0.315295 + 1.057050I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.179720 + 0.318102I		
a = 0.820981 + 0.995675I	0.20487 + 1.42751I	0
b = 0.652857 + 0.704724I		
u = -1.179720 - 0.318102I		
a = 0.820981 - 0.995675I	0.20487 - 1.42751I	0
b = 0.652857 - 0.704724I		
u = 1.036700 + 0.650543I		
a = 1.79157 - 0.52989I	1.90387 - 7.08754I	0
b = 0.84396 + 1.50469I		
u = 1.036700 - 0.650543I		
a = 1.79157 + 0.52989I	1.90387 + 7.08754I	0
b = 0.84396 - 1.50469I		
u = -0.654689 + 0.392271I		
a = 0.298988 + 0.601962I	-0.307473 - 0.908053I	0
b = 0.762877 + 0.836639I		
u = -0.654689 - 0.392271I		
a = 0.298988 - 0.601962I	-0.307473 + 0.908053I	0
b = 0.762877 - 0.836639I		
u = -1.002750 + 0.742942I		
a = 1.75731 + 0.93699I	6.75352 + 10.37920I	0
b = 0.732421 - 0.570435I		
u = -1.002750 - 0.742942I		
a = 1.75731 - 0.93699I	6.75352 - 10.37920I	0
b = 0.732421 + 0.570435I		
u = 1.064050 + 0.676398I		
a = -0.494160 + 1.258780I	6.26797 - 10.69380I	0
b = -1.80412 + 0.71872I		
u = 1.064050 - 0.676398I		
a = -0.494160 - 1.258780I	6.26797 + 10.69380I	0
b = -1.80412 - 0.71872I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.020640 + 0.741876I		
a = -0.528153 + 0.894894I	7.80410 - 3.46305I	0
b = -0.014774 - 1.081540I		
u = 1.020640 - 0.741876I		
a = -0.528153 - 0.894894I	7.80410 + 3.46305I	0
b = -0.014774 + 1.081540I		
u = 0.015470 + 0.719101I		
a = -0.739835 - 0.441853I	4.01829 + 2.28197I	0
b = -0.554711 + 0.786758I		
u = 0.015470 - 0.719101I		
a = -0.739835 + 0.441853I	4.01829 - 2.28197I	0
b = -0.554711 - 0.786758I		
u = 1.072250 + 0.704229I		
a = -1.203790 + 0.050774I	2.81137 - 7.33191I	0
b = -0.316168 - 0.789491I		
u = 1.072250 - 0.704229I		
a = -1.203790 - 0.050774I	2.81137 + 7.33191I	0
b = -0.316168 + 0.789491I		
u = -1.064020 + 0.720248I		
a = 1.86456 + 0.66153I	1.6749 + 15.0128I	0
b = 0.99984 - 1.30916I		
u = -1.064020 - 0.720248I		
a = 1.86456 - 0.66153I	1.6749 - 15.0128I	0
b = 0.99984 + 1.30916I		
u = 0.619429 + 0.355417I		
a = 0.976203 + 0.498064I	0.05861 + 3.28511I	0
b = 0.529728 - 0.970025I		
u = 0.619429 - 0.355417I		
a = 0.976203 - 0.498064I	0.05861 - 3.28511I	0
b = 0.529728 + 0.970025I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.211348 + 1.273640I		
a = 0.017221 + 0.147212I	7.20516 + 6.10676I	0
b = 0.727165 - 0.627290I		
u = -0.211348 - 1.273640I		
a = 0.017221 - 0.147212I	7.20516 - 6.10676I	0
b = 0.727165 + 0.627290I		
u = -1.118810 + 0.770554I		
a = -1.73652 - 0.63855I	8.3272 + 19.5300I	0
b = -0.96940 + 1.28485I		
u = -1.118810 - 0.770554I		
a = -1.73652 + 0.63855I	8.3272 - 19.5300I	0
b = -0.96940 - 1.28485I		
u = -0.852842 + 1.063010I		
a = 0.135865 + 0.407023I	4.42543 + 5.17117I	0
b = 0.372485 - 0.363029I		
u = -0.852842 - 1.063010I		
a = 0.135865 - 0.407023I	4.42543 - 5.17117I	0
b = 0.372485 + 0.363029I		
u = 1.123240 + 0.789966I		
a = -1.48344 + 0.58122I	9.71395 - 9.76955I	0
b = -1.16989 - 1.34831I		
u = 1.123240 - 0.789966I		
a = -1.48344 - 0.58122I	9.71395 + 9.76955I	0
b = -1.16989 + 1.34831I		
u = 1.352670 + 0.237321I		
a = -1.40255 - 0.38503I	1.34036 - 11.09600I	0
b = -1.021460 - 0.929167I		
u = 1.352670 - 0.237321I		
a = -1.40255 + 0.38503I	1.34036 + 11.09600I	0
b = -1.021460 + 0.929167I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.150560 + 0.763047I		
a = 1.089060 + 0.045709I	9.02146 - 10.73960I	0
b = 0.346968 + 0.761374I		
u = 1.150560 - 0.763047I		
a = 1.089060 - 0.045709I	9.02146 + 10.73960I	0
b = 0.346968 - 0.761374I		
u = -1.339970 + 0.352179I		
a = 0.312800 - 0.071554I	1.99227 + 1.49520I	0
b = -0.0361016 - 0.1163310I		
u = -1.339970 - 0.352179I		
a = 0.312800 + 0.071554I	1.99227 - 1.49520I	0
b = -0.0361016 + 0.1163310I		
u = -0.529964 + 0.262897I		
a = 1.254970 - 0.280525I	2.93103 + 5.26061I	-3.71177 - 8.49168I
b = -0.296314 + 0.993222I		
u = -0.529964 - 0.262897I		
a = 1.254970 + 0.280525I	2.93103 - 5.26061I	-3.71177 + 8.49168I
b = -0.296314 - 0.993222I		
u = 0.164122 + 0.493858I		
a = 0.530993 - 0.239220I	0.28061 + 3.26037I	-8.37838 - 3.30675I
b = 0.541150 - 0.939625I		
u = 0.164122 - 0.493858I		
a = 0.530993 + 0.239220I	0.28061 - 3.26037I	-8.37838 + 3.30675I
b = 0.541150 + 0.939625I		
u = -1.48761 + 0.30426I		
a = -0.783072 - 0.156790I	2.14579 + 0.41787I	0
b = -1.086000 + 0.037885I		
u = -1.48761 - 0.30426I		
a = -0.783072 + 0.156790I	2.14579 - 0.41787I	0
b = -1.086000 - 0.037885I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.314789 + 0.222246I		
a = 1.161900 - 0.410180I	-0.821941 + 0.839879I	-7.00670 - 5.24574I
b = 0.424500 - 0.553519I		
u = -0.314789 - 0.222246I		
a = 1.161900 + 0.410180I	-0.821941 - 0.839879I	-7.00670 + 5.24574I
b = 0.424500 + 0.553519I		
u = 0.355411 + 0.003002I		
a = 1.72894 - 7.95506I	7.70434 + 4.10760I	-12.27056 - 1.05216I
b = 0.744773 - 0.245230I		
u = 0.355411 - 0.003002I		
a = 1.72894 + 7.95506I	7.70434 - 4.10760I	-12.27056 + 1.05216I
b = 0.744773 + 0.245230I		
u = 0.079327 + 0.315653I		
a = 2.24173 + 0.75887I	-0.21366 + 2.11606I	-6.00885 - 3.78588I
b = -0.810366 - 0.262073I		
u = 0.079327 - 0.315653I		
a = 2.24173 - 0.75887I	-0.21366 - 2.11606I	-6.00885 + 3.78588I
b = -0.810366 + 0.262073I		

II.
$$I_2^u = \langle -22u^{28} + 63u^{27} + \dots + b + 40, \ 23u^{28} - 38u^{27} + \dots + a - 9, \ u^{29} - 3u^{28} + \dots - 3u + 1 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{10} = \begin{pmatrix} 22u^{28} + 38u^{27} + \dots + 41u + 9 \\ 22u^{28} - 63u^{27} + \dots + 72u - 40 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{28} + 5u^{27} + \dots - 4u + 17 \\ -u^{28} + 2u^{27} + \dots - u^{2} - 3u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -45u^{28} + 101u^{27} + \dots - 113u + 49 \\ 22u^{28} - 63u^{27} + \dots + 72u - 40 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 39u^{28} - 80u^{27} + \dots + 85u - 28 \\ -16u^{28} + 21u^{27} + \dots - 18u + 1 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} u^{3} \\ 11u^{28} - 23u^{27} + \dots + 25u - 11 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 34u^{28} + 89u^{27} + \dots + 92u - 57 \\ 4u^{28} - 3u^{27} + \dots + 3u + 10 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 32u^{28} - 78u^{27} + \dots + 87u - 37 \\ -8u^{28} + 4u^{27} + \dots + 27u^{2} - 7 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= -30u^{27} + 30u^{26} + 157u^{25} - 234u^{24} - 386u^{23} + 713u^{22} + 611u^{21} - 1352u^{20} - 986u^{19} + 2153u^{18} + 1363u^{17} - 3142u^{16} - 1303u^{15} + 3621u^{14} + 840u^{13} - 3346u^{12} - 504u^{11} + 2575u^{10} + 261u^{9} - 1854u^{8} + 38u^{7} + 934u^{6} - 106u^{5} - 373u^{4} + 37u^{3} + 78u^{2} + 18u - 38$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{29} - 13u^{28} + \dots + 7u - 1$
c_2	$u^{29} + 3u^{28} + \dots - 3u - 1$
c_3	$u^{29} - 5u^{27} + \dots + 12u - 1$
<i>C</i> ₄	$u^{29} - u^{27} + \dots - 4u^2 - 1$
C ₅	$u^{29} - 3u^{28} + \dots - 3u + 1$
<i>C</i> ₆	$u^{29} + 2u^{28} + \dots + 8u^2 - 1$
	$u^{29} - u^{28} + \dots - 30u + 35$
c_{8}, c_{9}	$u^{29} - 6u^{28} + \dots + 4u - 1$
c_{10}	$u^{29} - 5u^{27} + \dots + 3u^2 - 1$
c_{11}	$u^{29} - 3u^{27} + \dots + 5u^2 - 1$
c_{12}	$u^{29} + 6u^{28} + \dots + 4u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{29} + 7y^{28} + \dots - 25y - 1$
c_2, c_5	$y^{29} - 13y^{28} + \dots + 7y - 1$
c_3	$y^{29} - 10y^{28} + \dots + 24y - 1$
c_4	$y^{29} - 2y^{28} + \dots - 8y - 1$
<i>c</i> ₆	$y^{29} + 22y^{28} + \dots + 16y - 1$
C ₇	$y^{29} + 13y^{28} + \dots + 10350y - 1225$
c_8, c_9, c_{12}	$y^{29} + 30y^{28} + \dots - 26y - 1$
c_{10}	$y^{29} - 10y^{28} + \dots + 6y - 1$
c_{11}	$y^{29} - 6y^{28} + \dots + 10y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.603979 + 0.758503I		
a = -0.853063 + 0.992538I	8.88525 + 3.99076I	0.14446 - 2.94436I
b = -0.742925 + 0.396876I		
u = 0.603979 - 0.758503I		
a = -0.853063 - 0.992538I	8.88525 - 3.99076I	0.14446 + 2.94436I
b = -0.742925 - 0.396876I		
u = 0.809799 + 0.645934I		
a = 1.06316 - 1.04956I	0.560298 + 0.654606I	2.63934 - 2.40355I
b = 1.270230 - 0.277462I		
u = 0.809799 - 0.645934I		
a = 1.06316 + 1.04956I	0.560298 - 0.654606I	2.63934 + 2.40355I
b = 1.270230 + 0.277462I		
u = -0.990375 + 0.369439I		
a = -0.88962 - 1.19823I	-1.94545 - 0.59072I	-11.29662 + 3.04823I
b = -1.257750 - 0.409646I		
u = -0.990375 - 0.369439I		
a = -0.88962 + 1.19823I	-1.94545 + 0.59072I	-11.29662 - 3.04823I
b = -1.257750 + 0.409646I		
u = -0.540273 + 0.748686I		
a = -0.232531 + 0.556382I	1.26086 + 4.36994I	-7.81233 - 4.10632I
b = 0.431449 - 0.681053I		
u = -0.540273 - 0.748686I		
a = -0.232531 - 0.556382I	1.26086 - 4.36994I	-7.81233 + 4.10632I
b = 0.431449 + 0.681053I		
u = 0.923343 + 0.645596I		
a = -1.46577 + 0.82768I	0.19514 - 5.69192I	-0.11025 + 8.57297I
b = -1.259210 - 0.245149I		
u = 0.923343 - 0.645596I		
a = -1.46577 - 0.82768I	0.19514 + 5.69192I	-0.11025 - 8.57297I
b = -1.259210 + 0.245149I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.030400 + 0.511587I		
a = -2.10531 + 0.22494I	-0.83926 - 7.04364I	-4.54902 + 6.58787I
b = -0.888420 - 0.939075I		
u = 1.030400 - 0.511587I		
a = -2.10531 - 0.22494I	-0.83926 + 7.04364I	-4.54902 - 6.58787I
b = -0.888420 + 0.939075I		
u = 1.071310 + 0.449170I		
a = 2.24231 + 0.08581I	1.36154 - 7.41260I	-5.66969 + 10.49828I
b = 0.631284 + 0.976916I		
u = 1.071310 - 0.449170I		
a = 2.24231 - 0.08581I	1.36154 + 7.41260I	-5.66969 - 10.49828I
b = 0.631284 - 0.976916I		
u = -0.761627 + 0.334872I		
a = 1.75452 + 1.63145I	-1.10598 + 3.57442I	-7.61817 - 2.46604I
b = 1.263110 - 0.309630I		
u = -0.761627 - 0.334872I		
a = 1.75452 - 1.63145I	-1.10598 - 3.57442I	-7.61817 + 2.46604I
b = 1.263110 + 0.309630I		
u = -0.658517 + 0.969435I		
a = 0.0936036 - 0.0082906I	5.02914 + 5.15670I	3.74856 - 7.07707I
b = -0.214901 + 0.639805I		
u = -0.658517 - 0.969435I		
a = 0.0936036 + 0.0082906I	5.02914 - 5.15670I	3.74856 + 7.07707I
b = -0.214901 - 0.639805I		
u = 0.651359 + 0.447890I		
a = 0.812864 - 0.001307I	0.49961 + 3.00268I	-0.177166 + 0.645446I
b = 0.651736 - 0.964731I		
u = 0.651359 - 0.447890I		
a = 0.812864 + 0.001307I	0.49961 - 3.00268I	-0.177166 - 0.645446I
b = 0.651736 + 0.964731I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.22387		
a = -0.917542	-2.55545	-22.7140
b = -0.837300		
u = 0.670037 + 0.328739I		
a = -0.50275 - 1.37469I	2.93642 + 4.03665I	-4.98365 - 3.48684I
b = -0.379319 + 1.050880I		
u = 0.670037 - 0.328739I		
a = -0.50275 + 1.37469I	2.93642 - 4.03665I	-4.98365 + 3.48684I
b = -0.379319 - 1.050880I		
u = 1.048350 + 0.709611I		
a = 1.351230 - 0.360180I	7.58140 - 9.62710I	-1.49140 + 6.93719I
b = 0.853412 + 0.354777I		
u = 1.048350 - 0.709611I		
a = 1.351230 + 0.360180I	7.58140 + 9.62710I	-1.49140 - 6.93719I
b = 0.853412 - 0.354777I		
u = -0.299203 + 0.481809I		
a = 2.70786 - 2.40692I	8.13165 + 4.30275I	4.34905 - 7.80104I
b = -0.551224 + 0.439249I		
u = -0.299203 - 0.481809I		
a = 2.70786 + 2.40692I	8.13165 - 4.30275I	4.34905 + 7.80104I
b = -0.551224 - 0.439249I		
u = -1.44665 + 0.32614I		
a = 0.482265 + 0.274236I	1.62579 + 1.29613I	-12.31614 + 1.51557I
b = 0.611179 + 0.227807I		
u = -1.44665 - 0.32614I		
a = 0.482265 - 0.274236I	1.62579 - 1.29613I	-12.31614 - 1.51557I
b = 0.611179 - 0.227807I		

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.115942a^5 - 0.0724638a^4 + \dots + 0.927536a - 1.13043 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.159420a^5 - 0.0579710a^4 + \dots + 0.608696a - 0.971014 \\ 0.00483092a^5 - 0.0724638a^4 + \dots - 0.183575a + 0.314010 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.115942a^5 + 0.0724638a^4 + \dots + 0.0724638a + 1.13043 \\ 0.115942a^5 - 0.0724638a^4 + \dots + 0.927536a - 1.13043 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.159420a^5 - 0.0579710a^4 + \dots + 0.608696a - 0.971014 \\ 0.00483092a^5 - 0.0724638a^4 + \dots - 0.183575a + 0.314010 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1 \\ -1 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.0289855a^5 + 0.231884a^4 + \dots + 0.231884a + 2.21739 \\ 0.159420a^5 - 0.0579710a^4 + \dots + 0.608696a - 0.971014 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.027729a^5 - 0.115942a^4 + \dots + 0.608696a - 0.971014 \\ 0.169082a^5 - 0.202899a^4 + \dots + 1.24155a - 2.34300 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.314010a^5 - 0.0434783a^4 + \dots + 1.40097a - 2.25604 \\ 0.159420a^5 - 0.0579710a^4 + \dots + 0.608696a - 0.971014 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-\frac{25}{207}a^5 \frac{13}{69}a^4 \frac{38}{69}a^3 \frac{13}{23}a^2 + \frac{122}{207}a \frac{1832}{207}a^3 \frac{13}{207}a^3 \frac{13}{207$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.00000		
a = 1.302760 + 0.525329I	1.37919 + 2.82812I	-9.31314 - 3.21164I
b = 0.425318 + 1.270190I		
u = -1.00000		
a = 1.302760 - 0.525329I	1.37919 - 2.82812I	-9.31314 + 3.21164I
b = 0.425318 - 1.270190I		
u = -1.00000		
a = -1.41724 + 0.74919I	-2.75839	-10.76463 - 0.28829I
b = -0.662359 + 0.749187I		
u = -1.00000		
a = -1.41724 - 0.74919I	-2.75839	-10.76463 + 0.28829I
b = -0.662359 - 0.749187I		
u = -1.00000		
a = 1.11448 + 1.45277I	1.37919 - 2.82812I	-2.42222 + 1.25753I
b = 0.237041 + 0.707911I		
u = -1.00000		
a = 1.11448 - 1.45277I	1.37919 + 2.82812I	-2.42222 - 1.25753I
b = 0.237041 - 0.707911I		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^6)(u^{29} - 13u^{28} + \dots + 7u - 1)$ $\cdot (u^{146} + 56u^{145} + \dots + 723369u + 21025)$
c_2	$((u-1)^6)(u^{29} + 3u^{28} + \dots - 3u - 1)(u^{146} + 4u^{145} + \dots - 333u + 145)$
c_3	$(u^{6} - 3u^{5} + \dots - 2u + 1)(u^{29} - 5u^{27} + \dots + 12u - 1)$ $\cdot (u^{146} + 4u^{145} + \dots + 2468988890u + 899654983)$
c_4	$(u^{6} - 3u^{5} + \dots - 2u + 1)(u^{29} - u^{27} + \dots - 4u^{2} - 1)$ $\cdot (u^{146} + 12u^{145} + \dots + 18u + 1)$
<i>C</i> 5	$((u+1)^6)(u^{29} - 3u^{28} + \dots - 3u + 1)(u^{146} + 4u^{145} + \dots - 333u + 145)$
c ₆	$((u^{3} + u^{2} - 1)^{2})(u^{29} + 2u^{28} + \dots + 8u^{2} - 1)$ $\cdot (u^{146} - u^{145} + \dots + 13382u - 2117)$
c_7	$u^{6}(u^{29} - u^{28} + \dots - 30u + 35)(u^{146} - 4u^{144} + \dots + 672u + 320)$
c_8, c_9	$((u^3 - u^2 + 2u - 1)^2)(u^{29} - 6u^{28} + \dots + 4u - 1)$ $\cdot (u^{146} + 5u^{145} + \dots + 24u - 1)$
c_{10}	$(u^{6} + 2u^{4} - u^{3} + 2u^{2} + 1)(u^{29} - 5u^{27} + \dots + 3u^{2} - 1)$ $\cdot (u^{146} - u^{145} + \dots + 1200u + 145)$
c_{11}	$(u^{6} + 2u^{4} - u^{3} + 2u^{2} + 1)(u^{29} - 3u^{27} + \dots + 5u^{2} - 1)$ $\cdot (u^{146} - 5u^{145} + \dots - 1206u + 145)$
c_{12}	$((u^{3} + u^{2} + 2u + 1)^{2})(u^{29} + 6u^{28} + \dots + 4u + 1)$ $\cdot (u^{146} + 5u^{145} + \dots + 24u - 1)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$((y-1)^6)(y^{29} + 7y^{28} + \dots - 25y - 1)$ $\cdot (y^{146} + 76y^{145} + \dots - 56026237661y + 442050625)$
c_2, c_5	$((y-1)^6)(y^{29} - 13y^{28} + \dots + 7y - 1)$ $\cdot (y^{146} - 56y^{145} + \dots - 723369y + 21025)$
c_3	$(y^{6} - y^{5} + 4y^{4} + 5y^{3} + 5y^{2} + 2y + 1)(y^{29} - 10y^{28} + \dots + 24y - 1)$ $\cdot (y^{146} + 48y^{145} + \dots - 8.05 \times 10^{19}y + 8.09 \times 10^{17})$
c_4	$(y^{6} - y^{5} + 4y^{4} + 5y^{3} + 5y^{2} + 2y + 1)(y^{29} - 2y^{28} + \dots - 8y - 1)$ $\cdot (y^{146} + 4y^{145} + \dots + 274y + 1)$
<i>c</i> ₆	$((y^3 - y^2 + 2y - 1)^2)(y^{29} + 22y^{28} + \dots + 16y - 1)$ $\cdot (y^{146} + 31y^{145} + \dots + 165806780y + 4481689)$
<i>c</i> ₇	$y^{6}(y^{29} + 13y^{28} + \dots + 10350y - 1225)$ $\cdot (y^{146} - 8y^{145} + \dots - 3339264y + 102400)$
c_8, c_9, c_{12}	$((y^3 + 3y^2 + 2y - 1)^2)(y^{29} + 30y^{28} + \dots - 26y - 1)$ $\cdot (y^{146} + 147y^{145} + \dots + 14y + 1)$
c_{10}	$(y^{6} + 4y^{5} + \dots + 4y + 1)(y^{29} - 10y^{28} + \dots + 6y - 1)$ $\cdot (y^{146} + 17y^{145} + \dots + 1475950y + 21025)$
c_{11}	$(y^{6} + 4y^{5} + \dots + 4y + 1)(y^{29} - 6y^{28} + \dots + 10y - 1)$ $\cdot (y^{146} - 7y^{145} + \dots - 324306y + 21025)$