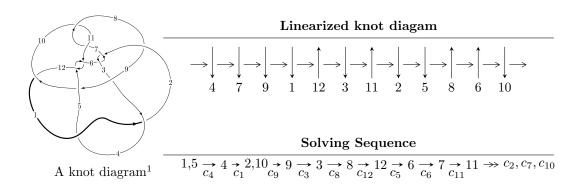
$12a_{1069} (K12a_{1069})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -3.51005 \times 10^{774} u^{158} + 1.44047 \times 10^{775} u^{157} + \dots + 1.24689 \times 10^{774} b + 4.06181 \times 10^{776}, \\ &- 3.52571 \times 10^{776} u^{158} + 1.70406 \times 10^{777} u^{157} + \dots + 5.11223 \times 10^{775} a + 8.33651 \times 10^{778}, \\ &u^{159} - 5 u^{158} + \dots - 1836 u + 41 \rangle \\ I_2^u &= \langle -1.15427 \times 10^{39} u^{41} - 3.52555 \times 10^{39} u^{40} + \dots + 2.16791 \times 10^{39} b + 3.15442 \times 10^{39}, \\ &- 1.18323 \times 10^{38} u^{41} + 1.54707 \times 10^{39} u^{40} + \dots + 3.68545 \times 10^{40} a + 4.04012 \times 10^{41}, \\ &u^{42} + 4 u^{41} + \dots + 81 u + 17 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 201 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.
$$I_1^u = \langle -3.51 \times 10^{774} u^{158} + 1.44 \times 10^{775} u^{157} + \dots + 1.25 \times 10^{774} b + 4.06 \times 10^{776}, \ -3.53 \times 10^{776} u^{158} + 1.70 \times 10^{777} u^{157} + \dots + 5.11 \times 10^{775} a + 8.34 \times 10^{778}, \ u^{159} - 5 u^{158} + \dots - 1836 u + 41 \rangle$$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_4 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 6.89661u^{158} - 33.3329u^{157} + \dots + 62395.2u - 1630.70 \\ 2.81505u^{158} - 11.5525u^{157} + \dots + 12205.5u - 325.757 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 9.71167u^{158} - 44.8855u^{157} + \dots + 74600.7u - 1956.46 \\ 2.81505u^{158} - 11.5525u^{157} + \dots + 12205.5u - 325.757 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 12.2156u^{158} - 58.2653u^{157} + \dots + 118758.u - 2988.83 \\ -0.707859u^{158} + 4.12082u^{157} + \dots + 1849.09u + 41.7737 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 9.18241u^{158} - 43.6668u^{157} + \dots + 78859.8u - 2060.49 \\ 2.35801u^{158} - 9.73562u^{157} + \dots + 10545.6u - 280.259 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -8.75638u^{158} + 42.9843u^{157} + \dots + 10545.6u - 280.259 \\ -2.38010u^{158} + 12.1412u^{157} + \dots - 20129.1u + 507.031 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 8.53022u^{158} - 41.2871u^{157} + \dots + 59998.2u - 1469.69 \\ -1.94140u^{158} + 9.07101u^{157} + \dots + 15520.2u + 397.134 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 10.0548u^{158} - 50.2105u^{157} + \dots + 95588.8u - 2414.43 \\ 0.727499u^{158} - 4.63539u^{157} + \dots + 16528.9u - 415.930 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 14.1659u^{158} - 70.1808u^{157} + \dots + 124297.u - 3139.38 \\ 0.119106u^{158} + 0.550360u^{157} + \dots + 124297.u - 3139.38 \\ 0.119106u^{158} + 0.550360u^{157} + \dots + 124297.u - 3139.38 \\ 0.119106u^{158} + 0.550360u^{157} + \dots + 1796.57u + 44.4550 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-6.97728u^{158} + 30.2719u^{157} + \cdots 100238.u + 2580.10$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{159} - 5u^{158} + \dots - 1836u + 41$
c_2, c_6	$u^{159} + 5u^{158} + \dots + 1580u + 304$
c_3	$u^{159} + u^{158} + \dots + 107562u + 9857$
c_5,c_{11}	$u^{159} - u^{158} + \dots + 76831096u + 4906757$
c_7,c_{10}	$u^{159} - 13u^{158} + \dots + 677715u + 119125$
<i>C</i> ₈	$u^{159} - u^{158} + \dots + 186934042u + 51574948$
<i>c</i> ₉	$u^{159} - 3u^{158} + \dots - 52u + 4$
c_{12}	$u^{159} - 11u^{158} + \dots + 267u - 7$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{159} + 115y^{158} + \dots + 133618y - 1681$
c_2, c_6	$y^{159} + 77y^{158} + \dots - 4109520y - 92416$
c_3	$y^{159} + 29y^{158} + \dots - 3124719192y - 97160449$
c_5,c_{11}	$y^{159} + 121y^{158} + \dots - 799516959728630y - 24076264257049$
c_7, c_{10}	$y^{159} + 89y^{158} + \dots - 542898621275y - 14190765625$
c_8	$y^{159} + 37y^{158} + \dots - 77763978165498852y - 2659975261202704$
<i>c</i> 9	$y^{159} - y^{158} + \dots + 232y - 16$
c_{12}	$y^{159} - 3y^{158} + \dots - 1021y - 49$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.983003 + 0.097556I		
a = -0.905981 + 0.783265I	-3.48952 + 3.13704I	0
b = 0.934039 - 0.432894I		
u = -0.983003 - 0.097556I		
a = -0.905981 - 0.783265I	-3.48952 - 3.13704I	0
b = 0.934039 + 0.432894I		
u = 0.262735 + 0.984218I		
a = 0.16813 + 2.67086I	-1.89883 - 9.65845I	0
b = 0.207483 - 0.022035I		
u = 0.262735 - 0.984218I		
a = 0.16813 - 2.67086I	-1.89883 + 9.65845I	0
b = 0.207483 + 0.022035I		
u = -0.072291 + 1.016920I		
a = 1.84966 - 0.36433I	-2.19049 - 2.79781I	0
b = -1.183920 - 0.349302I		
u = -0.072291 - 1.016920I		
a = 1.84966 + 0.36433I	-2.19049 + 2.79781I	0
b = -1.183920 + 0.349302I		
u = -0.652432 + 0.783430I		
a = -0.830407 + 0.000594I	-0.00445 + 3.94039I	0
b = 0.110772 - 0.942984I		
u = -0.652432 - 0.783430I		
a = -0.830407 - 0.000594I	-0.00445 - 3.94039I	0
b = 0.110772 + 0.942984I		
u = -0.950490 + 0.166511I		
a = -1.126060 + 0.618081I	-3.92600 + 3.26823I	0
b = 1.032190 - 0.478096I		
u = -0.950490 - 0.166511I		
a = -1.126060 - 0.618081I	-3.92600 - 3.26823I	0
b = 1.032190 + 0.478096I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.851291 + 0.434377I		
a = 0.311298 + 0.923022I	-5.65361 - 5.39741I	0
b = -1.042790 - 0.658033I		
u = -0.851291 - 0.434377I		
a = 0.311298 - 0.923022I	-5.65361 + 5.39741I	0
b = -1.042790 + 0.658033I		
u = 0.934381 + 0.185617I		
a = 1.184470 + 0.642059I	-1.86192 - 7.90269I	0
b = -1.090390 - 0.698765I		
u = 0.934381 - 0.185617I		
a = 1.184470 - 0.642059I	-1.86192 + 7.90269I	0
b = -1.090390 + 0.698765I		
u = -0.847254 + 0.622429I		
a = -1.63548 + 0.29444I	-3.23728 + 4.12131I	0
b = 0.869924 - 0.384480I		
u = -0.847254 - 0.622429I		
a = -1.63548 - 0.29444I	-3.23728 - 4.12131I	0
b = 0.869924 + 0.384480I		
u = 1.015730 + 0.311644I		
a = -0.456332 - 0.250158I	2.95523 - 2.92644I	0
b = 0.577816 + 0.440695I		
u = 1.015730 - 0.311644I		
a = -0.456332 + 0.250158I	2.95523 + 2.92644I	0
b = 0.577816 - 0.440695I		
u = 0.115278 + 1.067290I		
a = -1.98050 + 0.59487I	-4.30533 - 3.63876I	0
b = 1.050540 + 0.384631I		
u = 0.115278 - 1.067290I		
a = -1.98050 - 0.59487I	-4.30533 + 3.63876I	0
b = 1.050540 - 0.384631I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.413513 + 0.992313I		
a = -0.057299 - 0.888608I	-1.34325 + 1.67571I	0
b = 0.337087 - 0.064058I		
u = -0.413513 - 0.992313I		
a = -0.057299 + 0.888608I	-1.34325 - 1.67571I	0
b = 0.337087 + 0.064058I		
u = 0.921357 + 0.023903I		
a = -1.206310 - 0.280219I	1.17655 - 2.63113I	0
b = 0.754672 + 0.729094I		
u = 0.921357 - 0.023903I		
a = -1.206310 + 0.280219I	1.17655 + 2.63113I	0
b = 0.754672 - 0.729094I		
u = -0.568235 + 0.923405I		
a = 2.16017 + 0.32915I	-4.76772 + 1.69228I	0
b = -0.833918 + 0.365907I		
u = -0.568235 - 0.923405I		
a = 2.16017 - 0.32915I	-4.76772 - 1.69228I	0
b = -0.833918 - 0.365907I		
u = -0.783936 + 0.763202I		
a = -1.043350 - 0.257920I	-2.77404 + 2.12200I	0
b = 0.652172 + 0.119959I		
u = -0.783936 - 0.763202I		
a = -1.043350 + 0.257920I	-2.77404 - 2.12200I	0
b = 0.652172 - 0.119959I		
u = -0.095068 + 1.101760I		
a = -0.804842 + 0.168058I	2.15146 + 1.17756I	0
b = 1.10857 + 1.09401I		
u = -0.095068 - 1.101760I		
a = -0.804842 - 0.168058I	2.15146 - 1.17756I	0
b = 1.10857 - 1.09401I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.275780 + 1.079820I		
a = -0.284380 + 0.013054I	4.15676 - 1.83454I	0
b = 1.43790 - 0.36118I		
u = 0.275780 - 1.079820I		
a = -0.284380 - 0.013054I	4.15676 + 1.83454I	0
b = 1.43790 + 0.36118I		
u = 0.137011 + 1.109380I		
a = 0.829175 + 0.017328I	2.76013 - 5.49964I	0
b = -1.80619 + 0.82016I		
u = 0.137011 - 1.109380I		
a = 0.829175 - 0.017328I	2.76013 + 5.49964I	0
b = -1.80619 - 0.82016I		
u = 0.333959 + 1.067410I		
a = -1.122490 + 0.566095I	-5.85781 - 5.61332I	0
b = 1.32230 + 1.26257I		
u = 0.333959 - 1.067410I		
a = -1.122490 - 0.566095I	-5.85781 + 5.61332I	0
b = 1.32230 - 1.26257I		
u = 0.109084 + 1.121110I		
a = 1.025720 - 0.430618I	2.49323 - 2.69223I	0
b = -1.082320 - 0.873258I		
u = 0.109084 - 1.121110I		
a = 1.025720 + 0.430618I	2.49323 + 2.69223I	0
b = -1.082320 + 0.873258I		
u = -0.438082 + 1.045600I		
a = 1.025350 + 0.431480I	-3.71389 + 10.11860I	0
b = -1.25068 + 1.43317I		
u = -0.438082 - 1.045600I		
a = 1.025350 - 0.431480I	-3.71389 - 10.11860I	0
b = -1.25068 - 1.43317I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.014654 + 1.139180I		
a = -0.562738 + 0.315991I	3.22415 + 0.73688I	0
b = 0.564706 + 1.116770I		
u = 0.014654 - 1.139180I		
a = -0.562738 - 0.315991I	3.22415 - 0.73688I	0
b = 0.564706 - 1.116770I		
u = 0.308295 + 1.096870I		
a = 0.52699 - 1.40288I	1.18819 - 6.98145I	0
b = -0.485566 - 0.753443I		
u = 0.308295 - 1.096870I		
a = 0.52699 + 1.40288I	1.18819 + 6.98145I	0
b = -0.485566 + 0.753443I		
u = -0.001128 + 1.140600I		
a = -0.582365 - 0.382519I	5.93599 + 0.51307I	0
b = 1.61446 - 1.64283I		
u = -0.001128 - 1.140600I		
a = -0.582365 + 0.382519I	5.93599 - 0.51307I	0
b = 1.61446 + 1.64283I		
u = -0.424052 + 1.062030I		
a = -0.458241 - 0.851448I	-1.19827 + 2.83973I	0
b = 0.408574 - 0.585436I		
u = -0.424052 - 1.062030I		
a = -0.458241 + 0.851448I	-1.19827 - 2.83973I	0
b = 0.408574 + 0.585436I		
u = 1.146040 + 0.106327I		
a = -1.021420 - 0.625931I	-5.0798 - 14.2322I	0
b = 1.023560 + 0.708859I		
u = 1.146040 - 0.106327I		
a = -1.021420 + 0.625931I	-5.0798 + 14.2322I	0
b = 1.023560 - 0.708859I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.175515 + 0.818846I		
a = -1.49084 + 0.98958I	-2.65407 + 3.80739I	0
b = -0.362976 + 0.223371I		
u = -0.175515 - 0.818846I		
a = -1.49084 - 0.98958I	-2.65407 - 3.80739I	0
b = -0.362976 - 0.223371I		
u = -1.163510 + 0.077092I		
a = 1.077740 - 0.553936I	-7.60337 + 7.20007I	0
b = -0.963438 + 0.632912I		
u = -1.163510 - 0.077092I		
a = 1.077740 + 0.553936I	-7.60337 - 7.20007I	0
b = -0.963438 - 0.632912I		
u = -0.091768 + 1.179150I		
a = 1.46092 + 1.48732I	0.68628 + 8.86779I	0
b = -0.587165 + 0.834068I		
u = -0.091768 - 1.179150I		
a = 1.46092 - 1.48732I	0.68628 - 8.86779I	0
b = -0.587165 - 0.834068I		
u = 0.041123 + 1.184510I		
a = -0.06731 - 1.55543I	4.14378 + 0.96316I	0
b = -0.022792 - 1.314180I		
u = 0.041123 - 1.184510I		
a = -0.06731 + 1.55543I	4.14378 - 0.96316I	0
b = -0.022792 + 1.314180I		
u = 0.164864 + 1.174420I		
a = -0.210654 + 0.060628I	0.64915 - 10.18830I	0
b = 1.12081 - 2.09509I		
u = 0.164864 - 1.174420I		
a = -0.210654 - 0.060628I	0.64915 + 10.18830I	0
b = 1.12081 + 2.09509I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.788660 + 0.106997I		
a = 1.033770 + 0.690716I	-6.65504 + 1.64532I	0
b = -1.230520 - 0.630294I		
u = -0.788660 - 0.106997I		
a = 1.033770 - 0.690716I	-6.65504 - 1.64532I	0
b = -1.230520 + 0.630294I		
u = 0.060722 + 1.211390I		
a = 0.751741 + 0.958545I	7.43721 - 1.74221I	0
b = -0.165253 + 0.832349I		
u = 0.060722 - 1.211390I		
a = 0.751741 - 0.958545I	7.43721 + 1.74221I	0
b = -0.165253 - 0.832349I		
u = 0.003687 + 1.217980I		
a = 0.0700409 + 0.0402742I	4.75789 - 1.82912I	0
b = -0.43571 + 2.54163I		
u = 0.003687 - 1.217980I		
a = 0.0700409 - 0.0402742I	4.75789 + 1.82912I	0
b = -0.43571 - 2.54163I		
u = -0.193386 + 1.207390I		
a = 0.188401 + 0.037577I	-1.50086 + 4.59312I	0
b = -0.70698 - 1.63742I		
u = -0.193386 - 1.207390I		
a = 0.188401 - 0.037577I	-1.50086 - 4.59312I	0
b = -0.70698 + 1.63742I		
u = 0.183793 + 1.213240I		
a = 0.907044 - 0.142688I	2.90680 - 1.42079I	0
b = -1.98948 - 0.42433I		
u = 0.183793 - 1.213240I		
a = 0.907044 + 0.142688I	2.90680 + 1.42079I	0
b = -1.98948 + 0.42433I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.627098 + 0.447087I		
a = -0.32854 + 1.40130I	-7.77749 + 1.91968I	0
b = 1.026920 - 0.606499I		
u = 0.627098 - 0.447087I		
a = -0.32854 - 1.40130I	-7.77749 - 1.91968I	0
b = 1.026920 + 0.606499I		
u = -0.141977 + 1.221860I		
a = -1.346330 - 0.415106I	5.04712 + 5.26418I	0
b = 0.543036 - 0.570651I		
u = -0.141977 - 1.221860I		
a = -1.346330 + 0.415106I	5.04712 - 5.26418I	0
b = 0.543036 + 0.570651I		
u = 0.205971 + 0.738308I		
a = 1.274430 - 0.591253I	0.331400 - 0.769003I	0
b = -0.271927 - 1.170190I		
u = 0.205971 - 0.738308I		
a = 1.274430 + 0.591253I	0.331400 + 0.769003I	0
b = -0.271927 + 1.170190I		
u = 0.305069 + 1.197710I		
a = -0.995342 + 0.829799I	-5.04299 - 6.15443I	0
b = 1.11872 + 1.27000I		
u = 0.305069 - 1.197710I		
a = -0.995342 - 0.829799I	-5.04299 + 6.15443I	0
b = 1.11872 - 1.27000I		
u = -1.173300 + 0.393749I		
a = -0.692357 + 0.098145I	-3.07709 + 2.26890I	0
b = 0.654865 - 0.086175I		
u = -1.173300 - 0.393749I		
a = -0.692357 - 0.098145I	-3.07709 - 2.26890I	0
b = 0.654865 + 0.086175I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.839621 + 0.918614I		
a = 0.129052 - 0.621999I	0.40893 + 2.34033I	0
b = -0.495009 + 0.268867I		
u = 0.839621 - 0.918614I		
a = 0.129052 + 0.621999I	0.40893 - 2.34033I	0
b = -0.495009 - 0.268867I		
u = 0.175189 + 1.246850I		
a = -0.862744 - 1.003070I	2.85087 - 4.08721I	0
b = -0.140349 - 0.100770I		
u = 0.175189 - 1.246850I		
a = -0.862744 + 1.003070I	2.85087 + 4.08721I	0
b = -0.140349 + 0.100770I		
u = -0.067340 + 1.270330I		
a = 0.408550 + 0.069827I	4.29299 + 2.61263I	0
b = -1.02840 + 1.27400I		
u = -0.067340 - 1.270330I		
a = 0.408550 - 0.069827I	4.29299 - 2.61263I	0
b = -1.02840 - 1.27400I		
u = -0.397277 + 1.212520I		
a = 0.817384 + 0.679351I	-3.24632 + 2.67324I	0
b = -1.18154 + 1.29689I		
u = -0.397277 - 1.212520I		
a = 0.817384 - 0.679351I	-3.24632 - 2.67324I	0
b = -1.18154 - 1.29689I		
u = 0.493189 + 0.516484I		
a = -2.65853 - 0.71851I	-3.11486 + 6.45315I	0
b = 0.915593 + 0.059259I		
u = 0.493189 - 0.516484I		
a = -2.65853 + 0.71851I	-3.11486 - 6.45315I	0
b = 0.915593 - 0.059259I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.092930 + 1.300000I		
a = -0.870612 - 0.111977I	3.04844 + 6.27130I	0
b = 1.96085 - 0.60001I		
u = -0.092930 - 1.300000I		
a = -0.870612 + 0.111977I	3.04844 - 6.27130I	0
b = 1.96085 + 0.60001I		
u = -0.685448		
a = 0.468053	-1.12036	0
b = -0.597021		
u = 0.638524 + 0.179656I		
a = 1.38306 + 0.75692I	0.201716 - 1.058600I	0
b = -0.468998 - 0.759543I		
u = 0.638524 - 0.179656I		
a = 1.38306 - 0.75692I	0.201716 + 1.058600I	0
b = -0.468998 + 0.759543I		
u = 1.349190 + 0.002299I		
a = 0.236669 + 0.472121I	0.56968 - 6.99452I	0
b = -0.384410 - 0.523118I		
u = 1.349190 - 0.002299I		
a = 0.236669 - 0.472121I	0.56968 + 6.99452I	0
b = -0.384410 + 0.523118I		
u = 0.623931 + 0.163788I		
a = -1.17478 + 1.22579I	-8.22040 + 2.67993I	0
b = 1.088520 - 0.784829I		
u = 0.623931 - 0.163788I		
a = -1.17478 - 1.22579I	-8.22040 - 2.67993I	0
b = 1.088520 + 0.784829I		
u = -0.321401 + 1.319470I		
a = 0.681363 - 0.509348I	0.52301 + 1.73785I	0
b = 0.0567607 + 0.0911619I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.321401 - 1.319470I		
a = 0.681363 + 0.509348I	0.52301 - 1.73785I	0
b = 0.0567607 - 0.0911619I		
u = 0.554273 + 0.320207I		
a = 1.57099 - 0.15035I	-1.10054 + 3.56270I	0
b = -0.860666 + 0.543631I		
u = 0.554273 - 0.320207I		
a = 1.57099 + 0.15035I	-1.10054 - 3.56270I	0
b = -0.860666 - 0.543631I		
u = 0.415920 + 1.306080I		
a = 1.153440 - 0.436132I	4.47440 - 5.26538I	0
b = -0.97988 - 1.02084I		
u = 0.415920 - 1.306080I		
a = 1.153440 + 0.436132I	4.47440 + 5.26538I	0
b = -0.97988 + 1.02084I		
u = -0.392121 + 0.458186I		
a = 1.93038 + 1.72825I	-5.79139 + 2.57763I	0
b = -0.217180 - 0.544416I		
u = -0.392121 - 0.458186I		
a = 1.93038 - 1.72825I	-5.79139 - 2.57763I	0
b = -0.217180 + 0.544416I		
u = 0.498152 + 1.314960I		
a = -1.203800 + 0.678645I	$\int 5.24891 - 7.76605I$	0
b = 0.889094 + 0.878136I		
u = 0.498152 - 1.314960I		
a = -1.203800 - 0.678645I	$\int 5.24891 + 7.76605I$	0
b = 0.889094 - 0.878136I		
u = 0.585696 + 0.036722I		
a = 1.47684 + 1.80006I	-0.90081 + 1.24163I	0
b = -0.980896 - 0.162976I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.585696 - 0.036722I		
a = 1.47684 - 1.80006I	-0.90081 - 1.24163I	0
b = -0.980896 + 0.162976I		
u = -0.068886 + 0.576147I		
a = 1.70741 + 2.63697I	-5.84260 + 2.58738I	0
b = 0.129075 - 0.386641I		
u = -0.068886 - 0.576147I		
a = 1.70741 - 2.63697I	-5.84260 - 2.58738I	0
b = 0.129075 + 0.386641I		
u = -0.66516 + 1.27037I		
a = 0.479731 - 0.091818I	1.45416 + 2.12787I	0
b = -0.327478 + 1.014060I		
u = -0.66516 - 1.27037I		
a = 0.479731 + 0.091818I	1.45416 - 2.12787I	0
b = -0.327478 - 1.014060I		
u = -0.40090 + 1.37697I		
a = 0.651150 + 0.196026I	3.54829 + 4.04462I	0
b = -0.781934 + 0.978337I		
u = -0.40090 - 1.37697I		
a = 0.651150 - 0.196026I	3.54829 - 4.04462I	0
b = -0.781934 - 0.978337I		
u = 0.42828 + 1.38045I		
a = 0.986656 - 0.485942I	3.01513 - 12.78290I	0
b = -1.28510 - 1.20208I		
u = 0.42828 - 1.38045I		
a = 0.986656 + 0.485942I	3.01513 + 12.78290I	0
b = -1.28510 + 1.20208I		
u = -0.45030 + 1.38547I		
a = -0.946219 - 0.390744I	0.90900 + 8.31060I	0
b = 1.31288 - 1.02610I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.45030 - 1.38547I		
a = -0.946219 + 0.390744I	0.90900 - 8.31060I	0
b = 1.31288 + 1.02610I		
u = -0.48041 + 1.37776I		
a = -0.975494 - 0.279077I	1.16979 + 8.39778I	0
b = 1.26991 - 0.97916I		
u = -0.48041 - 1.37776I		
a = -0.975494 + 0.279077I	1.16979 - 8.39778I	0
b = 1.26991 + 0.97916I		
u = 0.44758 + 1.39307I		
a = -0.751781 + 0.296963I	8.08346 - 8.06603I	0
b = 0.791040 + 1.125350I		
u = 0.44758 - 1.39307I		
a = -0.751781 - 0.296963I	8.08346 + 8.06603I	0
b = 0.791040 - 1.125350I		
u = 0.38990 + 1.43821I		
a = -0.730918 + 0.084514I	6.36186 + 0.98726I	0
b = 0.613687 + 0.897211I		
u = 0.38990 - 1.43821I		
a = -0.730918 - 0.084514I	6.36186 - 0.98726I	0
b = 0.613687 - 0.897211I		
u = -0.53639 + 1.39454I		
a = 1.115380 + 0.437471I	-3.00880 + 13.13970I	0
b = -1.19992 + 1.00998I		
u = -0.53639 - 1.39454I		
a = 1.115380 - 0.437471I	-3.00880 - 13.13970I	0
b = -1.19992 - 1.00998I		
u = 0.52415 + 1.40394I		
a = -1.075370 + 0.419853I	-0.3631 - 20.0880I	0
b = 1.23933 + 1.14077I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.52415 - 1.40394I		
a = -1.075370 - 0.419853I	-0.3631 + 20.0880I	0
b = 1.23933 - 1.14077I		
u = 0.78386 + 1.29449I		
a = -0.368549 - 0.250869I	2.18628 - 4.71388I	0
b = -0.029000 + 0.866927I		
u = 0.78386 - 1.29449I		
a = -0.368549 + 0.250869I	2.18628 + 4.71388I	0
b = -0.029000 - 0.866927I		
u = 0.56334 + 1.40577I		
a = 0.858617 - 0.116384I	5.1032 - 13.4075I	0
b = -0.798105 - 1.152220I		
u = 0.56334 - 1.40577I		
a = 0.858617 + 0.116384I	5.1032 + 13.4075I	0
b = -0.798105 + 1.152220I		
u = -0.53614 + 1.42235I		
a = -0.832917 - 0.189352I	2.14861 + 8.38014I	0
b = 0.930177 - 0.916480I		
u = -0.53614 - 1.42235I		
a = -0.832917 + 0.189352I	2.14861 - 8.38014I	0
b = 0.930177 + 0.916480I		
u = 0.55182 + 1.43665I		
a = 0.702511 - 0.178622I	6.93660 - 4.06539I	0
b = -0.542462 - 0.679018I		
u = 0.55182 - 1.43665I		
a = 0.702511 + 0.178622I	6.93660 + 4.06539I	0
b = -0.542462 + 0.679018I		
u = -0.24583 + 1.53378I		
a = 0.096647 + 0.152461I	-1.57240 + 5.29281I	0
b = -0.841106 + 0.024861I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.24583 - 1.53378I		
a = 0.096647 - 0.152461I	-1.57240 - 5.29281I	0
b = -0.841106 - 0.024861I		
u = -0.07347 + 1.57793I		
a = -0.0055723 + 0.0748554I	-2.50325 + 0.52259I	0
b = 0.512308 - 0.529277I		
u = -0.07347 - 1.57793I		
a = -0.0055723 - 0.0748554I	-2.50325 - 0.52259I	0
b = 0.512308 + 0.529277I		
u = 0.69484 + 1.49428I		
a = 0.1163650 - 0.0367404I	4.39139 - 3.08591I	0
b = 0.058594 - 0.519606I		
u = 0.69484 - 1.49428I		
a = 0.1163650 + 0.0367404I	4.39139 + 3.08591I	0
b = 0.058594 + 0.519606I		
u = 0.078235 + 0.330652I		
a = -2.00415 - 2.43245I	0.58397 + 4.12730I	-3.12752 + 0.I
b = -0.463036 - 0.698113I		
u = 0.078235 - 0.330652I		
a = -2.00415 + 2.43245I	0.58397 - 4.12730I	-3.12752 + 0.I
b = -0.463036 + 0.698113I		
u = -1.07505 + 1.35317I		
a = 0.342857 + 0.157488I	-3.76179 - 0.02034I	0
b = -0.451365 - 0.017632I		
u = -1.07505 - 1.35317I		
a = 0.342857 - 0.157488I	-3.76179 + 0.02034I	0
b = -0.451365 + 0.017632I		
u = 0.238884 + 0.124762I		
a = 0.63081 - 2.67236I	-0.148131 + 1.207840I	-2.19870 - 5.17018I
b = -0.290491 + 0.487440I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.238884 - 0.124762I		
a = 0.63081 + 2.67236I	-0.148131 - 1.207840I	-2.19870 + 5.17018I
b = -0.290491 - 0.487440I		
u = 0.166621 + 0.185800I		
a = 0.95638 + 2.22791I	3.45674 - 0.87795I	1.86658 + 1.01871I
b = 0.616862 + 0.760616I		
u = 0.166621 - 0.185800I		
a = 0.95638 - 2.22791I	3.45674 + 0.87795I	1.86658 - 1.01871I
b = 0.616862 - 0.760616I		
u = 0.96925 + 1.47982I		
a = -0.093239 + 0.316891I	-1.35274 + 7.26986I	0
b = 0.372785 - 0.219387I		
u = 0.96925 - 1.47982I		
a = -0.093239 - 0.316891I	-1.35274 - 7.26986I	0
b = 0.372785 + 0.219387I		
u = 0.172385 + 0.012383I		
a = -6.09281 + 2.71249I	-2.62528 + 8.53698I	-7.49126 - 6.37559I
b = 0.090425 + 1.186450I		
u = 0.172385 - 0.012383I		
a = -6.09281 - 2.71249I	-2.62528 - 8.53698I	-7.49126 + 6.37559I
b = 0.090425 - 1.186450I		
u = 0.1057590 + 0.0737803I		
a = 5.55307 - 3.26489I	0.99976 - 1.55017I	-12.8866 + 6.4508I
b = -0.261151 + 1.329370I		
u = 0.1057590 - 0.0737803I		
a = 5.55307 + 3.26489I	0.99976 + 1.55017I	-12.8866 - 6.4508I
b = -0.261151 - 1.329370I		

II.
$$I_2^u = \langle -1.15 \times 10^{39} u^{41} - 3.53 \times 10^{39} u^{40} + \dots + 2.17 \times 10^{39} b + 3.15 \times 10^{39}, \ -1.18 \times 10^{38} u^{41} + 1.55 \times 10^{39} u^{40} + \dots + 3.69 \times 10^{40} a + 4.04 \times 10^{41}, \ u^{42} + 4u^{41} + \dots + 81u + 17 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{10} = \begin{pmatrix} 0.00321054u^{41} - 0.0419777u^{40} + \cdots - 43.8946u - 10.9624 \\ 0.532436u^{41} + 1.62624u^{40} + \cdots - 6.55696u - 1.45505 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.535647u^{41} + 1.58426u^{40} + \cdots - 50.4515u - 12.4174 \\ 0.532436u^{41} + 1.62624u^{40} + \cdots - 6.55696u - 1.45505 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.720897u^{41} + 3.79303u^{40} + \cdots + 116.849u + 28.6336 \\ 0.434780u^{41} + 1.97591u^{40} + \cdots + 8.41708u - 0.570204 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.440941u^{41} + 1.55946u^{40} + \cdots - 28.2727u - 7.63176 \\ 0.461395u^{41} + 1.48776u^{40} + \cdots - 1.66983u - 0.222298 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1.67765u^{41} + 6.12142u^{40} + \cdots + 107.858u + 13.8181 \\ -0.176665u^{41} - 0.879023u^{40} + \cdots - 40.1965u - 8.08224 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0267821u^{41} - 1.22935u^{40} + \cdots - 167.678u - 45.0412 \\ -0.228990u^{41} - 0.809988u^{40} + \cdots - 3.01893u + 1.21038 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.0121322u^{41} - 1.14435u^{40} + \cdots - 115.093u - 25.0341 \\ 0.130482u^{41} + 0.00364144u^{40} + \cdots - 22.9016u - 5.43090 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -1.32410u^{41} - 5.01900u^{40} + \cdots - 75.9670u - 13.5258 \\ 0.183475u^{41} + 0.778658u^{40} + \cdots + 34.7395u + 8.44363 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $0.146197u^{41} 0.324938u^{40} + \cdots 276.613u 73.7912$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{42} - 4u^{41} + \dots - 81u + 17$
c_2	$u^{42} + 11u^{40} + \dots + 2u + 1$
c_3	$u^{42} + 11u^{40} + \dots + 11u + 7$
c_4	$u^{42} + 4u^{41} + \dots + 81u + 17$
<i>C</i> ₅	$u^{42} + 17u^{40} + \dots - 29u + 7$
	$u^{42} + 11u^{40} + \dots - 2u + 1$
	$u^{42} + 14u^{41} + \dots + 6u + 1$
c ₈	$u^{42} + 5u^{40} + \dots - 18u + 52$
<i>c</i> ₉	$u^{42} - 2u^{41} + \dots - 2u + 1$
c_{10}	$u^{42} - 14u^{41} + \dots - 6u + 1$
c_{11}	$u^{42} + 17u^{40} + \dots + 29u + 7$
c_{12}	$u^{42} + 4u^{41} + \dots - 2u + 1$
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(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{42} + 32y^{41} + \dots + 5033y + 289$
c_2, c_6	$y^{42} + 22y^{41} + \dots + 36y + 1$
c_3	$y^{42} + 22y^{41} + \dots + 831y + 49$
c_5, c_{11}	$y^{42} + 34y^{41} + \dots + 1525y + 49$
c_7, c_{10}	$y^{42} + 22y^{41} + \dots + 34y + 1$
c ₈	$y^{42} + 10y^{41} + \dots + 17252y + 2704$
<i>c</i> ₉	$y^{42} + 4y^{41} + \dots - 4y + 1$
c_{12}	$y^{42} - 6y^{41} + \dots - 24y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.177507 + 1.038360I		
a = -0.53302 + 1.71536I	-0.95356 - 9.33719I	-2.51720 + 7.45962I
b = 0.083694 + 1.176670I		
u = 0.177507 - 1.038360I		
a = -0.53302 - 1.71536I	-0.95356 + 9.33719I	-2.51720 - 7.45962I
b = 0.083694 - 1.176670I		
u = 0.415273 + 0.843469I		
a = 0.622887 - 0.460957I	0.94304 - 5.21125I	-3.09219 + 7.08610I
b = 0.525152 - 0.624112I		
u = 0.415273 - 0.843469I		
a = 0.622887 + 0.460957I	0.94304 + 5.21125I	-3.09219 - 7.08610I
b = 0.525152 + 0.624112I		
u = -0.877495 + 0.325029I		
a = -1.28210 + 0.79585I	-3.77128 + 3.72501I	-14.8385 - 7.3153I
b = 0.942760 - 0.345368I		
u = -0.877495 - 0.325029I		
a = -1.28210 - 0.79585I	-3.77128 - 3.72501I	-14.8385 + 7.3153I
b = 0.942760 + 0.345368I		
u = -0.455701 + 0.974672I		
a = -0.641482 - 0.358792I	0.08759 + 2.04022I	-4.88431 - 2.95356I
b = 0.095292 - 1.155930I		
u = -0.455701 - 0.974672I		
a = -0.641482 + 0.358792I	0.08759 - 2.04022I	-4.88431 + 2.95356I
b = 0.095292 + 1.155930I		
u = 0.897026 + 0.019644I		
a = 0.994690 - 0.227604I	2.00876 + 2.22004I	-1.28204 - 1.88845I
b = -0.653506 + 0.593956I		
u = 0.897026 - 0.019644I		
a = 0.994690 + 0.227604I	2.00876 - 2.22004I	-1.28204 + 1.88845I
b = -0.653506 - 0.593956I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.192699 + 1.112400I		
a = 0.722423 + 0.030492I	4.91016 - 1.83612I	5.58844 + 4.38656I
b = -1.72294 - 0.16805I		
u = 0.192699 - 1.112400I		
a = 0.722423 - 0.030492I	4.91016 + 1.83612I	5.58844 - 4.38656I
b = -1.72294 + 0.16805I		
u = 0.000907 + 1.157010I		
a = -0.202101 - 1.150900I	3.65086 - 1.55590I	-4.60753 + 5.05925I
b = 0.39397 - 1.70704I		
u = 0.000907 - 1.157010I		
a = -0.202101 + 1.150900I	3.65086 + 1.55590I	-4.60753 - 5.05925I
b = 0.39397 + 1.70704I		
u = -0.276679 + 1.156370I		
a = 1.005910 + 0.755285I	-5.01608 + 5.53547I	0
b = -1.19122 + 1.32546I		
u = -0.276679 - 1.156370I		
a = 1.005910 - 0.755285I	-5.01608 - 5.53547I	0
b = -1.19122 - 1.32546I		
u = 0.055611 + 1.192060I		
a = 0.019376 + 0.254234I	5.88067 - 0.30931I	4.94345 + 3.26765I
b = -0.65828 + 1.83295I		
u = 0.055611 - 1.192060I		
a = 0.019376 - 0.254234I	5.88067 + 0.30931I	4.94345 - 3.26765I
b = -0.65828 - 1.83295I		
u = -0.298591 + 0.732730I		
a = 2.77350 + 0.84337I	-5.89545 + 3.57429I	-11.92200 - 7.20922I
b = -0.762797 + 0.459269I		
u = -0.298591 - 0.732730I		
a = 2.77350 - 0.84337I	-5.89545 - 3.57429I	-11.92200 + 7.20922I
b = -0.762797 - 0.459269I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.091394 + 1.230230I		
a = -0.877968 - 0.325600I	3.88386 + 4.33701I	04.25214I
b = 1.43775 - 0.29240I		
u = -0.091394 - 1.230230I		
a = -0.877968 + 0.325600I	3.88386 - 4.33701I	0. + 4.25214I
b = 1.43775 + 0.29240I		
u = -0.952541 + 0.820825I		
a = -0.866623 - 0.338357I	-2.63199 + 2.64152I	0 11.34211I
b = 0.539863 - 0.023823I		
u = -0.952541 - 0.820825I		
a = -0.866623 + 0.338357I	-2.63199 - 2.64152I	0. + 11.34211I
b = 0.539863 + 0.023823I		
u = 0.634034 + 1.118800I		
a = -0.282550 + 0.453543I	-1.09907 + 6.94051I	0
b = 0.021041 - 0.378934I		
u = 0.634034 - 1.118800I		
a = -0.282550 - 0.453543I	-1.09907 - 6.94051I	0
b = 0.021041 + 0.378934I		
u = -0.419292 + 0.477419I		
a = -2.54201 + 1.21412I	-3.86598 + 3.59042I	-11.71501 - 4.15721I
b = 0.898914 - 0.190619I		
u = -0.419292 - 0.477419I		
a = -2.54201 - 1.21412I	-3.86598 - 3.59042I	-11.71501 + 4.15721I
b = 0.898914 + 0.190619I		
u = -0.531644 + 0.339676I		
a = 0.51338 + 1.61819I	-7.57639 - 2.39812I	-2.01915 + 5.58226I
b = -1.050620 - 0.697940I		
u = -0.531644 - 0.339676I		
a = 0.51338 - 1.61819I	-7.57639 + 2.39812I	-2.01915 - 5.58226I
b = -1.050620 + 0.697940I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.485808 + 1.317800I		
a = 1.082370 - 0.607471I	6.03124 - 7.26421I	0
b = -0.874758 - 0.894649I		
u = 0.485808 - 1.317800I		
a = 1.082370 + 0.607471I	6.03124 + 7.26421I	0
b = -0.874758 + 0.894649I		
u = -0.64017 + 1.32694I		
a = 0.379230 - 0.116595I	1.24930 + 3.20001I	0
b = -0.334455 + 0.899017I		
u = -0.64017 - 1.32694I		
a = 0.379230 + 0.116595I	1.24930 - 3.20001I	0
b = -0.334455 - 0.899017I		
u = -0.45557 + 1.40673I		
a = -0.936812 - 0.252613I	1.41752 + 8.70993I	0
b = 1.35678 - 0.95016I		
u = -0.45557 - 1.40673I		
a = -0.936812 + 0.252613I	1.41752 - 8.70993I	0
b = 1.35678 + 0.95016I		
u = 0.169557 + 0.453872I		
a = 0.576472 - 1.255610I	1.48316 + 1.29777I	1.313603 + 0.490451I
b = 0.201562 + 0.961033I		
u = 0.169557 - 0.453872I		
a = 0.576472 + 1.255610I	1.48316 - 1.29777I	1.313603 - 0.490451I
b = 0.201562 - 0.961033I		
u = -0.82853 + 1.32612I		
a = 0.434282 + 0.294845I	-3.54732 + 0.07871I	0
b = -0.309225 - 0.051261I		
u = -0.82853 - 1.32612I		
a = 0.434282 - 0.294845I	-3.54732 - 0.07871I	0
b = -0.309225 + 0.051261I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.79918 + 1.49522I		
a = -0.253977 + 0.006076I	4.45589 - 3.26144I	0
b = 0.061027 + 0.501617I		
u = 0.79918 - 1.49522I		
a = -0.253977 - 0.006076I	4.45589 + 3.26144I	0
b = 0.061027 - 0.501617I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{42} - 4u^{41} + \dots - 81u + 17)(u^{159} - 5u^{158} + \dots - 1836u + 41) $
c_2	$(u^{42} + 11u^{40} + \dots + 2u + 1)(u^{159} + 5u^{158} + \dots + 1580u + 304)$
c_3	$(u^{42} + 11u^{40} + \dots + 11u + 7)(u^{159} + u^{158} + \dots + 107562u + 9857)$
c_4	$(u^{42} + 4u^{41} + \dots + 81u + 17)(u^{159} - 5u^{158} + \dots - 1836u + 41)$
c_5	$(u^{42} + 17u^{40} + \dots - 29u + 7)$ $\cdot (u^{159} - u^{158} + \dots + 76831096u + 4906757)$
c_6	$(u^{42} + 11u^{40} + \dots - 2u + 1)(u^{159} + 5u^{158} + \dots + 1580u + 304)$
C ₇	$ (u^{42} + 14u^{41} + \dots + 6u + 1)(u^{159} - 13u^{158} + \dots + 677715u + 119125) $
c_8	$(u^{42} + 5u^{40} + \dots - 18u + 52)$ $\cdot (u^{159} - u^{158} + \dots + 186934042u + 51574948)$
c_9	$(u^{42} - 2u^{41} + \dots - 2u + 1)(u^{159} - 3u^{158} + \dots - 52u + 4)$
c_{10}	$(u^{42} - 14u^{41} + \dots - 6u + 1)(u^{159} - 13u^{158} + \dots + 677715u + 119125)$
c_{11}	$(u^{42} + 17u^{40} + \dots + 29u + 7)$ $\cdot (u^{159} - u^{158} + \dots + 76831096u + 4906757)$
c_{12}	$(u^{42} + 4u^{41} + \dots - 2u + 1)(u^{159} - 11u^{158} + \dots + 267u - 7)$ 31

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$(y^{42} + 32y^{41} + \dots + 5033y + 289)$ $\cdot (y^{159} + 115y^{158} + \dots + 133618y - 1681)$
c_2, c_6	$(y^{42} + 22y^{41} + \dots + 36y + 1)$ $\cdot (y^{159} + 77y^{158} + \dots - 4109520y - 92416)$
c_3	$(y^{42} + 22y^{41} + \dots + 831y + 49)$ $\cdot (y^{159} + 29y^{158} + \dots - 3124719192y - 97160449)$
c_5,c_{11}	$(y^{42} + 34y^{41} + \dots + 1525y + 49)$ $\cdot (y^{159} + 121y^{158} + \dots - 799516959728630y - 24076264257049)$
c_7, c_{10}	$(y^{42} + 22y^{41} + \dots + 34y + 1)$ $\cdot (y^{159} + 89y^{158} + \dots - 542898621275y - 14190765625)$
c_8	$(y^{42} + 10y^{41} + \dots + 17252y + 2704)$ $\cdot (y^{159} + 37y^{158} + \dots - 77763978165498852y - 2659975261202704)$
c_9	$(y^{42} + 4y^{41} + \dots - 4y + 1)(y^{159} - y^{158} + \dots + 232y - 16)$
c_{12}	$(y^{42} - 6y^{41} + \dots - 24y + 1)(y^{159} - 3y^{158} + \dots - 1021y - 49)$