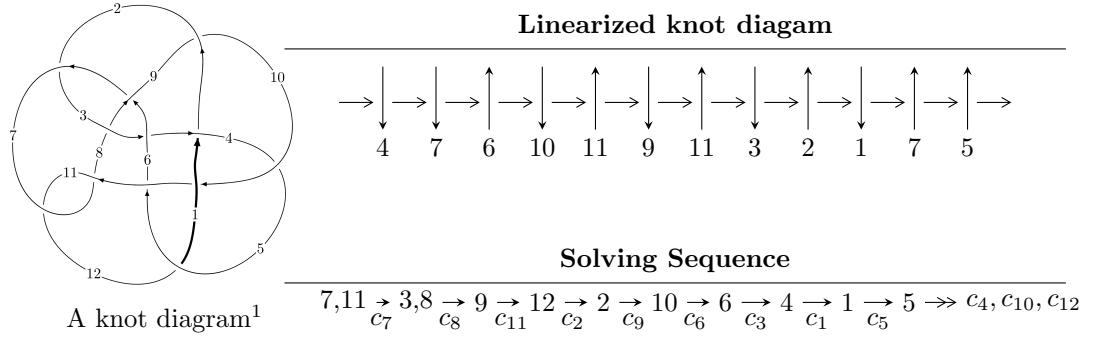


$12n_{0842}$ ($K12n_{0842}$)



Ideals for irreducible components² of X_{par}

$$\begin{aligned}
 I_1^u = & \langle -1.56702 \times 10^{964} u^{129} - 2.52936 \times 10^{964} u^{128} + \dots + 1.37131 \times 10^{968} b - 1.84550 \times 10^{968}, \\
 & - 1.75107 \times 10^{969} u^{129} - 3.48341 \times 10^{969} u^{128} + \dots + 1.77489 \times 10^{972} a - 2.48142 \times 10^{973}, \\
 & u^{130} + 2u^{129} + \dots + 23095u + 1849 \rangle \\
 I_2^u = & \langle -2.40523 \times 10^{66} u^{39} - 2.81645 \times 10^{66} u^{38} + \dots + 8.08698 \times 10^{65} b + 1.18620 \times 10^{65}, \\
 & - 1.39184 \times 10^{67} u^{39} + 1.04230 \times 10^{65} u^{38} + \dots + 5.66089 \times 10^{66} a - 7.79024 \times 10^{67}, u^{40} + u^{39} + \dots + 2u -
 \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 170 representations.

¹The image of knot diagram is generated by the software “**Draw programme**” developed by Andrew Bartholomew(<http://www.layer8.co.uk/math/draw/index.htm#Running-draw>), where we modified some parts for our purpose(<https://github.com/CATsTAILs/LinksPainter>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

$$\text{I. } I_1^u = \langle -1.57 \times 10^{964} u^{129} - 2.53 \times 10^{964} u^{128} + \dots + 1.37 \times 10^{968} b - 1.85 \times 10^{968}, -1.75 \times 10^{969} u^{129} - 3.48 \times 10^{969} u^{128} + \dots + 1.77 \times 10^{972} a - 2.48 \times 10^{973}, u^{130} + 2u^{129} + \dots + 23095u + 1849 \rangle$$

(i) **Arc colorings**

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.000986581u^{129} + 0.00196261u^{128} + \dots - 75.4998u + 13.9808 \\ 0.000114272u^{129} + 0.000184449u^{128} + \dots + 12.5203u + 1.34580 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.00244202u^{129} + 0.00442555u^{128} + \dots + 289.065u + 25.9338 \\ 0.0000496807u^{129} + 0.000118695u^{128} + \dots - 8.68282u - 1.28144 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.00110085u^{129} + 0.00214706u^{128} + \dots - 62.9795u + 15.3265 \\ 0.000114272u^{129} + 0.000184449u^{128} + \dots + 12.5203u + 1.34580 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.00244447u^{129} - 0.00474242u^{128} + \dots - 104.893u - 1.82635 \\ 0.000201784u^{129} + 0.000412550u^{128} + \dots - 8.41360u + 0.410828 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.00215601u^{129} + 0.00414580u^{128} + \dots + 132.106u + 13.8909 \\ -0.000105157u^{129} - 0.000218653u^{128} + \dots + 6.69702u - 0.156529 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.000284206u^{129} - 0.000694296u^{128} + \dots - 49.4204u + 7.08012 \\ 0.0000830600u^{129} + 0.000168496u^{128} + \dots - 5.78510u + 0.0521690 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.000984849u^{129} - 0.00185266u^{128} + \dots + 36.5137u + 10.3433 \\ 0.000124562u^{129} + 0.000262122u^{128} + \dots - 2.40189u + 0.361956 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.00215601u^{129} + 0.00414580u^{128} + \dots + 132.106u + 13.8909 \\ -0.0000495668u^{129} - 0.000106951u^{128} + \dots + 6.54918u + 0.150793 \end{pmatrix}$$

(ii) **Obstruction class** = -1

(iii) **Cusp Shapes** = $0.0000782799u^{129} + 0.000547387u^{128} + \dots - 133.386u - 2.54081$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{130} + 14u^{129} + \cdots - 159u + 7$
c_2	$u^{130} - u^{128} + \cdots - 576070405u + 33881141$
c_3	$u^{130} - 7u^{129} + \cdots + 2725074u + 389673$
c_4	$7(7u^{130} - 25u^{129} + \cdots + 12u + 1)$
c_5	$7(7u^{130} + 3u^{129} + \cdots + 4.93951 \times 10^{10}u + 2.28860 \times 10^9)$
c_6	$u^{130} - 8u^{129} + \cdots - 205u + 7$
c_7, c_{11}	$u^{130} + 2u^{129} + \cdots + 23095u + 1849$
c_8	$7(7u^{130} - 13u^{129} + \cdots - 2351020u + 743993)$
c_9	$7(7u^{130} - 34u^{129} + \cdots - 829543u - 30137)$
c_{10}	$u^{130} - 9u^{129} + \cdots - 4538u + 203$
c_{12}	$u^{130} + 11u^{129} + \cdots - 3169857u - 257957$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{130} - 72y^{129} + \cdots + 493y + 49$
c_2	$y^{130} - 2y^{129} + \cdots + 55704648955559029y + 1147931715461881$
c_3	$y^{130} - 39y^{129} + \cdots - 9840220879212y + 151845046929$
c_4	$49(49y^{130} + 145y^{129} + \cdots - 314y + 1)$
c_5	$49(49y^{130} - 2207y^{129} + \cdots - 2.91410 \times 10^{20}y + 5.23771 \times 10^{18})$
c_6	$y^{130} - 28y^{129} + \cdots - 5709y + 49$
c_7, c_{11}	$y^{130} - 96y^{129} + \cdots + 11750551y + 3418801$
c_8	$49(49y^{130} + 503y^{129} + \cdots + 5.44033 \times 10^{13}y + 5.53526 \times 10^{11})$
c_9	$49(49y^{130} + 846y^{129} + \cdots - 1.31838 \times 10^{11}y + 9.08239 \times 10^8)$
c_{10}	$y^{130} + 17y^{129} + \cdots - 739638y + 41209$
c_{12}	$y^{130} - 87y^{129} + \cdots - 1836787174947y + 66541813849$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.192985 + 0.987978I$		
$a = 0.685018 + 0.699135I$	$-3.85583 + 1.98974I$	0
$b = 0.105204 + 0.268994I$		
$u = -0.192985 - 0.987978I$		
$a = 0.685018 - 0.699135I$	$-3.85583 - 1.98974I$	0
$b = 0.105204 - 0.268994I$		
$u = -1.005400 + 0.084588I$		
$a = -0.424630 - 0.999332I$	$3.44265 + 3.95990I$	0
$b = 1.48759 + 0.21000I$		
$u = -1.005400 - 0.084588I$		
$a = -0.424630 + 0.999332I$	$3.44265 - 3.95990I$	0
$b = 1.48759 - 0.21000I$		
$u = 0.982913 + 0.237730I$		
$a = 0.93751 + 1.73569I$	$1.02277 + 1.74041I$	0
$b = 0.219139 - 0.183732I$		
$u = 0.982913 - 0.237730I$		
$a = 0.93751 - 1.73569I$	$1.02277 - 1.74041I$	0
$b = 0.219139 + 0.183732I$		
$u = 1.014750 + 0.047548I$		
$a = -1.32944 + 0.61104I$	$1.73990 - 1.31024I$	0
$b = -0.746568 - 0.155076I$		
$u = 1.014750 - 0.047548I$		
$a = -1.32944 - 0.61104I$	$1.73990 + 1.31024I$	0
$b = -0.746568 + 0.155076I$		
$u = -0.456859 + 0.862239I$		
$a = -1.287040 - 0.504597I$	$-2.38775 - 6.44558I$	0
$b = -0.161070 - 1.105620I$		
$u = -0.456859 - 0.862239I$		
$a = -1.287040 + 0.504597I$	$-2.38775 + 6.44558I$	0
$b = -0.161070 + 1.105620I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.054500 + 0.153337I$		
$a = 0.82634 + 1.70303I$	$-0.55217 - 6.03667I$	0
$b = -1.051070 - 0.662151I$		
$u = -1.054500 - 0.153337I$		
$a = 0.82634 - 1.70303I$	$-0.55217 + 6.03667I$	0
$b = -1.051070 + 0.662151I$		
$u = -1.068270 + 0.127319I$		
$a = -1.02778 + 1.14025I$	$5.94390 - 0.70377I$	0
$b = 1.26558 - 0.67228I$		
$u = -1.068270 - 0.127319I$		
$a = -1.02778 - 1.14025I$	$5.94390 + 0.70377I$	0
$b = 1.26558 + 0.67228I$		
$u = 0.014444 + 1.078290I$		
$a = 0.087527 + 0.601798I$	$-3.00735 + 1.68026I$	0
$b = -0.337332 + 0.607074I$		
$u = 0.014444 - 1.078290I$		
$a = 0.087527 - 0.601798I$	$-3.00735 - 1.68026I$	0
$b = -0.337332 - 0.607074I$		
$u = -0.709835 + 0.837220I$		
$a = 0.298449 + 0.444055I$	$-1.60973 + 3.04444I$	0
$b = -1.53836 + 1.08055I$		
$u = -0.709835 - 0.837220I$		
$a = 0.298449 - 0.444055I$	$-1.60973 - 3.04444I$	0
$b = -1.53836 - 1.08055I$		
$u = 0.827680 + 0.118176I$		
$a = 1.062830 + 0.393846I$	$1.72153 + 1.62554I$	0
$b = 0.578328 - 0.404761I$		
$u = 0.827680 - 0.118176I$		
$a = 1.062830 - 0.393846I$	$1.72153 - 1.62554I$	0
$b = 0.578328 + 0.404761I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.743058 + 0.335777I$		
$a = 0.985320 + 0.201047I$	$1.91444 - 1.66346I$	0
$b = 0.826366 + 0.263227I$		
$u = 0.743058 - 0.335777I$		
$a = 0.985320 - 0.201047I$	$1.91444 + 1.66346I$	0
$b = 0.826366 - 0.263227I$		
$u = -1.215770 + 0.024957I$		
$a = 0.25672 - 1.77363I$	$0.14747 + 3.30778I$	0
$b = -0.22505 + 2.26759I$		
$u = -1.215770 - 0.024957I$		
$a = 0.25672 + 1.77363I$	$0.14747 - 3.30778I$	0
$b = -0.22505 - 2.26759I$		
$u = -1.167050 + 0.344814I$		
$a = 0.13166 + 1.69916I$	$0.35070 - 5.13307I$	0
$b = -0.91643 - 1.29410I$		
$u = -1.167050 - 0.344814I$		
$a = 0.13166 - 1.69916I$	$0.35070 + 5.13307I$	0
$b = -0.91643 + 1.29410I$		
$u = 1.224050 + 0.090932I$		
$a = 0.605553 - 1.229960I$	$-1.48112 + 0.30722I$	0
$b = -0.716654 + 0.669539I$		
$u = 1.224050 - 0.090932I$		
$a = 0.605553 + 1.229960I$	$-1.48112 - 0.30722I$	0
$b = -0.716654 - 0.669539I$		
$u = 1.157080 + 0.430857I$		
$a = -0.859745 - 0.586018I$	$1.69689 + 1.05048I$	0
$b = -0.091286 + 0.906175I$		
$u = 1.157080 - 0.430857I$		
$a = -0.859745 + 0.586018I$	$1.69689 - 1.05048I$	0
$b = -0.091286 - 0.906175I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.380261 + 1.187040I$		
$a = 0.151652 + 0.050180I$	$2.16508 + 4.58319I$	0
$b = -0.080254 - 0.787124I$		
$u = -0.380261 - 1.187040I$		
$a = 0.151652 - 0.050180I$	$2.16508 - 4.58319I$	0
$b = -0.080254 + 0.787124I$		
$u = 0.125690 + 1.245530I$		
$a = 0.075130 + 0.127210I$	$-0.14578 + 4.97050I$	0
$b = 0.559438 - 0.639859I$		
$u = 0.125690 - 1.245530I$		
$a = 0.075130 - 0.127210I$	$-0.14578 - 4.97050I$	0
$b = 0.559438 + 0.639859I$		
$u = 0.116619 + 0.707618I$		
$a = 0.469121 + 0.190155I$	$2.34750 + 2.69810I$	0
$b = 0.783447 - 0.632126I$		
$u = 0.116619 - 0.707618I$		
$a = 0.469121 - 0.190155I$	$2.34750 - 2.69810I$	0
$b = 0.783447 + 0.632126I$		
$u = 1.241780 + 0.360670I$		
$a = -0.779193 - 0.660654I$	$5.19171 + 2.01313I$	0
$b = 1.015850 + 0.879906I$		
$u = 1.241780 - 0.360670I$		
$a = -0.779193 + 0.660654I$	$5.19171 - 2.01313I$	0
$b = 1.015850 - 0.879906I$		
$u = -0.395761 + 1.238470I$		
$a = -1.67747 + 0.73618I$	$-4.94996 - 4.30206I$	0
$b = -1.80089 - 0.24631I$		
$u = -0.395761 - 1.238470I$		
$a = -1.67747 - 0.73618I$	$-4.94996 + 4.30206I$	0
$b = -1.80089 + 0.24631I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.343954 + 0.587904I$		
$a = 0.350168 + 0.631190I$	$-0.00798 + 1.65365I$	0
$b = 0.024698 + 0.500867I$		
$u = 0.343954 - 0.587904I$		
$a = 0.350168 - 0.631190I$	$-0.00798 - 1.65365I$	0
$b = 0.024698 - 0.500867I$		
$u = 0.227794 + 1.302420I$		
$a = 1.71330 + 0.30061I$	$-4.09401 + 5.43279I$	0
$b = 1.306730 - 0.536616I$		
$u = 0.227794 - 1.302420I$		
$a = 1.71330 - 0.30061I$	$-4.09401 - 5.43279I$	0
$b = 1.306730 + 0.536616I$		
$u = 1.274050 + 0.385225I$		
$a = 0.763387 + 0.450871I$	$1.88232 + 2.39507I$	0
$b = 0.933879 - 0.338802I$		
$u = 1.274050 - 0.385225I$		
$a = 0.763387 - 0.450871I$	$1.88232 - 2.39507I$	0
$b = 0.933879 + 0.338802I$		
$u = -1.328210 + 0.172913I$		
$a = -0.606992 + 1.142170I$	$5.21037 + 2.98126I$	0
$b = 0.069657 - 0.613093I$		
$u = -1.328210 - 0.172913I$		
$a = -0.606992 - 1.142170I$	$5.21037 - 2.98126I$	0
$b = 0.069657 + 0.613093I$		
$u = -1.329800 + 0.240985I$		
$a = 0.112373 - 1.343230I$	$0.56148 - 6.02464I$	0
$b = 0.279489 + 0.426407I$		
$u = -1.329800 - 0.240985I$		
$a = 0.112373 + 1.343230I$	$0.56148 + 6.02464I$	0
$b = 0.279489 - 0.426407I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.194490 + 0.634915I$		
$a = 0.38794 - 1.63509I$	$5.30423 - 7.34352I$	0
$b = 1.20321 + 1.03064I$		
$u = -1.194490 - 0.634915I$		
$a = 0.38794 + 1.63509I$	$5.30423 + 7.34352I$	0
$b = 1.20321 - 1.03064I$		
$u = 0.402837 + 0.497183I$		
$a = 0.320224 + 0.850805I$	$-1.38050 + 5.00016I$	$0. - 9.49193I$
$b = 1.244390 - 0.364572I$		
$u = 0.402837 - 0.497183I$		
$a = 0.320224 - 0.850805I$	$-1.38050 - 5.00016I$	$0. + 9.49193I$
$b = 1.244390 + 0.364572I$		
$u = 1.372130 + 0.150804I$		
$a = 0.60945 - 1.47521I$	$4.20289 + 8.62109I$	0
$b = -1.89823 + 1.75461I$		
$u = 1.372130 - 0.150804I$		
$a = 0.60945 + 1.47521I$	$4.20289 - 8.62109I$	0
$b = -1.89823 - 1.75461I$		
$u = -1.400810 + 0.159049I$		
$a = -0.409440 - 1.210060I$	$-0.26679 - 9.38703I$	0
$b = 0.606970 + 1.237310I$		
$u = -1.400810 - 0.159049I$		
$a = -0.409440 + 1.210060I$	$-0.26679 + 9.38703I$	0
$b = 0.606970 - 1.237310I$		
$u = -1.42668$		
$a = 0.718436$	-0.613003	0
$b = -2.57271$		
$u = -1.30320 + 0.59303I$		
$a = -0.511695 + 0.877445I$	$4.96024 - 4.96838I$	0
$b = -0.100888 - 0.985304I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.30320 - 0.59303I$		
$a = -0.511695 - 0.877445I$	$4.96024 + 4.96838I$	0
$b = -0.100888 + 0.985304I$		
$u = -0.567677$		
$a = 0.490107$	-1.77907	-5.18620
$b = -1.14200$		
$u = 0.52532 + 1.34589I$		
$a = 0.473497 + 0.007024I$	$0.39548 + 4.33374I$	0
$b = 0.444301 + 0.616379I$		
$u = 0.52532 - 1.34589I$		
$a = 0.473497 - 0.007024I$	$0.39548 - 4.33374I$	0
$b = 0.444301 - 0.616379I$		
$u = -1.41981 + 0.26766I$		
$a = 0.649756 - 0.389768I$	$2.20480 - 10.11460I$	0
$b = 1.121740 + 0.311792I$		
$u = -1.41981 - 0.26766I$		
$a = 0.649756 + 0.389768I$	$2.20480 + 10.11460I$	0
$b = 1.121740 - 0.311792I$		
$u = -1.43085 + 0.21833I$		
$a = -0.30087 + 1.40417I$	$5.80080 - 4.43061I$	0
$b = 0.08741 - 2.07515I$		
$u = -1.43085 - 0.21833I$		
$a = -0.30087 - 1.40417I$	$5.80080 + 4.43061I$	0
$b = 0.08741 + 2.07515I$		
$u = 1.37685 + 0.48002I$		
$a = -0.221068 - 0.863688I$	$4.52979 + 1.33796I$	0
$b = -0.218612 + 0.767436I$		
$u = 1.37685 - 0.48002I$		
$a = -0.221068 + 0.863688I$	$4.52979 - 1.33796I$	0
$b = -0.218612 - 0.767436I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.349486 + 0.409207I$	$-1.91537 + 1.81462I$	$-5.84498 - 1.75098I$
$a = 1.331860 + 0.024556I$		
$b = -0.946034 + 0.653814I$		
$u = -0.349486 - 0.409207I$	$-1.91537 - 1.81462I$	$-5.84498 + 1.75098I$
$a = 1.331860 - 0.024556I$		
$b = -0.946034 - 0.653814I$		
$u = -1.40938 + 0.50729I$	$7.06208 - 1.74086I$	0
$a = -0.487450 + 0.765803I$		
$b = 0.049376 - 0.835322I$		
$u = -1.40938 - 0.50729I$	$7.06208 + 1.74086I$	0
$a = -0.487450 - 0.765803I$		
$b = 0.049376 + 0.835322I$		
$u = -1.42183 + 0.48861I$	$4.87320 - 10.83730I$	0
$a = 0.026092 - 1.397180I$		
$b = 0.95940 + 1.11035I$		
$u = -1.42183 - 0.48861I$	$4.87320 + 10.83730I$	0
$a = 0.026092 + 1.397180I$		
$b = 0.95940 - 1.11035I$		
$u = 1.49455 + 0.17001I$	$2.65451 + 8.61052I$	0
$a = 0.941153 + 0.356400I$		
$b = -2.80546 - 1.08221I$		
$u = 1.49455 - 0.17001I$	$2.65451 - 8.61052I$	0
$a = 0.941153 - 0.356400I$		
$b = -2.80546 + 1.08221I$		
$u = -0.28877 + 1.47869I$	$-1.14226 + 3.62625I$	0
$a = 0.120770 + 0.123015I$		
$b = -0.63944 + 1.43069I$		
$u = -0.28877 - 1.47869I$	$-1.14226 - 3.62625I$	0
$a = 0.120770 - 0.123015I$		
$b = -0.63944 - 1.43069I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.38195 + 0.60353I$		
$a = -0.367064 - 0.593723I$	$5.55086 + 2.73527I$	0
$b = 0.016286 + 0.724244I$		
$u = 1.38195 - 0.60353I$		
$a = -0.367064 + 0.593723I$	$5.55086 - 2.73527I$	0
$b = 0.016286 - 0.724244I$		
$u = 1.53490$		
$a = -0.158963$	1.52550	0
$b = 1.84837$		
$u = 1.55054 + 0.06643I$		
$a = -0.259009 + 1.059910I$	$3.98425 + 2.69852I$	0
$b = 0.73666 - 1.69771I$		
$u = 1.55054 - 0.06643I$		
$a = -0.259009 - 1.059910I$	$3.98425 - 2.69852I$	0
$b = 0.73666 + 1.69771I$		
$u = 0.328062 + 0.289528I$		
$a = 1.93053 + 0.24387I$	$0.65266 + 1.63325I$	$2.68692 - 2.53683I$
$b = 0.236215 + 0.458228I$		
$u = 0.328062 - 0.289528I$		
$a = 1.93053 - 0.24387I$	$0.65266 - 1.63325I$	$2.68692 + 2.53683I$
$b = 0.236215 - 0.458228I$		
$u = 1.56708$		
$a = -0.189228$	1.52572	0
$b = 1.93649$		
$u = -1.54300 + 0.34814I$		
$a = 0.068942 + 1.277000I$	$7.44054 - 9.96841I$	0
$b = -0.302820 - 1.262260I$		
$u = -1.54300 - 0.34814I$		
$a = 0.068942 - 1.277000I$	$7.44054 + 9.96841I$	0
$b = -0.302820 + 1.262260I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.364665 + 0.181754I$		
$a = 0.447705 + 0.540748I$	$-4.95344 + 0.19459I$	$6.08544 - 3.99455I$
$b = -1.202540 + 0.294643I$		
$u = 0.364665 - 0.181754I$		
$a = 0.447705 - 0.540748I$	$-4.95344 - 0.19459I$	$6.08544 + 3.99455I$
$b = -1.202540 - 0.294643I$		
$u = -0.357344 + 0.145937I$		
$a = 0.356206 + 0.571643I$	$-4.38967 + 8.38798I$	$5.79740 + 1.22412I$
$b = 1.182780 - 0.524412I$		
$u = -0.357344 - 0.145937I$		
$a = 0.356206 - 0.571643I$	$-4.38967 - 8.38798I$	$5.79740 - 1.22412I$
$b = 1.182780 + 0.524412I$		
$u = 0.08064 + 1.61582I$		
$a = -0.0950039 - 0.0340072I$	$-7.81593 + 4.25557I$	0
$b = -0.274149 - 0.272116I$		
$u = 0.08064 - 1.61582I$		
$a = -0.0950039 + 0.0340072I$	$-7.81593 - 4.25557I$	0
$b = -0.274149 + 0.272116I$		
$u = 0.26673 + 1.59979I$		
$a = -0.0224344 - 0.0574521I$	$0.00932 - 12.04250I$	0
$b = -0.72872 - 1.36664I$		
$u = 0.26673 - 1.59979I$		
$a = -0.0224344 + 0.0574521I$	$0.00932 + 12.04250I$	0
$b = -0.72872 + 1.36664I$		
$u = -1.42052 + 0.83025I$		
$a = 0.346397 - 0.701857I$	$5.08035 - 12.10800I$	0
$b = 0.617617 + 0.761177I$		
$u = -1.42052 - 0.83025I$		
$a = 0.346397 + 0.701857I$	$5.08035 + 12.10800I$	0
$b = 0.617617 - 0.761177I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.60096 + 0.41206I$		
$a = -0.035198 - 1.209550I$	$8.41929 + 1.32210I$	0
$b = -0.55990 + 1.37417I$		
$u = 1.60096 - 0.41206I$		
$a = -0.035198 + 1.209550I$	$8.41929 - 1.32210I$	0
$b = -0.55990 - 1.37417I$		
$u = 1.46173 + 0.78033I$		
$a = 0.365604 + 0.701236I$	$3.83692 + 3.90710I$	0
$b = 0.748972 - 0.841081I$		
$u = 1.46173 - 0.78033I$		
$a = 0.365604 - 0.701236I$	$3.83692 - 3.90710I$	0
$b = 0.748972 + 0.841081I$		
$u = -1.67712$		
$a = -0.248186$	-0.349305	0
$b = -1.61998$		
$u = -0.214366 + 0.220787I$		
$a = 3.26112 - 2.94875I$	$-4.09858 + 3.90895I$	$-5.63870 - 4.54668I$
$b = 1.163770 + 0.077840I$		
$u = -0.214366 - 0.220787I$		
$a = 3.26112 + 2.94875I$	$-4.09858 - 3.90895I$	$-5.63870 + 4.54668I$
$b = 1.163770 - 0.077840I$		
$u = 0.11947 + 1.69081I$		
$a = 0.0937528 + 0.0110013I$	$-0.64061 - 1.41285I$	0
$b = 0.462723 + 1.325290I$		
$u = 0.11947 - 1.69081I$		
$a = 0.0937528 - 0.0110013I$	$-0.64061 + 1.41285I$	0
$b = 0.462723 - 1.325290I$		
$u = 1.52387 + 0.75590I$		
$a = -0.280745 - 1.234770I$	$4.1549 + 20.2245I$	0
$b = -1.26006 + 1.41583I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.52387 - 0.75590I$		
$a = -0.280745 + 1.234770I$	$4.1549 - 20.2245I$	0
$b = -1.26006 - 1.41583I$		
$u = -1.53333 + 0.74990I$		
$a = -0.283174 + 1.225620I$	$2.91524 - 11.64700I$	0
$b = -1.22937 - 1.56540I$		
$u = -1.53333 - 0.74990I$		
$a = -0.283174 - 1.225620I$	$2.91524 + 11.64700I$	0
$b = -1.22937 + 1.56540I$		
$u = -0.260160 + 0.125254I$		
$a = 2.24562 - 1.13763I$	$-1.04836 + 3.32741I$	$1.24329 - 3.26995I$
$b = 0.086350 + 0.861525I$		
$u = -0.260160 - 0.125254I$		
$a = 2.24562 + 1.13763I$	$-1.04836 - 3.32741I$	$1.24329 + 3.26995I$
$b = 0.086350 - 0.861525I$		
$u = 1.51956 + 0.84351I$		
$a = 0.367911 + 1.152150I$	$3.30447 + 10.82410I$	0
$b = 1.23263 - 1.26490I$		
$u = 1.51956 - 0.84351I$		
$a = 0.367911 - 1.152150I$	$3.30447 - 10.82410I$	0
$b = 1.23263 + 1.26490I$		
$u = 1.68007 + 0.45365I$		
$a = 0.007095 + 1.105530I$	$5.51727 + 9.38680I$	0
$b = 0.95314 - 1.35298I$		
$u = 1.68007 - 0.45365I$		
$a = 0.007095 - 1.105530I$	$5.51727 - 9.38680I$	0
$b = 0.95314 + 1.35298I$		
$u = 0.246123 + 0.005560I$		
$a = 6.60826 + 2.07111I$	$-0.24013 - 7.66843I$	$-2.90470 + 9.94586I$
$b = -1.081240 - 0.595420I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.246123 - 0.005560I$	$-0.24013 + 7.66843I$	$-2.90470 - 9.94586I$
$a = 6.60826 - 2.07111I$		
$b = -1.081240 + 0.595420I$		
$u = 1.73414 + 0.44560I$		
$a = 0.170113 + 0.795594I$	$5.26878 + 3.50302I$	0
$b = 0.57746 - 1.64576I$		
$u = 1.73414 - 0.44560I$		
$a = 0.170113 - 0.795594I$	$5.26878 - 3.50302I$	0
$b = 0.57746 + 1.64576I$		
$u = -1.77431 + 0.26416I$		
$a = 0.201090 - 0.875909I$	$7.52045 + 4.51180I$	0
$b = 0.10396 + 1.61456I$		
$u = -1.77431 - 0.26416I$		
$a = 0.201090 + 0.875909I$	$7.52045 - 4.51180I$	0
$b = 0.10396 - 1.61456I$		
$u = -0.146951 + 0.063339I$		
$a = 16.0501 + 6.7068I$	$-5.28228 - 0.20426I$	$7.06027 - 2.29073I$
$b = -0.302716 + 0.864166I$		
$u = -0.146951 - 0.063339I$		
$a = 16.0501 - 6.7068I$	$-5.28228 + 0.20426I$	$7.06027 + 2.29073I$
$b = -0.302716 - 0.864166I$		
$u = -0.0026800 + 0.1179300I$		
$a = 5.5607 - 28.2192I$	$-3.42340 + 8.12985I$	$10.41804 + 6.43309I$
$b = -0.080542 - 1.019560I$		
$u = -0.0026800 - 0.1179300I$		
$a = 5.5607 + 28.2192I$	$-3.42340 - 8.12985I$	$10.41804 - 6.43309I$
$b = -0.080542 + 1.019560I$		
$u = -2.52670$		
$a = -0.0942858$	-0.402431	0
$b = -2.44028$		

II.

$$I_2^u = \langle -2.41 \times 10^{66} u^{39} - 2.82 \times 10^{66} u^{38} + \dots + 8.09 \times 10^{65} b + 1.19 \times 10^{65}, -1.39 \times 10^{67} u^{39} + 1.04 \times 10^{65} u^{38} + \dots + 5.66 \times 10^{66} a - 7.79 \times 10^{67}, u^{40} + u^{39} + \dots + 2u - 1 \rangle$$

(i) **Arc colorings**

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 2.45870u^{39} - 0.0184122u^{38} + \dots - 27.5018u + 13.7615 \\ 2.97420u^{39} + 3.48270u^{38} + \dots - 19.2058u - 0.146681 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -2.55002u^{39} - 2.83592u^{38} + \dots + 24.0835u - 4.68811 \\ -0.546160u^{39} - 0.543172u^{38} + \dots - 3.35179u + 0.405291 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 5.43290u^{39} + 3.46429u^{38} + \dots - 46.7077u + 13.6148 \\ 2.97420u^{39} + 3.48270u^{38} + \dots - 19.2058u - 0.146681 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -4.63338u^{39} - 2.81760u^{38} + \dots + 32.0659u - 11.2525 \\ -2.42174u^{39} - 2.58541u^{38} + \dots + 1.67460u - 2.14800 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 4.57440u^{39} + 5.38104u^{38} + \dots - 30.5626u + 3.29370 \\ 1.82173u^{39} + 2.41175u^{38} + \dots + 4.49594u + 0.168550 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -1.60848u^{39} - 4.20407u^{38} + \dots + 16.8447u + 10.6805 \\ -5.52043u^{39} - 6.02323u^{38} + \dots + 42.1526u - 2.77427 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 1.81620u^{39} + 1.00198u^{38} + \dots - 6.47369u + 3.86005 \\ -2.31703u^{39} - 2.12578u^{38} + \dots + 31.9391u - 2.36050 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 4.57440u^{39} + 5.38104u^{38} + \dots - 30.5626u + 3.29370 \\ 1.47615u^{39} + 1.83065u^{38} + \dots + 7.45707u + 0.975187 \end{pmatrix}$$

(ii) **Obstruction class = 1**

(iii) **Cusp Shapes** = $11.0866u^{39} + 19.1437u^{38} + \dots - 56.3405u - 45.1389$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{40} - 23u^{39} + \cdots + 10u + 1$
c_2	$u^{40} - 3u^{39} + \cdots - 42u - 49$
c_3	$u^{40} + 8u^{39} + \cdots + 125u + 25$
c_4	$7(7u^{40} + 12u^{39} + \cdots + 11u - 1)$
c_5	$7(7u^{40} + 12u^{39} + \cdots + 862u + 79)$
c_6	$u^{40} - 13u^{39} + \cdots - 78u + 7$
c_7	$u^{40} + u^{39} + \cdots + 2u - 1$
c_8	$7(7u^{40} + 10u^{39} + \cdots + 9u - 1)$
c_9	$7(7u^{40} - 11u^{39} + \cdots + 26u - 13)$
c_{10}	$u^{40} - 10u^{39} + \cdots + 71u + 7$
c_{11}	$u^{40} - u^{39} + \cdots - 2u - 1$
c_{12}	$u^{40} - 12u^{39} + \cdots + 406u + 49$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{40} - 77y^{39} + \cdots - 40y + 1$
c_2	$y^{40} - 27y^{39} + \cdots + 41552y + 2401$
c_3	$y^{40} - 12y^{39} + \cdots + 13975y + 625$
c_4	$49(49y^{40} + 220y^{39} + \cdots - 471y + 1)$
c_5	$49(49y^{40} + 612y^{39} + \cdots - 443634y + 6241)$
c_6	$y^{40} - 17y^{39} + \cdots - 302y + 49$
c_7, c_{11}	$y^{40} - 17y^{39} + \cdots + 34y + 1$
c_8	$49(49y^{40} - 842y^{39} + \cdots - 43y + 1)$
c_9	$49(49y^{40} + 873y^{39} + \cdots - 6526y + 169)$
c_{10}	$y^{40} + 4y^{39} + \cdots - 4495y + 49$
c_{12}	$y^{40} - 72y^{39} + \cdots - 35280y + 2401$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.985813 + 0.047998I$		
$a = 1.40863 + 1.55003I$	$0.81879 - 7.38277I$	$4.59353 + 7.95478I$
$b = -0.860752 - 0.979037I$		
$u = 0.985813 - 0.047998I$		
$a = 1.40863 - 1.55003I$	$0.81879 + 7.38277I$	$4.59353 - 7.95478I$
$b = -0.860752 + 0.979037I$		
$u = -0.140334 + 1.034600I$		
$a = 0.532953 + 0.635960I$	$-2.86290 + 2.38388I$	$0.74022 - 10.13995I$
$b = -0.178779 + 0.526366I$		
$u = -0.140334 - 1.034600I$		
$a = 0.532953 - 0.635960I$	$-2.86290 - 2.38388I$	$0.74022 + 10.13995I$
$b = -0.178779 - 0.526366I$		
$u = 0.270336 + 1.009650I$		
$a = 2.31571 + 0.91260I$	$-5.51622 + 4.56551I$	$-15.2487 - 6.9844I$
$b = 1.52664 - 0.01344I$		
$u = 0.270336 - 1.009650I$		
$a = 2.31571 - 0.91260I$	$-5.51622 - 4.56551I$	$-15.2487 + 6.9844I$
$b = 1.52664 + 0.01344I$		
$u = -0.900200 + 0.288577I$		
$a = 1.250680 - 0.514850I$	$1.05389 - 1.31798I$	$-4.29350 + 4.90343I$
$b = 0.357254 + 0.685349I$		
$u = -0.900200 - 0.288577I$		
$a = 1.250680 + 0.514850I$	$1.05389 + 1.31798I$	$-4.29350 - 4.90343I$
$b = 0.357254 - 0.685349I$		
$u = -1.103470 + 0.194766I$		
$a = -0.93591 + 1.46791I$	$1.21435 - 2.20942I$	$0. + 8.18325I$
$b = -0.536646 - 0.578625I$		
$u = -1.103470 - 0.194766I$		
$a = -0.93591 - 1.46791I$	$1.21435 + 2.20942I$	$0. - 8.18325I$
$b = -0.536646 + 0.578625I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.130230 + 0.172412I$		
$a = -0.903497 - 0.922720I$	$5.39290 + 0.98456I$	$1.091376 + 0.161509I$
$b = 1.232620 + 0.608134I$		
$u = 1.130230 - 0.172412I$		
$a = -0.903497 + 0.922720I$	$5.39290 - 0.98456I$	$1.091376 - 0.161509I$
$b = 1.232620 - 0.608134I$		
$u = 0.521674 + 1.065710I$		
$a = -0.168052 + 0.390847I$	$-1.60771 - 3.26575I$	$-10.4994 + 20.1595I$
$b = 1.26221 + 1.24322I$		
$u = 0.521674 - 1.065710I$		
$a = -0.168052 - 0.390847I$	$-1.60771 + 3.26575I$	$-10.4994 - 20.1595I$
$b = 1.26221 - 1.24322I$		
$u = -0.434507 + 1.121790I$		
$a = -0.430137 - 0.138212I$	$0.28364 - 3.88388I$	$1.36521 + 1.74386I$
$b = -0.059769 + 0.349551I$		
$u = -0.434507 - 1.121790I$		
$a = -0.430137 + 0.138212I$	$0.28364 + 3.88388I$	$1.36521 - 1.74386I$
$b = -0.059769 - 0.349551I$		
$u = -0.337327 + 1.233090I$		
$a = -1.69780 + 0.49564I$	$-4.16063 - 5.13415I$	$-6.36747 - 3.09799I$
$b = -1.33154 - 0.74125I$		
$u = -0.337327 - 1.233090I$		
$a = -1.69780 - 0.49564I$	$-4.16063 + 5.13415I$	$-6.36747 + 3.09799I$
$b = -1.33154 + 0.74125I$		
$u = -0.316516 + 0.520550I$		
$a = -0.46712 + 1.67089I$	$-2.32747 - 5.29189I$	$-6.87764 + 8.97663I$
$b = -1.331820 - 0.186224I$		
$u = -0.316516 - 0.520550I$		
$a = -0.46712 - 1.67089I$	$-2.32747 + 5.29189I$	$-6.87764 - 8.97663I$
$b = -1.331820 + 0.186224I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.30916 + 0.55445I$		
$a = -0.475487 + 0.613831I$	$5.30013 - 2.75882I$	0
$b = 0.215809 - 0.732916I$		
$u = -1.30916 - 0.55445I$		
$a = -0.475487 - 0.613831I$	$5.30013 + 2.75882I$	0
$b = 0.215809 + 0.732916I$		
$u = 1.41380 + 0.18507I$		
$a = 0.590885 - 0.315476I$	$3.25291 + 8.75744I$	0
$b = -2.22284 + 0.16384I$		
$u = 1.41380 - 0.18507I$		
$a = 0.590885 + 0.315476I$	$3.25291 - 8.75744I$	0
$b = -2.22284 - 0.16384I$		
$u = -0.075594 + 0.510852I$		
$a = 0.88648 + 5.00898I$	$-5.58689 - 0.25968I$	$-19.1860 + 2.0754I$
$b = -0.369451 + 0.799053I$		
$u = -0.075594 - 0.510852I$		
$a = 0.88648 - 5.00898I$	$-5.58689 + 0.25968I$	$-19.1860 - 2.0754I$
$b = -0.369451 - 0.799053I$		
$u = 0.179526 + 0.420507I$		
$a = 4.83757 - 5.63997I$	$-3.56553 + 8.28671I$	$-15.3469 - 21.7718I$
$b = -0.024623 - 1.025940I$		
$u = 0.179526 - 0.420507I$		
$a = 4.83757 + 5.63997I$	$-3.56553 - 8.28671I$	$-15.3469 + 21.7718I$
$b = -0.024623 + 1.025940I$		
$u = -0.06148 + 1.56478I$		
$a = 0.0566131 - 0.1045900I$	$-7.89437 - 4.28045I$	0
$b = 0.338591 - 0.195472I$		
$u = -0.06148 - 1.56478I$		
$a = 0.0566131 + 0.1045900I$	$-7.89437 + 4.28045I$	0
$b = 0.338591 + 0.195472I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.006801 + 0.413917I$		
$a = -0.041680 - 0.840946I$	$-5.30901 + 0.03558I$	$-13.08662 + 3.87514I$
$b = -1.137090 + 0.353354I$		
$u = 0.006801 - 0.413917I$		
$a = -0.041680 + 0.840946I$	$-5.30901 - 0.03558I$	$-13.08662 - 3.87514I$
$b = -1.137090 - 0.353354I$		
$u = 0.160986 + 0.334496I$		
$a = -0.216404 - 0.977522I$	$-4.64626 + 8.64955I$	$-10.0735 - 14.3657I$
$b = 1.076980 - 0.498814I$		
$u = 0.160986 - 0.334496I$		
$a = -0.216404 + 0.977522I$	$-4.64626 - 8.64955I$	$-10.0735 + 14.3657I$
$b = 1.076980 + 0.498814I$		
$u = 1.52801 + 0.57282I$		
$a = 0.126503 + 1.248900I$	$4.17482 + 9.89074I$	0
$b = 0.97762 - 1.25745I$		
$u = 1.52801 - 0.57282I$		
$a = 0.126503 - 1.248900I$	$4.17482 - 9.89074I$	0
$b = 0.97762 + 1.25745I$		
$u = -1.62923 + 0.38674I$		
$a = -0.210724 + 0.890348I$	$5.07142 - 3.41108I$	0
$b = -0.40963 - 1.68332I$		
$u = -1.62923 - 0.38674I$		
$a = -0.210724 - 0.890348I$	$5.07142 + 3.41108I$	0
$b = -0.40963 + 1.68332I$		
$u = 1.83581$		
$a = -0.259494$	1.32808	0
$b = 2.47431$		
$u = -2.61455$		
$a = -0.0874792$	-0.398487	0
$b = -2.52384$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{40} - 23u^{39} + \dots + 10u + 1)(u^{130} + 14u^{129} + \dots - 159u + 7)$
c_2	$(u^{40} - 3u^{39} + \dots - 42u - 49)$ $\cdot (u^{130} - u^{128} + \dots - 576070405u + 33881141)$
c_3	$(u^{40} + 8u^{39} + \dots + 125u + 25)$ $\cdot (u^{130} - 7u^{129} + \dots + 2725074u + 389673)$
c_4	$49(7u^{40} + 12u^{39} + \dots + 11u - 1)(7u^{130} - 25u^{129} + \dots + 12u + 1)$
c_5	$49(7u^{40} + 12u^{39} + \dots + 862u + 79)$ $\cdot (7u^{130} + 3u^{129} + \dots + 49395145991u + 2288603579)$
c_6	$(u^{40} - 13u^{39} + \dots - 78u + 7)(u^{130} - 8u^{129} + \dots - 205u + 7)$
c_7	$(u^{40} + u^{39} + \dots + 2u - 1)(u^{130} + 2u^{129} + \dots + 23095u + 1849)$
c_8	$49(7u^{40} + 10u^{39} + \dots + 9u - 1)$ $\cdot (7u^{130} - 13u^{129} + \dots - 2351020u + 743993)$
c_9	$49(7u^{40} - 11u^{39} + \dots + 26u - 13)$ $\cdot (7u^{130} - 34u^{129} + \dots - 829543u - 30137)$
c_{10}	$(u^{40} - 10u^{39} + \dots + 71u + 7)(u^{130} - 9u^{129} + \dots - 4538u + 203)$
c_{11}	$(u^{40} - u^{39} + \dots - 2u - 1)(u^{130} + 2u^{129} + \dots + 23095u + 1849)$
c_{12}	$(u^{40} - 12u^{39} + \dots + 406u + 49)$ $\cdot (u^{130} + 11u^{129} + \dots - \frac{1}{27}3169857u - 257957)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{40} - 77y^{39} + \dots - 40y + 1)(y^{130} - 72y^{129} + \dots + 493y + 49)$
c_2	$(y^{40} - 27y^{39} + \dots + 41552y + 2401)$ $\cdot (y^{130} - 2y^{129} + \dots + 55704648955559029y + 1147931715461881)$
c_3	$(y^{40} - 12y^{39} + \dots + 13975y + 625)$ $\cdot (y^{130} - 39y^{129} + \dots - 9840220879212y + 151845046929)$
c_4	$2401(49y^{40} + 220y^{39} + \dots - 471y + 1)$ $\cdot (49y^{130} + 145y^{129} + \dots - 314y + 1)$
c_5	$2401(49y^{40} + 612y^{39} + \dots - 443634y + 6241)$ $\cdot (49y^{130} - 2207y^{129} + \dots - 2.91 \times 10^{20}y + 5.24 \times 10^{18})$
c_6	$(y^{40} - 17y^{39} + \dots - 302y + 49)(y^{130} - 28y^{129} + \dots - 5709y + 49)$
c_7, c_{11}	$(y^{40} - 17y^{39} + \dots + 34y + 1)$ $\cdot (y^{130} - 96y^{129} + \dots + 11750551y + 3418801)$
c_8	$2401(49y^{40} - 842y^{39} + \dots - 43y + 1)$ $\cdot (49y^{130} + 503y^{129} + \dots + 54403265075498y + 553525584049)$
c_9	$2401(49y^{40} + 873y^{39} + \dots - 6526y + 169)$ $\cdot (49y^{130} + 846y^{129} + \dots - 131837763381y + 908238769)$
c_{10}	$(y^{40} + 4y^{39} + \dots - 4495y + 49)$ $\cdot (y^{130} + 17y^{129} + \dots - 739638y + 41209)$
c_{12}	$(y^{40} - 72y^{39} + \dots - 35280y + 2401)$ $\cdot (y^{130} - 87y^{129} + \dots - 1836787174947y + 66541813849)$