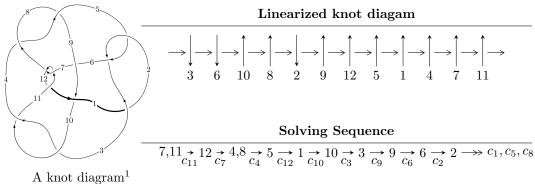
$12a_{0430} (K12a_{0430})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -226485u^{38} - 3774546u^{37} + \dots + 128b + 9282560, \\ &- 259737u^{38} - 4524309u^{37} + \dots + 128a + 21477568, \ 3u^{39} + 54u^{38} + \dots - 3328u - 256 \rangle \\ I_2^u &= \langle -2.26053 \times 10^{100}a^{15}u^5 - 8.64840 \times 10^{100}a^{14}u^5 + \dots - 6.68918 \times 10^{103}a + 2.14623 \times 10^{103}, \\ &- a^{15}u^5 - 4a^{14}u^5 + \dots + 148a - 22, \ u^6 - u^5 - u^4 + 2u^3 - u + 1 \rangle \\ I_3^u &= \langle -15u^{24} + 21u^{23} + \dots + b - 8, \ 3u^{24} - 24u^{23} + \dots + a - 14, \ 3u^{25} - 3u^{24} + \dots - 3u + 1 \rangle \end{split}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 160 representations.

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

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

$$I. \\ I_1^u = \langle -2.26 \times 10^5 u^{38} - 3.77 \times 10^6 u^{37} + \dots + 128b + 9.28 \times 10^6, \ -2.60 \times 10^5 u^{38} - 4.52 \times 10^6 u^{37} + \dots + 128a + 2.15 \times 10^7, \ 3u^{39} + 54u^{38} + \dots - 3328u - 256 \rangle$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 2029.20u^{38} + 35346.2u^{37} + \dots - 2.07355 \times 10^{6}u - 167794. \\ 1769.41u^{38} + 29488.6u^{37} + \dots - 948125.u - 72520 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 31.617u^{38} - 4854.02u^{37} + \dots - 183199.u - 16803.5 \\ 735.914u^{38} + 13795.5u^{37} + \dots - 1.40161 \times 10^{6}u - 117322 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -192.527u^{38} - 3285.52u^{37} + \dots + 155737u + 12492 \\ -103.242u^{38} - 1653.28u^{37} + \dots + 17861u + 1071 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1538.92u^{38} + 26366.7u^{37} + \dots - 1.44956 \times 10^{6}u - 117071 \\ 491.273u^{38} + 7452.33u^{37} + \dots + 335799u + 32963 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -12.5508u^{38} - 125.672u^{37} + \dots - 42277u - 3681 \\ 176.977u^{38} + 3108.84u^{37} + \dots - 197757u - 16173 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -178.898u^{38} - 3179.23u^{37} + \dots + 235641.u + 19456.5 \\ -630.586u^{38} - 10679.0u^{37} + \dots + 481986.u + 38544 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 271.324u^{38} + 4657.66u^{37} + \dots - 232931.u - 18469 \\ -293.344u^{38} - 4981.59u^{37} + \dots + 278367u + 22919 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $\frac{1755}{16}u^{38} + \frac{77211}{16}u^{37} + \dots 2255734u 193986$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$9(9u^{39} + 114u^{38} + \dots + 111616u + 4096)$
c_{2}, c_{5}	$3(3u^{39} + 48u^{38} + \dots - 480u - 64)$
c_3, c_4, c_8 c_{10}	$u^{39} + 2u^{38} + \dots + 2u - 1$
c_{6}, c_{9}	$u^{39} + 2u^{38} + \dots - 33u - 9$
c_7, c_{11}	$3(3u^{39} + 54u^{38} + \dots - 3328u - 256)$
c_{12}	$9(9u^{39} - 132u^{38} + \dots + 262144u - 65536)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing	
c_1	$81(81y^{39} + 3006y^{38} + \dots + 5.78080 \times 10^9y - 1.67772 \times 10^7)$	
c_2, c_5	$9(9y^{39} - 114y^{38} + \dots + 111616y - 4096)$	
c_3, c_4, c_8 c_{10}	$y^{39} - 26y^{38} + \dots + 52y^2 - 1$	
c_{6}, c_{9}	$y^{39} + 36y^{37} + \dots + 315y - 81$	
c_7, c_{11}	$9(9y^{39} - 132y^{38} + \dots + 262144y - 65536)$	
c_{12}	$81(81y^{39} + 2196y^{38} + \dots - 6.33508 \times 10^{10}y - 4.29497 \times 10^9)$	

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.227307 + 0.954019I		
a = 0.597619 + 0.748299I	-1.54560 + 5.89382I	0
b = 1.038240 + 0.501550I		
u = -0.227307 - 0.954019I		
a = 0.597619 - 0.748299I	-1.54560 - 5.89382I	0
b = 1.038240 - 0.501550I		
u = 0.964633 + 0.040613I		
a = 0.046717 - 0.361973I	2.24733 + 2.31700I	0
b = -0.131521 + 0.679839I		
u = 0.964633 - 0.040613I		
a = 0.046717 + 0.361973I	2.24733 - 2.31700I	0
b = -0.131521 - 0.679839I		
u = -0.372084 + 0.971347I		
a = 1.033870 + 0.676185I	5.0495 + 13.3788I	0
b = 1.38505 + 0.53905I		
u = -0.372084 - 0.971347I		
a = 1.033870 - 0.676185I	5.0495 - 13.3788I	0
b = 1.38505 - 0.53905I		
u = -0.366389 + 0.997959I		
a = -0.972711 - 0.584875I	6.51433 + 7.15268I	0
b = -1.35053 - 0.45887I		
u = -0.366389 - 0.997959I		
a = -0.972711 + 0.584875I	6.51433 - 7.15268I	0
b = -1.35053 + 0.45887I		
u = -0.756872 + 0.753122I		
a = 0.171567 - 0.831323I	-4.96051 - 3.11579I	0
b = 0.450531 - 0.558117I		
u = -0.756872 - 0.753122I		
a = 0.171567 + 0.831323I	-4.96051 + 3.11579I	0
b = 0.450531 + 0.558117I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.734478 + 0.548916I		
a = 0.333438 + 1.221500I	-1.30683 - 1.81941I	0
b = -0.148939 + 0.692095I		
u = -0.734478 - 0.548916I		
a = 0.333438 - 1.221500I	-1.30683 + 1.81941I	0
b = -0.148939 - 0.692095I		
u = -0.928656 + 0.581070I		
a = 0.840210 + 0.897302I	-0.67233 - 2.69467I	0
b = -0.107640 + 0.780975I		
u = -0.928656 - 0.581070I		
a = 0.840210 - 0.897302I	-0.67233 + 2.69467I	0
b = -0.107640 - 0.780975I		
u = -0.624790 + 0.647653I		
a = -0.042755 - 1.321680I	-2.58514 + 2.46966I	0
b = 0.185681 - 0.871131I		
u = -0.624790 - 0.647653I		
a = -0.042755 + 1.321680I	-2.58514 - 2.46966I	0
b = 0.185681 + 0.871131I		
u = -0.964236 + 0.626940I		
a = -1.015610 - 0.669350I	-1.61000 - 7.43824I	0
b = -0.044585 - 0.877355I		
u = -0.964236 - 0.626940I		
a = -1.015610 + 0.669350I	-1.61000 + 7.43824I	0
b = -0.044585 + 0.877355I		
u = -0.927448 + 0.731334I		
a = -0.603265 - 0.055544I	-4.48122 - 2.48257I	0
b = -0.328521 - 0.410615I		
u = -0.927448 - 0.731334I		
a = -0.603265 + 0.055544I	-4.48122 + 2.48257I	0
b = -0.328521 + 0.410615I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.762524 + 1.065990I		
a = 0.664275 - 0.398822I	2.59371 - 7.58190I	0
b = 1.098350 - 0.153624I		
u = -0.762524 - 1.065990I		
a = 0.664275 + 0.398822I	2.59371 + 7.58190I	0
b = 1.098350 + 0.153624I		
u = -1.185980 + 0.646068I		
a = 0.29852 + 1.74270I	7.5533 - 19.2427I	0
b = -1.48593 + 0.60763I		
u = -1.185980 - 0.646068I		
a = 0.29852 - 1.74270I	7.5533 + 19.2427I	0
b = -1.48593 - 0.60763I		
u = 1.353110 + 0.111837I		
a = 0.430891 - 0.154226I	11.2642 - 9.8374I	0
b = -1.43049 + 0.31053I		
u = 1.353110 - 0.111837I		
a = 0.430891 + 0.154226I	11.2642 + 9.8374I	0
b = -1.43049 - 0.31053I		
u = -1.196030 + 0.650742I		
a = -0.24811 - 1.65622I	9.0791 - 13.1009I	0
b = 1.45343 - 0.53779I		
u = -1.196030 - 0.650742I		
a = -0.24811 + 1.65622I	9.0791 + 13.1009I	0
b = 1.45343 + 0.53779I		
u = -1.219640 + 0.610960I		
a = 0.47514 + 1.44470I	1.42407 - 11.55540I	0
b = -1.220300 + 0.570071I		
u = -1.219640 - 0.610960I		
a = 0.47514 - 1.44470I	1.42407 + 11.55540I	0
b = -1.220300 - 0.570071I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.618970		
a = 0.307729	0.781004	13.6700
b = -0.308374		
u = 1.390700 + 0.097502I		
a = -0.412188 + 0.110529I	12.91450 - 3.41864I	0
b = 1.40725 - 0.21446I		
u = 1.390700 - 0.097502I		
a = -0.412188 - 0.110529I	12.91450 + 3.41864I	0
b = 1.40725 + 0.21446I		
u = -0.308955 + 0.457236I		
a = 0.037151 + 1.410890I	-1.54604 - 1.25973I	-0.64918 + 1.74705I
b = 0.262188 + 0.589702I		
u = -0.308955 - 0.457236I		
a = 0.037151 - 1.410890I	-1.54604 + 1.25973I	-0.64918 - 1.74705I
b = 0.262188 - 0.589702I		
u = -1.30091 + 0.66769I		
a = -0.221488 - 1.116460I	7.13968 - 7.57891I	0
b = 1.182050 - 0.297560I		
u = -1.30091 - 0.66769I		
a = -0.221488 + 1.116460I	7.13968 + 7.57891I	0
b = 1.182050 + 0.297560I		
u = -1.14163 + 1.26414I		
a = -0.317136 + 0.372699I	3.53048 - 0.08358I	0
b = -1.060120 + 0.020872I		
u = -1.14163 - 1.26414I		
a = -0.317136 - 0.372699I	3.53048 + 0.08358I	0
b = -1.060120 - 0.020872I		

II.
$$I_2^u = \langle -2.26 \times 10^{100} a^{15} u^5 - 8.65 \times 10^{100} a^{14} u^5 + \cdots - 6.69 \times 10^{103} a + 2.15 \times 10^{103}, \ -a^{15} u^5 - 4a^{14} u^5 + \cdots + 148a - 22, \ u^6 - u^5 - u^4 + 2u^3 - u + 1 \rangle$$

(i) Arc colorings

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

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

$$a_{4} = \begin{pmatrix} 0.000688597a^{15}u^5 + 0.00263445a^{14}u^5 + \dots + 2.03764a - 0.653779 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 0.00313715a^{15}u^5 - 0.00342694a^{14}u^5 + \dots + 1.99577a - 1.83014 \\ -0.00537123a^{15}u^5 - 0.00760671a^{14}u^5 + \dots + 2.66259a - 2.49184 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -0.00523647a^{15}u^5 + 0.0120349a^{14}u^5 + \dots - 0.800101a + 1.31324 \\ -0.00890304a^{15}u^5 + 0.0103711a^{14}u^5 + \dots - 1.97931a + 2.35126 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.0117502a^{15}u^5 + 0.00137900a^{14}u^5 + \dots - 2.84927a + 0.113383 \\ -0.00974387a^{15}u^5 - 0.00897497a^{14}u^5 + \dots + 0.180125a - 0.421905 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.00542664a^{15}u^5 - 0.00897497a^{14}u^5 + \dots - 1.77760a + 0.921213 \\ -0.0117791a^{15}u^5 + 0.00831537a^{14}u^5 + \dots - 1.12189a + 2.39887 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.0112446a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.0110795a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.0110795a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.0110795a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.01065496a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.0110795a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.0110795a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.0110795a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.930856a + 0.943314 \\ -0.01065496a^{15}u^5 + 0.0123645a^{14}u^5 + \dots - 0.856035a - 0.131508 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.0278817a^{15}u^5 0.0697523a^{14}u^5 + \cdots 10.0876a + 4.79726$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing	
c_1	$(u^8 + 3u^7 + 7u^6 + 10u^5 + 11u^4 + 10u^3 + 6u^2 + 4u + 1)^{12}$	
c_2, c_5	$(u^8 - u^7 - u^6 + 2u^5 + u^4 - 2u^3 + 2u - 1)^{12}$	
c_3, c_4, c_8 c_{10}	$u^{96} - u^{95} + \dots - 369170u + 47717$	
c_{6}, c_{9}	$u^{96} + 9u^{95} + \dots + 2219032u + 215401$	
c_7, c_{11}	$(u^6 - u^5 - u^4 + 2u^3 - u + 1)^{16}$	
c_{12}	$(u^6 - 3u^5 + 5u^4 - 4u^3 + 2u^2 - u + 1)^{16}$	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing	
c_1	$(y^8 + 5y^7 + 11y^6 + 6y^5 - 17y^4 - 34y^3 - 22y^2 - 4y + 1)^{12}$	
c_2, c_5	$(y^8 - 3y^7 + 7y^6 - 10y^5 + 11y^4 - 10y^3 + 6y^2 - 4y + 1)^{12}$	
c_3, c_4, c_8 c_{10}	$y^{96} - 81y^{95} + \dots - 141748367588y + 2276912089$	
c_{6}, c_{9}	$y^{96} - 33y^{95} + \dots - 549152756700y + 46397590801$	
c_7, c_{11}	$(y^6 - 3y^5 + 5y^4 - 4y^3 + 2y^2 - y + 1)^{16}$	
c_{12}	$(y^6 + y^5 + 5y^4 + 6y^2 + 3y + 1)^{16}$	

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.002190 + 0.295542I		
a = -0.131228 + 0.966452I	8.98482 + 1.65419I	17.4396 - 2.7737I
b = -1.92108 - 0.43745I		
u = -1.002190 + 0.295542I		
a = -0.920754 - 0.485414I	5.78475 + 0.20693I	14.3015 + 0.2834I
b = -0.852601 - 0.969355I		
u = -1.002190 + 0.295542I		
a = -0.072117 - 1.131480I	8.98482 - 3.50280I	17.4396 + 4.3622I
b = 1.96950 + 0.26401I		
u = -1.002190 + 0.295542I		
a = -0.284942 - 1.232200I	5.78475 - 2.05554I	14.3015 + 1.3050I
b = -0.640395 - 0.185153I		
u = -1.002190 + 0.295542I		
a = -0.970327 - 0.812295I	5.98037 - 0.92430I	9.82225 + 0.79423I
b = 1.53611 + 0.03337I		
u = -1.002190 + 0.295542I		
a = 1.180110 + 0.543505I	4.44573 + 5.51923I	12.28827 - 4.49994I
b = 0.724178 + 1.195600I		
u = -1.002190 + 0.295542I		
a = 1.329820 - 0.337134I	8.98482 - 3.50280I	17.4396 + 4.3622I
b = -1.42647 - 0.01572I		
u = -1.002190 + 0.295542I		
a = 0.96287 + 1.09375I	0.322677 - 0.924305I	7.85268 + 0.79423I
b = 0.278148 + 0.719400I		
u = -1.002190 + 0.295542I		
a = -1.49099 + 0.08573I	8.98482 + 1.65419I	17.4396 - 2.7737I
b = 1.47063 + 0.04551I		
u = -1.002190 + 0.295542I		
a = 0.38868 + 1.53392I	4.44573 - 7.36784I	12.28827 + 6.08840I
b = 0.450129 + 0.033041I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.002190 + 0.295542I		
a = 0.188568 - 0.080838I	5.98037 - 0.92430I	9.82225 + 0.79423I
b = -1.337560 - 0.341469I		
u = -1.002190 + 0.295542I		
a = -1.18748 - 1.49401I	5.78475 - 2.05554I	14.3015 + 1.3050I
b = 1.324260 - 0.484048I		
u = -1.002190 + 0.295542I		
a = 1.24714 + 1.57460I	4.44573 - 7.36784I	12.28827 + 6.08840I
b = -1.23357 + 0.71721I		
u = -1.002190 + 0.295542I		
a = 1.34882 + 1.54727I	0.322677 - 0.924305I	7.85268 + 0.79423I
b = -0.865270 + 0.191673I		
u = -1.002190 + 0.295542I		
a = -1.58649 - 1.33501I	5.78475 + 0.20693I	14.3015 + 0.2834I
b = 1.179490 + 0.070105I		
u = -1.002190 + 0.295542I		
a = 1.68445 + 1.48950I	4.44573 + 5.51923I	12.28827 - 4.49994I
b = -1.083740 - 0.172180I		
u = -1.002190 - 0.295542I		
a = -0.131228 - 0.966452I	8.98482 - 1.65419I	17.4396 + 2.7737I
b = -1.92108 + 0.43745I		
u = -1.002190 - 0.295542I		
a = -0.920754 + 0.485414I	5.78475 - 0.20693I	14.3015 - 0.2834I
b = -0.852601 + 0.969355I		
u = -1.002190 - 0.295542I		
a = -0.072117 + 1.131480I	8.98482 + 3.50280I	17.4396 - 4.3622I
b = 1.96950 - 0.26401I		
u = -1.002190 - 0.295542I		
a = -0.284942 + 1.232200I	5.78475 + 2.05554I	14.3015 - 1.3050I
b = -0.640395 + 0.185153I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.002190 - 0.295542I		
a = -0.970327 + 0.812295I	5.98037 + 0.92430I	9.82225 - 0.79423I
b = 1.53611 - 0.03337I		
u = -1.002190 - 0.295542I		
a = 1.180110 - 0.543505I	4.44573 - 5.51923I	12.28827 + 4.49994I
b = 0.724178 - 1.195600I		
u = -1.002190 - 0.295542I		
a = 1.329820 + 0.337134I	8.98482 + 3.50280I	17.4396 - 4.3622I
b = -1.42647 + 0.01572I		
u = -1.002190 - 0.295542I		
a = 0.96287 - 1.09375I	0.322677 + 0.924305I	7.85268 - 0.79423I
b = 0.278148 - 0.719400I		
u = -1.002190 - 0.295542I		
a = -1.49099 - 0.08573I	8.98482 - 1.65419I	17.4396 + 2.7737I
b = 1.47063 - 0.04551I		
u = -1.002190 - 0.295542I		
a = 0.38868 - 1.53392I	4.44573 + 7.36784I	12.28827 - 6.08840I
b = 0.450129 - 0.033041I		
u = -1.002190 - 0.295542I		
a = 0.188568 + 0.080838I	5.98037 + 0.92430I	9.82225 - 0.79423I
b = -1.337560 + 0.341469I		
u = -1.002190 - 0.295542I		
a = -1.18748 + 1.49401I	5.78475 + 2.05554I	14.3015 - 1.3050I
b = 1.324260 + 0.484048I		
u = -1.002190 - 0.295542I		
a = 1.24714 - 1.57460I	4.44573 + 7.36784I	12.28827 - 6.08840I
b = -1.23357 - 0.71721I		
u = -1.002190 - 0.295542I		
a = 1.34882 - 1.54727I	0.322677 + 0.924305I	7.85268 - 0.79423I
b = -0.865270 - 0.191673I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.002190 - 0.295542I		
a = -1.58649 + 1.33501I	5.78475 - 0.20693I	14.3015 - 0.2834I
b = 1.179490 - 0.070105I		
u = -1.002190 - 0.295542I		
a = 1.68445 - 1.48950I	4.44573 - 5.51923I	12.28827 + 4.49994I
b = -1.083740 + 0.172180I		
u = 0.428243 + 0.664531I		
a = 0.338368 - 0.856179I	0.66452 - 7.36784I	4.85484 + 6.08840I
b = 1.220680 - 0.477407I		
u = 0.428243 + 0.664531I		
a = -0.495098 + 0.691509I	2.00354 - 2.05554I	6.86806 + 1.30502I
b = -1.206330 + 0.367263I		
u = 0.428243 + 0.664531I		
a = 0.714452 - 0.421331I	2.00354 + 0.20693I	6.86806 + 0.28344I
b = -0.217102 + 0.071087I		
u = 0.428243 + 0.664531I		
a = -0.512773 - 0.573888I	2.00354 + 0.20693I	6.86806 + 0.28344I
b = -1.044990 - 0.150675I		
u = 0.428243 + 0.664531I		
a = 0.475180 + 1.143100I	0.66452 + 5.51923I	4.85484 - 4.49994I
b = 1.061230 + 0.489637I		
u = 0.428243 + 0.664531I		
a = -0.691630 - 0.012427I	0.66452 + 5.51923I	4.85484 - 4.49994I
b = 0.370476 - 0.414858I		
u = 0.428243 + 0.664531I		
a = -1.290680 + 0.422211I	2.19916 - 0.92430I	2.38882 + 0.79423I
b = -1.230390 + 0.212303I		
u = 0.428243 + 0.664531I		
a = -0.021113 - 0.454124I	-3.45853 - 0.92430I	0.419245 + 0.794226I
b = 0.928150 - 0.448492I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.428243 + 0.664531I		
a = -0.45184 + 1.50268I	-3.45853 - 0.92430I	0.419245 + 0.794226I
b = 0.445858 + 0.853680I		
u = 0.428243 + 0.664531I		
a = -1.42972 + 0.79073I	5.20361 - 3.50280I	10.00621 + 4.36218I
b = -1.201220 - 0.073274I		
u = 0.428243 + 0.664531I		
a = 1.45063 - 0.77681I	2.19916 - 0.92430I	2.38882 + 0.79423I
b = 0.765736 - 0.349328I		
u = 0.428243 + 0.664531I		
a = 1.48375 - 0.73194I	5.20361 + 1.65419I	10.00621 - 2.77373I
b = 1.090890 + 0.140025I		
u = 0.428243 + 0.664531I		
a = 1.10763 - 1.50141I	2.00354 - 2.05554I	6.86806 + 1.30502I
b = 0.103004 - 0.985223I		
u = 0.428243 + 0.664531I		
a = -1.04266 + 1.76681I	0.66452 - 7.36784I	4.85484 + 6.08840I
b = 0.022518 + 1.191450I		
u = 0.428243 + 0.664531I		
a = -2.01816 + 0.39141I	5.20361 + 1.65419I	10.00621 - 2.77373I
b = -1.42014 + 0.57718I		
u = 0.428243 + 0.664531I		
a = 2.03871 - 0.61553I	5.20361 - 3.50280I	10.00621 + 4.36218I
b = 1.31381 - 0.70782I		
u = 0.428243 - 0.664531I		
a = 0.338368 + 0.856179I	0.66452 + 7.36784I	4.85484 - 6.08840I
b = 1.220680 + 0.477407I		
u = 0.428243 - 0.664531I		
a = -0.495098 - 0.691509I	2.00354 + 2.05554I	6.86806 - 1.30502I
b = -1.206330 - 0.367263I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.428243 - 0.664531I		
a = 0.714452 + 0.421331I	2.00354 - 0.20693I	6.86806 - 0.28344I
b = -0.217102 - 0.071087I		
u = 0.428243 - 0.664531I		
a = -0.512773 + 0.573888I	2.00354 - 0.20693I	6.86806 - 0.28344I
b = -1.044990 + 0.150675I		
u = 0.428243 - 0.664531I		
a = 0.475180 - 1.143100I	0.66452 - 5.51923I	4.85484 + 4.49994I
b = 1.061230 - 0.489637I		
u = 0.428243 - 0.664531I		
a = -0.691630 + 0.012427I	0.66452 - 5.51923I	4.85484 + 4.49994I
b = 0.370476 + 0.414858I		
u = 0.428243 - 0.664531I		
a = -1.290680 - 0.422211I	2.19916 + 0.92430I	2.38882 - 0.79423I
b = -1.230390 - 0.212303I		
u = 0.428243 - 0.664531I		
a = -0.021113 + 0.454124I	-3.45853 + 0.92430I	0.419245 - 0.794226I
b = 0.928150 + 0.448492I		
u = 0.428243 - 0.664531I		
a = -0.45184 - 1.50268I	-3.45853 + 0.92430I	0.419245 - 0.794226I
b = 0.445858 - 0.853680I		
u = 0.428243 - 0.664531I		
a = -1.42972 - 0.79073I	5.20361 + 3.50280I	10.00621 - 4.36218I
b = -1.201220 + 0.073274I		
u = 0.428243 - 0.664531I		
a = 1.45063 + 0.77681I	2.19916 + 0.92430I	2.38882 - 0.79423I
b = 0.765736 + 0.349328I		
u = 0.428243 - 0.664531I		
a = 1.48375 + 0.73194I	5.20361 - 1.65419I	10.00621 + 2.77373I
b = 1.090890 - 0.140025I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.428243 - 0.664531I		
a = 1.10763 + 1.50141I	2.00354 + 2.05554I	6.86806 - 1.30502I
b = 0.103004 + 0.985223I		
u = 0.428243 - 0.664531I		
a = -1.04266 - 1.76681I	0.66452 + 7.36784I	4.85484 - 6.08840I
b = 0.022518 - 1.191450I		
u = 0.428243 - 0.664531I		
a = -2.01816 - 0.39141I	5.20361 - 1.65419I	10.00621 + 2.77373I
b = -1.42014 - 0.57718I		
u = 0.428243 - 0.664531I		
a = 2.03871 + 0.61553I	5.20361 + 3.50280I	10.00621 - 4.36218I
b = 1.31381 + 0.70782I		
u = 1.073950 + 0.558752I		
a = -0.664094 + 0.668228I	-1.56793 + 5.69302I	4.13596 - 5.51057I
b = -0.295117 + 1.104200I		
u = 1.073950 + 0.558752I		
a = -0.193047 + 1.198190I	3.89415 + 4.56179I	10.58478 - 4.99978I
b = 1.315860 + 0.064316I		
u = 1.073950 + 0.558752I		
a = -0.111947 - 0.724388I	3.89415 + 4.56179I	10.58478 - 4.99978I
b = 0.101611 - 0.435249I		
u = 1.073950 + 0.558752I		
a = 0.081352 - 0.699474I	2.55512 - 0.75052I	8.57155 - 0.21640I
b = -1.105270 + 0.161393I		
u = 1.073950 + 0.558752I		
a = 0.717274 - 1.217360I	3.89415 + 6.82425I	10.58478 - 6.02136I
b = -0.226353 - 1.304860I		
u = 1.073950 + 0.558752I		
a = -0.93532 + 1.14301I	2.55512 + 12.13660I	8.57155 - 10.80474I
b = 0.08300 + 1.50716I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.073950 + 0.558752I		
a = 0.88186 - 1.26823I	-1.56793 + 5.69302I	4.13596 - 5.51057I
b = -1.177270 - 0.338145I		
u = 1.073950 + 0.558752I		
a = 0.270195 + 0.166091I	2.55512 - 0.75052I	8.57155 - 0.21640I
b = -0.506146 + 0.241762I		
u = 1.073950 + 0.558752I		
a = 0.10508 - 1.69146I	4.08977 + 5.69302I	6.10554 - 5.51057I
b = -0.867965 - 0.637909I		
u = 1.073950 + 0.558752I		
a = -0.17872 + 1.89437I	4.08977 + 5.69302I	6.10554 - 5.51057I
b = 1.36589 + 0.37885I		
u = 1.073950 + 0.558752I		
a = -0.78717 + 1.77649I	3.89415 + 6.82425I	10.58478 - 6.02136I
b = 1.343660 + 0.357004I		
u = 1.073950 + 0.558752I		
a = 1.00771 - 1.77771I	2.55512 + 12.13660I	8.57155 - 10.80474I
b = -1.338020 - 0.418979I		
u = 1.073950 + 0.558752I		
a = -0.11963 + 2.06380I	7.09422 + 3.11453I	13.72292 - 1.94261I
b = 1.62571 + 0.82625I		
u = 1.073950 + 0.558752I		
a = 0.23274 - 2.06246I	7.09422 + 8.27152I	13.7229 - 9.0785I
b = -1.50878 - 0.98090I		
u = 1.073950 + 0.558752I		
a = -0.22467 - 2.13523I	7.09422 + 3.11453I	13.72292 - 1.94261I
b = -1.091960 - 0.083854I		
u = 1.073950 + 0.558752I		
a = 0.07723 + 2.22849I	7.09422 + 8.27152I	13.7229 - 9.0785I
b = 1.207190 + 0.117716I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.073950 - 0.558752I		
a = -0.664094 - 0.668228I	-1.56793 - 5.69302I	4.13596 + 5.51057I
b = -0.295117 - 1.104200I		
u = 1.073950 - 0.558752I		
a = -0.193047 - 1.198190I	3.89415 - 4.56179I	10.58478 + 4.99978I
b = 1.315860 - 0.064316I		
u = 1.073950 - 0.558752I		
a = -0.111947 + 0.724388I	3.89415 - 4.56179I	10.58478 + 4.99978I
b = 0.101611 + 0.435249I		
u = 1.073950 - 0.558752I		
a = 0.081352 + 0.699474I	2.55512 + 0.75052I	8.57155 + 0.21640I
b = -1.105270 - 0.161393I		
u = 1.073950 - 0.558752I		
a = 0.717274 + 1.217360I	3.89415 - 6.82425I	10.58478 + 6.02136I
b = -0.226353 + 1.304860I		
u = 1.073950 - 0.558752I		
a = -0.93532 - 1.14301I	2.55512 - 12.13660I	8.57155 + 10.80474I
b = 0.08300 - 1.50716I		
u = 1.073950 - 0.558752I		
a = 0.88186 + 1.26823I	-1.56793 - 5.69302I	4.13596 + 5.51057I
b = -1.177270 + 0.338145I		
u = 1.073950 - 0.558752I		
a = 0.270195 - 0.166091I	2.55512 + 0.75052I	8.57155 + 0.21640I
b = -0.506146 - 0.241762I		
u = 1.073950 - 0.558752I		
a = 0.10508 + 1.69146I	4.08977 - 5.69302I	6.10554 + 5.51057I
b = -0.867965 + 0.637909I		
u = 1.073950 - 0.558752I		
a = -0.17872 - 1.89437I	4.08977 - 5.69302I	6.10554 + 5.51057I
b = 1.36589 - 0.37885I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.073950 - 0.558752I		
a = -0.78717 - 1.77649I	3.89415 - 6.82425I	10.58478 + 6.02136I
b = 1.343660 - 0.357004I		
u = 1.073950 - 0.558752I		
a = 1.00771 + 1.77771I	2.55512 - 12.13660I	8.57155 + 10.80474I
b = -1.338020 + 0.418979I		
u = 1.073950 - 0.558752I		
a = -0.11963 - 2.06380I	7.09422 - 3.11453I	13.72292 + 1.94261I
b = 1.62571 - 0.82625I		
u = 1.073950 - 0.558752I		
a = 0.23274 + 2.06246I	7.09422 - 8.27152I	13.7229 + 9.0785I
b = -1.50878 + 0.98090I		
u = 1.073950 - 0.558752I		
a = -0.22467 + 2.13523I	7.09422 - 3.11453I	13.72292 + 1.94261I
b = -1.091960 + 0.083854I		
u = 1.073950 - 0.558752I		
a = 0.07723 - 2.22849I	7.09422 - 8.27152I	13.7229 + 9.0785I
b = 1.207190 - 0.117716I		

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} -3u^{24} + 24u^{23} + \dots - 8u + 14 \\ 15u^{24} - 21u^{23} + \dots - 11u + 8 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 3u^{24} - 9u^{23} + \dots - 31u + 19 \\ 12u^{24} - 33u^{23} + \dots - 5u + 4 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} 3u^{24} + 3u^{23} + \dots + 4u + 3 \\ 3u^{23} - 16u^{21} + \dots - 2u^{2} + 1 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 33u^{24} - 6u^{23} + \dots + 61u - 23 \\ 48u^{23} - 69u^{22} + \dots + 28u - 9 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 3u^{23} - 19u^{21} + \dots + 4u + 2 \\ 3u^{23} - 3u^{22} + \dots + 2u^{2} + 2u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 6u^{24} - 15u^{23} + \dots - 5u - 3 \\ -9u^{23} + 12u^{22} + \dots + 6u - 2 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -21u^{24} - 9u^{23} + \dots + 9u^{2} - 2 \\ 3u^{24} + 9u^{23} + \dots + 8u - 6 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$126u^{24} - 102u^{23} - 699u^{22} + 541u^{21} + 2172u^{20} - 1434u^{19} - 4617u^{18} + 2536u^{17} + 7243u^{16} - 3329u^{15} - 8472u^{14} + 3549u^{13} + 7382u^{12} - 3351u^{11} - 4576u^{10} + 2989u^9 + 1670u^8 - 2287u^7 + 99u^6 + 1268u^5 - 537u^4 - 411u^3 + 290u^2 + 52u - 510u^2 + 52u^2 +$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$9(9u^{25} - 87u^{24} + \dots + 7u - 1)$
c_2	$3(3u^{25} + 9u^{24} + \dots + 3u + 1)$
c_3, c_8	$u^{25} + 4u^{24} + \dots - 5u - 1$
c_4, c_{10}	$u^{25} - 4u^{24} + \dots - 5u + 1$
c_5	$3(3u^{25} - 9u^{24} + \dots + 3u - 1)$
c_{6}, c_{9}	$u^{25} + 2u^{24} + \dots + 66u + 9$
c_7	$3(3u^{25} + 3u^{24} + \dots - 3u - 1)$
c_{11}	$3(3u^{25} - 3u^{24} + \dots - 3u + 1)$
c_{12}	$9(9u^{25} - 105u^{24} + \dots + 11u - 1)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$81(81y^{25} + 1089y^{24} + \dots - y - 1)$
c_2, c_5	$9(9y^{25} - 87y^{24} + \dots + 7y - 1)$
c_3, c_4, c_8 c_{10}	$y^{25} - 28y^{24} + \dots - 25y - 1$
c_{6}, c_{9}	$y^{25} - 6y^{24} + \dots + 2070y - 81$
c_7, c_{11}	$9(9y^{25} - 105y^{24} + \dots + 11y - 1)$
c_{12}	$81(81y^{25} + 603y^{24} + \dots - y - 1)$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\int \sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.923489 + 0.345905I		
a = -0.720645 - 0.527374I	8.12039 + 1.07227I	8.76909 + 2.38450I
b = 1.71322 + 0.16401I		
u = -0.923489 - 0.345905I		
a = -0.720645 + 0.527374I	8.12039 - 1.07227I	8.76909 - 2.38450I
b = 1.71322 - 0.16401I		
u = -0.669051 + 0.798063I		
a = -0.257892 - 0.343854I	1.12313 - 7.15005I	6.27018 + 8.58997I
b = 0.765345 - 0.316241I		
u = -0.669051 - 0.798063I		
a = -0.257892 + 0.343854I	1.12313 + 7.15005I	6.27018 - 8.58997I
b = 0.765345 + 0.316241I		
u = -0.889795 + 0.325257I		
a = 0.797666 + 0.491683I	7.96758 - 3.88085I	7.89399 + 7.92446I
b = -1.70143 - 0.05361I		
u = -0.889795 - 0.325257I		
a = 0.797666 - 0.491683I	7.96758 + 3.88085I	7.89399 - 7.92446I
b = -1.70143 + 0.05361I		
u = -1.036170 + 0.355737I		
a = -0.507033 - 0.432535I	6.46065 - 1.83392I	13.3143 + 7.6357I
b = 1.47832 + 0.30367I		
u = -1.036170 - 0.355737I		
a = -0.507033 + 0.432535I	6.46065 + 1.83392I	13.3143 - 7.6357I
b = 1.47832 - 0.30367I		
u = -0.896845		
a = 0.844584	5.02504	4.22460
b = -1.43679		
u = -0.877000 + 0.731898I		
a = -0.0946330 + 0.0564460I	-4.34453 - 2.78887I	11.2209 + 9.8076I
b = -0.008690 - 0.253427I		

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.877000 - 0.731898I		
a = -0.0946330 - 0.0564460I	-4.34453 + 2.78887I	11.2209 - 9.8076I
b = -0.008690 + 0.253427I		
u = 1.059140 + 0.465774I		
a = 0.68944 - 2.11241I	4.13121 + 9.24593I	9.8489 - 10.2882I
b = -0.993884 - 0.685078I		
u = 1.059140 - 0.465774I		
a = 0.68944 + 2.11241I	4.13121 - 9.24593I	9.8489 + 10.2882I
b = -0.993884 + 0.685078I		
u = 1.045990 + 0.522170I		
a = -0.26189 + 2.16824I	5.33965 + 4.74375I	11.61336 - 3.22346I
b = 1.177520 + 0.636228I		
u = 1.045990 - 0.522170I		
a = -0.26189 - 2.16824I	5.33965 - 4.74375I	11.61336 + 3.22346I
b = 1.177520 - 0.636228I		
u = 0.661465 + 0.371840I		
a = 2.41853 - 0.99561I	2.63632 - 5.65290I	6.26334 + 4.31813I
b = 0.756425 - 0.651019I		
u = 0.661465 - 0.371840I		
a = 2.41853 + 0.99561I	2.63632 + 5.65290I	6.26334 - 4.31813I
b = 0.756425 + 0.651019I		
u = 0.747855 + 0.122313I		
a = 1.47583 - 1.10372I	-0.701181 + 0.235235I	1.91554 + 2.64191I
b = 0.233452 - 0.314121I		
u = 0.747855 - 0.122313I		
a = 1.47583 + 1.10372I	-0.701181 - 0.235235I	1.91554 - 2.64191I
b = 0.233452 + 0.314121I		
u = 1.077370 + 0.637247I		
a = 0.22264 + 1.59788I	5.68920 + 6.52457I	11.36902 - 6.36884I
b = 1.247660 + 0.351853I		

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.077370 - 0.637247I		
a = 0.22264 - 1.59788I	5.68920 - 6.52457I	11.36902 + 6.36884I
b = 1.247660 - 0.351853I		
u = 0.575579 + 0.433026I		
a = -2.25476 + 0.80851I	3.74335 - 0.58916I	9.27324 - 0.89770I
b = -0.920682 + 0.496698I		
u = 0.575579 - 0.433026I		
a = -2.25476 - 0.80851I	3.74335 + 0.58916I	9.27324 + 0.89770I
b = -0.920682 - 0.496698I		
u = 0.176535 + 0.691857I		
a = -0.929551 + 1.002670I	3.37987 - 0.81185I	11.80254 + 0.19976I
b = -1.028850 + 0.209652I		
u = 0.176535 - 0.691857I		
a = -0.929551 - 1.002670I	3.37987 + 0.81185I	11.80254 - 0.19976I
b = -1.028850 - 0.209652I		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$81(u^{8} + 3u^{7} + 7u^{6} + 10u^{5} + 11u^{4} + 10u^{3} + 6u^{2} + 4u + 1)^{12} $ $\cdot (9u^{25} - 87u^{24} + \dots + 7u - 1)(9u^{39} + 114u^{38} + \dots + 111616u + 4096)$
c_2	$9(u^8 - u^7 + \dots + 2u - 1)^{12}(3u^{25} + 9u^{24} + \dots + 3u + 1)$ $\cdot (3u^{39} + 48u^{38} + \dots - 480u - 64)$
c_3, c_8	$(u^{25} + 4u^{24} + \dots - 5u - 1)(u^{39} + 2u^{38} + \dots + 2u - 1)$ $\cdot (u^{96} - u^{95} + \dots - 369170u + 47717)$
c_4, c_{10}	$(u^{25} - 4u^{24} + \dots - 5u + 1)(u^{39} + 2u^{38} + \dots + 2u - 1)$ $\cdot (u^{96} - u^{95} + \dots - 369170u + 47717)$
c_5	$9(u^8 - u^7 + \dots + 2u - 1)^{12}(3u^{25} - 9u^{24} + \dots + 3u - 1)$ $\cdot (3u^{39} + 48u^{38} + \dots - 480u - 64)$
c_6, c_9	$(u^{25} + 2u^{24} + \dots + 66u + 9)(u^{39} + 2u^{38} + \dots - 33u - 9)$ $\cdot (u^{96} + 9u^{95} + \dots + 2219032u + 215401)$
c_7	$9(u^{6} - u^{5} + \dots - u + 1)^{16}(3u^{25} + 3u^{24} + \dots - 3u - 1)$ $\cdot (3u^{39} + 54u^{38} + \dots - 3328u - 256)$
c_{11}	$9(u^{6} - u^{5} + \dots - u + 1)^{16}(3u^{25} - 3u^{24} + \dots - 3u + 1)$ $\cdot (3u^{39} + 54u^{38} + \dots - 3328u - 256)$
c_{12}	$81(u^{6} - 3u^{5} + 5u^{4} - 4u^{3} + 2u^{2} - u + 1)^{16}$ $\cdot (9u^{25} - 105u^{24} + \dots + 11u - 1)$ $\cdot (9u^{39} - 132u^{38} + \dots + 262144u - 65536)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$6561(y^{8} + 5y^{7} + 11y^{6} + 6y^{5} - 17y^{4} - 34y^{3} - 22y^{2} - 4y + 1)^{12}$ $\cdot (81y^{25} + 1089y^{24} + \dots - y - 1)$ $\cdot (81y^{39} + 3006y^{38} + \dots + 5780799488y - 16777216)$
c_2, c_5	$81(y^8 - 3y^7 + 7y^6 - 10y^5 + 11y^4 - 10y^3 + 6y^2 - 4y + 1)^{12} $ $\cdot (9y^{25} - 87y^{24} + \dots + 7y - 1)(9y^{39} - 114y^{38} + \dots + 111616y - 4096)$
c_3, c_4, c_8 c_{10}	$(y^{25} - 28y^{24} + \dots - 25y - 1)(y^{39} - 26y^{38} + \dots + 52y^2 - 1)$ $\cdot (y^{96} - 81y^{95} + \dots - 141748367588y + 2276912089)$
c_6, c_9	$(y^{25} - 6y^{24} + \dots + 2070y - 81)(y^{39} + 36y^{37} + \dots + 315y - 81)$ $\cdot (y^{96} - 33y^{95} + \dots - 549152756700y + 46397590801)$
c_{7}, c_{11}	$81(y^{6} - 3y^{5} + 5y^{4} - 4y^{3} + 2y^{2} - y + 1)^{16}$ $\cdot (9y^{25} - 105y^{24} + \dots + 11y - 1)$ $\cdot (9y^{39} - 132y^{38} + \dots + 262144y - 65536)$
c_{12}	$6561(y^{6} + y^{5} + \dots + 3y + 1)^{16}(81y^{25} + 603y^{24} + \dots - y - 1)$ $\cdot (81y^{39} + 2196y^{38} + \dots - 63350767616y - 4294967296)$