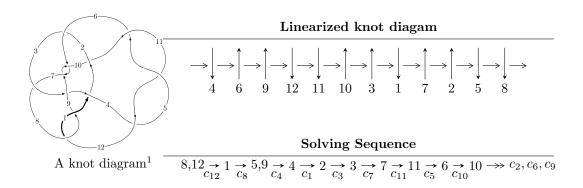
$12a_{0936} (K12a_{0936})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -8.37457 \times 10^{436} u^{125} + 9.53003 \times 10^{436} u^{124} + \dots + 1.35101 \times 10^{438} b + 3.45441 \times 10^{439}, \\ & 5.42684 \times 10^{439} u^{125} - 6.41823 \times 10^{439} u^{124} + \dots + 5.54363 \times 10^{440} a - 3.37566 \times 10^{442}, \\ & u^{126} - 2u^{125} + \dots - 3299u + 1231 \rangle \\ I_2^u &= \langle -16238531 u^{25} + 30226626 u^{24} + \dots + 923959b - 38221381, \\ & 37676420 u^{25} - 76531168 u^{24} + \dots + 923959a + 101309415, \ u^{26} - u^{25} + \dots - u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 152 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.
$$I_1^u = \langle -8.37 \times 10^{436} u^{125} + 9.53 \times 10^{436} u^{124} + \dots + 1.35 \times 10^{438} b + 3.45 \times 10^{439}, \ 5.43 \times 10^{439} u^{125} - 6.42 \times 10^{439} u^{124} + \dots + 5.54 \times 10^{440} a - 3.38 \times 10^{442}, \ u^{126} - 2u^{125} + \dots - 3299 u + 1231 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} -0.0978932u^{125} + 0.115777u^{124} + \cdots - 60.0039u + 60.8925 \\ 0.0619876u^{125} - 0.0705402u^{124} + \cdots + 50.4110u - 25.5692 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -0.0359056u^{125} + 0.0452365u^{124} + \cdots - 9.59292u + 35.3233 \\ 0.0619876u^{125} - 0.0705402u^{124} + \cdots + 50.4110u - 25.5692 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.214789u^{125} + 0.296860u^{124} + \cdots - 474.659u + 353.417 \\ 0.122779u^{125} - 0.161806u^{124} + \cdots + 149.065u - 130.070 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.0772666u^{125} + 0.0884009u^{124} + \cdots - 71.4657u + 70.1570 \\ 0.0636737u^{125} - 0.0767534u^{124} + \cdots + 32.6989u - 11.7076 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.108594u^{125} + 0.178457u^{124} + \cdots - 259.220u + 200.755 \\ 0.0288267u^{125} - 0.0221697u^{124} + \cdots + 233.565u - 127.968 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.149451u^{125} - 0.221439u^{124} + \cdots + 127.121u - 131.829 \\ -0.0290794u^{125} + 0.0255495u^{124} + \cdots - 149.270u + 74.8556 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0178159u^{125} - 0.00589056u^{124} + \cdots + 155.501u - 49.6233 \\ 0.0261068u^{125} - 0.222873u^{124} + \cdots - 717.172u + 238.249 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.189401u^{125} + 0.179433u^{124} + \cdots - 526.484u + 302.818 \\ 0.115155u^{125} - 0.125900u^{124} + \cdots + 283.633u - 171.090 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-2.46505u^{125} + 6.90651u^{124} + \dots + 16799.0u 4389.17$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{126} + 9u^{125} + \dots + 177179u + 46852$
c_2	$u^{126} - 4u^{125} + \dots - 21u + 161$
<i>c</i> ₃	$u^{126} - 3u^{125} + \dots - 1627736u + 491149$
c_4, c_5, c_{11}	$u^{126} - u^{125} + \dots - 44u + 1$
c_6, c_9	$u^{126} + 4u^{125} + \dots + 940u + 28$
c_7	$u^{126} + 11u^{124} + \dots + 20491u + 4508$
c_8, c_{12}	$u^{126} - 2u^{125} + \dots - 3299u + 1231$
c_{10}	$u^{126} - 6u^{125} + \dots - 21u + 2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{126} - 3y^{125} + \dots - 81214908545y + 2195109904$
c_2	$y^{126} - 18y^{125} + \dots - 1745037y + 25921$
<i>c</i> ₃	$y^{126} + 43y^{125} + \dots + 11414107688058y + 241227340201$
c_4, c_5, c_{11}	$y^{126} + 129y^{125} + \dots - 144y + 1$
c_{6}, c_{9}	$y^{126} + 92y^{125} + \dots + 2432y + 784$
	$y^{126} + 22y^{125} + \dots + 3435910495y + 20322064$
c_8, c_{12}	$y^{126} - 66y^{125} + \dots - 35934251y + 1515361$
c_{10}	$y^{126} - 6y^{125} + \dots + 743y + 4$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.148848 + 0.997058I		
a = 0.484449 + 0.589301I	-3.08034 - 8.76965I	0
b = -0.699615 - 0.538924I		
u = -0.148848 - 0.997058I		
a = 0.484449 - 0.589301I	-3.08034 + 8.76965I	0
b = -0.699615 + 0.538924I		
u = -0.932617 + 0.406689I		
a = 2.39092 + 0.91877I	7.15726 - 0.43742I	0
b = -0.01303 - 1.43923I		
u = -0.932617 - 0.406689I		
a = 2.39092 - 0.91877I	7.15726 + 0.43742I	0
b = -0.01303 + 1.43923I		
u = 0.139361 + 0.971063I		
a = 0.679799 - 0.430076I	2.02908 + 3.15648I	0
b = -0.660053 + 0.442878I		
u = 0.139361 - 0.971063I		
a = 0.679799 + 0.430076I	2.02908 - 3.15648I	0
b = -0.660053 - 0.442878I		
u = 0.969622 + 0.329631I		
a = 2.64691 + 0.02661I	2.85868 + 4.34404I	0
b = -0.03223 + 1.42157I		
u = 0.969622 - 0.329631I		
a = 2.64691 - 0.02661I	2.85868 - 4.34404I	0
b = -0.03223 - 1.42157I		
u = 0.994765 + 0.250646I		
a = 0.051584 - 1.062280I	0.35382 - 2.73597I	0
b = 0.161305 + 0.726440I		
u = 0.994765 - 0.250646I		
a = 0.051584 + 1.062280I	0.35382 + 2.73597I	0
b = 0.161305 - 0.726440I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.943035 + 0.237535I		
a = -0.685926 + 0.121446I	-1.56204 + 0.98621I	0
b = -0.330407 - 0.898944I		
u = -0.943035 - 0.237535I		
a = -0.685926 - 0.121446I	-1.56204 - 0.98621I	0
b = -0.330407 + 0.898944I		
u = 0.779175 + 0.581592I		
a = 1.43608 - 2.67401I	3.92478 - 2.29687I	0
b = -0.01880 + 1.59472I		
u = 0.779175 - 0.581592I		
a = 1.43608 + 2.67401I	3.92478 + 2.29687I	0
b = -0.01880 - 1.59472I		
u = 0.949055 + 0.404563I		
a = -1.71474 + 0.73666I	7.14144 - 5.30194I	0
b = -0.31857 - 1.54304I		
u = 0.949055 - 0.404563I		
a = -1.71474 - 0.73666I	7.14144 + 5.30194I	0
b = -0.31857 + 1.54304I		
u = -0.919188 + 0.203338I		
a = -1.53946 - 1.04780I	1.10721 + 0.90973I	0
b = -0.11947 + 1.75078I		
u = -0.919188 - 0.203338I		
a = -1.53946 + 1.04780I	1.10721 - 0.90973I	0
b = -0.11947 - 1.75078I		
u = -0.840820 + 0.395590I		
a = 0.566454 + 0.458444I	-1.69920 + 1.44671I	0
b = 0.522950 - 0.439061I		
u = -0.840820 - 0.395590I		
a = 0.566454 - 0.458444I	-1.69920 - 1.44671I	0
b = 0.522950 + 0.439061I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.984351 + 0.431623I		
a = -0.313627 + 0.015274I	-3.52157 - 2.16105I	0
b = -0.323201 + 1.073460I		
u = 0.984351 - 0.431623I		
a = -0.313627 - 0.015274I	-3.52157 + 2.16105I	0
b = -0.323201 - 1.073460I		
u = 0.189494 + 0.902235I		
a = 0.37826 - 1.91093I	6.39893 - 2.09183I	0
b = 0.03940 + 1.50859I		
u = 0.189494 - 0.902235I		
a = 0.37826 + 1.91093I	6.39893 + 2.09183I	0
b = 0.03940 - 1.50859I		
u = 1.076520 + 0.119638I		
a = -1.197690 - 0.223514I	-7.01035 - 0.91777I	0
b = -0.426418 + 0.560555I		
u = 1.076520 - 0.119638I		
a = -1.197690 + 0.223514I	-7.01035 + 0.91777I	0
b = -0.426418 - 0.560555I		
u = -1.066280 + 0.238950I		
a = -0.44262 + 1.55222I	-3.64530 + 5.96303I	0
b = 0.078194 - 0.586003I		
u = -1.066280 - 0.238950I		
a = -0.44262 - 1.55222I	-3.64530 - 5.96303I	0
b = 0.078194 + 0.586003I		
u = 0.836369 + 0.337355I		
a = -1.196980 + 0.497658I	-1.81558 - 5.93479I	0
b = -0.835817 - 0.333023I		
u = 0.836369 - 0.337355I		
a = -1.196980 - 0.497658I	-1.81558 + 5.93479I	0
b = -0.835817 + 0.333023I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.076530 + 0.257076I		
a = -0.199548 - 0.317015I	-0.95266 + 1.40290I	0
b = 0.93261 + 1.10702I		
u = -1.076530 - 0.257076I		
a = -0.199548 + 0.317015I	-0.95266 - 1.40290I	0
b = 0.93261 - 1.10702I		
u = 1.027590 + 0.444521I		
a = -0.752960 + 1.009850I	-6.71965 - 1.59487I	0
b = -0.300262 - 0.004771I		
u = 1.027590 - 0.444521I		
a = -0.752960 - 1.009850I	-6.71965 + 1.59487I	0
b = -0.300262 + 0.004771I		
u = -0.666000 + 0.910304I		
a = 0.67044 + 1.74561I	5.49762 + 3.19311I	0
b = 0.05679 - 1.56434I		
u = -0.666000 - 0.910304I		
a = 0.67044 - 1.74561I	5.49762 - 3.19311I	0
b = 0.05679 + 1.56434I		
u = -1.017980 + 0.497500I		
a = -1.69045 - 0.74925I	4.08352 + 10.02990I	0
b = -0.30351 + 1.47997I		
u = -1.017980 - 0.497500I		
a = -1.69045 + 0.74925I	4.08352 - 10.02990I	0
b = -0.30351 - 1.47997I		
u = -0.074073 + 1.135800I		
a = 0.25441 - 1.94446I	6.38693 - 1.83428I	0
b = 0.00690 + 1.46050I		
u = -0.074073 - 1.135800I		
a = 0.25441 + 1.94446I	6.38693 + 1.83428I	0
b = 0.00690 - 1.46050I		

	Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape	
u =	1.000600 + 0.585201I	,		
a =	1.32389 - 1.27787I	4.31935 - 3.21172I	0	
b =	0.06932 + 1.44806I			
u =	1.000600 - 0.585201I			
a =	1.32389 + 1.27787I	4.31935 + 3.21172I	0	
b =	0.06932 - 1.44806I			
u =	-0.937234 + 0.690886I			
a =	-1.37031 - 2.60421I	-1.99693 + 2.71074I	0	
b =	-0.066461 + 1.393770I			
u =	-0.937234 - 0.690886I			
a =	-1.37031 + 2.60421I	-1.99693 - 2.71074I	0	
b =	-0.066461 - 1.393770I			
u =	0.812096 + 0.187109I			
a =	-0.04787 - 3.67334I	3.67919 - 6.70709I	0	
b =	0.06270 + 1.56183I			
u =	0.812096 - 0.187109I			
a =	-0.04787 + 3.67334I	3.67919 + 6.70709I	0	
	0.06270 - 1.56183I			
	-0.829005 + 0.066349I			
a =	-1.369970 - 0.124550I	0.498437 + 0.097480I	-184.802 + 0.I	
	-1.66040 + 0.95864I			
	-0.829005 - 0.066349I			
a =	-1.369970 + 0.124550I	0.498437 - 0.097480I	-184.802 + 0.I	
	-1.66040 - 0.95864I			
u =	0.318174 + 1.132600I			
a =	0.04738 - 2.15159I	3.72675 + 12.23680I	0	
	-0.24143 + 1.53554I			
u =	0.318174 - 1.132600I			
	0.04738 + 2.15159I	3.72675 - 12.23680I	0	
b =	-0.24143 - 1.53554I			

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.222388 + 0.775919I		
a = 0.73054 + 1.92549I	1.24727 + 3.56284I	0
b = 0.087347 - 1.375010I		
u = 0.222388 - 0.775919I		
a = 0.73054 - 1.92549I	1.24727 - 3.56284I	0
b = 0.087347 + 1.375010I		
u = 1.134550 + 0.382624I		
a = -0.915642 + 0.347066I	-3.25311 - 4.39444I	0
b = -0.576662 - 0.305597I		
u = 1.134550 - 0.382624I		
a = -0.915642 - 0.347066I	-3.25311 + 4.39444I	0
b = -0.576662 + 0.305597I		
u = -1.159380 + 0.315869I		
a = 0.0490977 + 0.1201230I	-2.96172 - 0.16203I	0
b = -0.100624 - 1.201120I		
u = -1.159380 - 0.315869I		
a = 0.0490977 - 0.1201230I	-2.96172 + 0.16203I	0
b = -0.100624 + 1.201120I		
u = -0.479018 + 1.103440I		
a = 0.297343 - 0.252162I	0.79102 + 2.44530I	0
b = -0.132709 + 0.061105I		
u = -0.479018 - 1.103440I		
a = 0.297343 + 0.252162I	0.79102 - 2.44530I	0
b = -0.132709 - 0.061105I		
u = -0.711681 + 0.329657I		
a = 0.51756 + 2.91327I	7.95495 + 3.72264I	0 10.70451I
b = 0.06856 - 1.56632I		
u = -0.711681 - 0.329657I		
a = 0.51756 - 2.91327I	7.95495 - 3.72264I	0. + 10.70451I
b = 0.06856 + 1.56632I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.409298 + 1.145340I		
a = 0.23193 + 2.10725I	8.48302 - 6.51011I	0
b = -0.24019 - 1.51287I		
u = -0.409298 - 1.145340I		
a = 0.23193 - 2.10725I	8.48302 + 6.51011I	0
b = -0.24019 + 1.51287I		
u = -1.129780 + 0.471397I		
a = -0.919743 - 0.449485I	-6.34927 + 5.70832I	0
b = -0.627097 + 0.134208I		
u = -1.129780 - 0.471397I		
a = -0.919743 + 0.449485I	-6.34927 - 5.70832I	0
b = -0.627097 - 0.134208I		
u = 0.658946 + 0.378164I		
a = 0.250036 + 0.240626I	-1.38842 + 2.68986I	0
b = 0.640273 - 0.579391I		
u = 0.658946 - 0.378164I		
a = 0.250036 - 0.240626I	-1.38842 - 2.68986I	0
b = 0.640273 + 0.579391I		
u = 0.458262 + 0.597731I		
a = 0.654853 - 0.467897I	-2.19670 - 1.87960I	0. + 4.44403I
b = 0.386012 + 0.709668I		
u = 0.458262 - 0.597731I		
a = 0.654853 + 0.467897I	-2.19670 + 1.87960I	0 4.44403I
b = 0.386012 - 0.709668I		
u = -0.146371 + 0.735428I		
a = 0.629678 + 0.135044I	0.18032 + 2.18521I	5.35102 - 2.23079I
b = -0.200353 - 0.525626I		
u = -0.146371 - 0.735428I		
a = 0.629678 - 0.135044I	0.18032 - 2.18521I	5.35102 + 2.23079I
b = -0.200353 + 0.525626I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.131562 + 0.731311I		
a = 0.53826 + 1.50162I	-3.20346 + 4.20633I	-1.42742 - 4.24409I
b = -0.633873 - 0.485988I		
u = -0.131562 - 0.731311I		
a = 0.53826 - 1.50162I	-3.20346 - 4.20633I	-1.42742 + 4.24409I
b = -0.633873 + 0.485988I		
u = -0.476604 + 0.567281I		
a = -0.00364 - 1.54332I	5.68339 - 5.76173I	4.03620 + 1.96765I
b = 0.19968 + 1.54911I		
u = -0.476604 - 0.567281I		
a = -0.00364 + 1.54332I	5.68339 + 5.76173I	4.03620 - 1.96765I
b = 0.19968 - 1.54911I		
u = -1.219270 + 0.331553I		
a = 0.106622 + 0.357014I	-2.78023 + 0.97303I	0
b = 0.962536 - 0.062103I		
u = -1.219270 - 0.331553I		
a = 0.106622 - 0.357014I	-2.78023 - 0.97303I	0
b = 0.962536 + 0.062103I		
u = 0.651889 + 0.337481I		
a = -0.42475 + 1.61434I	8.12960 + 1.97140I	4.04397 + 3.29297I
b = 0.16202 - 1.63051I		
u = 0.651889 - 0.337481I		
a = -0.42475 - 1.61434I	8.12960 - 1.97140I	4.04397 - 3.29297I
b = 0.16202 + 1.63051I		
u = 0.596740 + 1.116480I		
a = 0.62338 - 1.94608I	5.05717 - 0.14156I	0
b = -0.30543 + 1.41182I		
u = 0.596740 - 1.116480I		
a = 0.62338 + 1.94608I	5.05717 + 0.14156I	0
b = -0.30543 - 1.41182I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.251670 + 0.248282I		
a = -0.942174 - 0.163311I	-7.24377 + 4.41221I	0
b = -0.546637 + 0.467593I		
u = -1.251670 - 0.248282I		
a = -0.942174 + 0.163311I	-7.24377 - 4.41221I	0
b = -0.546637 - 0.467593I		
u = 1.162380 + 0.531161I		
a = -1.98603 + 1.00024I	-1.51459 - 8.43395I	0
b = -0.172096 - 1.386380I		
u = 1.162380 - 0.531161I		
a = -1.98603 - 1.00024I	-1.51459 + 8.43395I	0
b = -0.172096 + 1.386380I		
u = 1.207860 + 0.421033I		
a = -0.0178337 - 0.0720407I	-6.96323 - 8.27018I	0
b = 1.008340 - 0.506746I		
u = 1.207860 - 0.421033I		
a = -0.0178337 + 0.0720407I	-6.96323 + 8.27018I	0
b = 1.008340 + 0.506746I		
u = -1.189610 + 0.583725I		
a = -0.489387 - 0.424237I	-1.73251 + 3.52502I	0
b = -0.265791 + 0.205094I		
u = -1.189610 - 0.583725I		
a = -0.489387 + 0.424237I	-1.73251 - 3.52502I	0
b = -0.265791 - 0.205094I		
u = -1.227660 + 0.501625I		
a = -1.55719 - 0.96114I	2.51802 + 6.99481I	0
b = -0.16818 + 1.45759I		
u = -1.227660 - 0.501625I		
a = -1.55719 + 0.96114I	2.51802 - 6.99481I	0
b = -0.16818 - 1.45759I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.220020 + 0.537137I		
a = 0.55937 + 1.32266I	-6.20401 + 0.67249I	0
b = 0.639267 - 0.912827I		
u = -1.220020 - 0.537137I		
a = 0.55937 - 1.32266I	-6.20401 - 0.67249I	0
b = 0.639267 + 0.912827I		
u = -0.641115 + 0.181165I		
a = 2.68375 - 1.34030I	-2.20245 - 3.80287I	2.77639 - 4.05015I
b = -0.151706 - 0.040572I		
u = -0.641115 - 0.181165I		
a = 2.68375 + 1.34030I	-2.20245 + 3.80287I	2.77639 + 4.05015I
b = -0.151706 + 0.040572I		
u = -0.178617 + 0.633748I		
a = 0.424577 - 0.096385I	-3.65130 - 1.45525I	-4.73147 + 3.01385I
b = 0.544428 + 0.225863I		
u = -0.178617 - 0.633748I		
a = 0.424577 + 0.096385I	-3.65130 + 1.45525I	-4.73147 - 3.01385I
b = 0.544428 - 0.225863I		
u = 1.240540 + 0.526594I		
a = 0.386316 - 0.877754I	-1.39198 - 8.45006I	0
b = 0.932489 + 0.626542I		
u = 1.240540 - 0.526594I		
a = 0.386316 + 0.877754I	-1.39198 + 8.45006I	0
b = 0.932489 - 0.626542I		
u = 1.342150 + 0.132858I		
a = 0.110083 - 0.685341I	0.74225 - 2.91628I	0
b = 0.160826 + 1.248210I		
u = 1.342150 - 0.132858I		
a = 0.110083 + 0.685341I	0.74225 + 2.91628I	0
b = 0.160826 - 1.248210I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.260140 + 0.554115I		
a = 0.525111 + 0.894267I	-6.5214 + 14.2956I	0
b = 0.862357 - 0.634721I		
u = -1.260140 - 0.554115I		
a = 0.525111 - 0.894267I	-6.5214 - 14.2956I	0
b = 0.862357 + 0.634721I		
u = 1.348730 + 0.318201I		
a = 0.068972 - 0.170369I	-8.13778 + 4.10129I	0
b = 0.759504 - 0.238728I		
u = 1.348730 - 0.318201I		
a = 0.068972 + 0.170369I	-8.13778 - 4.10129I	0
b = 0.759504 + 0.238728I		
u = 1.341980 + 0.347451I		
a = -1.31337 + 0.64564I	-0.69437 - 6.95691I	0
b = -0.16379 - 1.51215I		
u = 1.341980 - 0.347451I		
a = -1.31337 - 0.64564I	-0.69437 + 6.95691I	0
b = -0.16379 + 1.51215I		
u = 1.215820 + 0.687867I		
a = 0.98021 - 1.68467I	2.80725 - 6.41201I	0
b = 0.38806 + 1.55320I		
u = 1.215820 - 0.687867I		
a = 0.98021 + 1.68467I	2.80725 + 6.41201I	0
b = 0.38806 - 1.55320I		
u = 1.325560 + 0.486468I		
a = -0.620531 + 0.161435I	-4.28613 - 6.83274I	0
b = -0.283598 - 0.388858I		
u = 1.325560 - 0.486468I		
a = -0.620531 - 0.161435I	-4.28613 + 6.83274I	0
b = -0.283598 + 0.388858I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.24621 + 0.67949I		
a = 1.21880 + 1.58383I	5.7485 + 12.9840I	0
b = 0.31321 - 1.57749I		
u = -1.24621 - 0.67949I		
a = 1.21880 - 1.58383I	5.7485 - 12.9840I	0
b = 0.31321 + 1.57749I		
u = 1.26837 + 0.66057I		
a = 1.33678 - 1.54106I	0.7099 - 18.5946I	0
b = 0.29857 + 1.58276I		
u = 1.26837 - 0.66057I		
a = 1.33678 + 1.54106I	0.7099 + 18.5946I	0
b = 0.29857 - 1.58276I		
u = 0.60781 + 1.34059I		
a = -0.11147 + 1.98504I	5.96691 - 2.85688I	0
b = -0.02176 - 1.42990I		
u = 0.60781 - 1.34059I		
a = -0.11147 - 1.98504I	5.96691 + 2.85688I	0
b = -0.02176 + 1.42990I		
u = 1.23071 + 0.81446I		
a = -1.03642 + 1.64382I	3.78807 - 4.69844I	0
b = -0.07588 - 1.44304I		
u = 1.23071 - 0.81446I		
a = -1.03642 - 1.64382I	3.78807 + 4.69844I	0
b = -0.07588 + 1.44304I		
u = -1.50987 + 0.09187I		
a = -0.014556 - 0.815056I	-3.12537 - 7.53337I	0
b = 0.214295 + 1.367810I		
u = -1.50987 - 0.09187I		
a = -0.014556 + 0.815056I	-3.12537 + 7.53337I	0
b = 0.214295 - 1.367810I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.427169 + 0.181956I a = 2.69543 - 0.61581I	1.79440 + 0.02427I	7.84012 + 1.45955I
b = -0.240674 + 0.130137I		
u = 0.427169 - 0.181956I $a = 2.69543 + 0.61581I$ $b = -0.240674 - 0.130137I$	1.79440 - 0.02427I	7.84012 - 1.45955I
u = -1.42925 + 0.64803I $a = -1.01971 - 1.14875I$ $b = -0.09841 + 1.48811I$	1.98063 + 8.26315I	0
u = -1.42925 - 0.64803I $a = -1.01971 + 1.14875I$ $b = -0.09841 - 1.48811I$	1.98063 - 8.26315I	0
u = -0.050278 + 0.411683I $a = 0.550036 + 0.242277I$ $b = 0.297186 - 0.449903I$	-0.135812 + 1.155040I	-1.96188 - 5.19114I
u = -0.050278 - 0.411683I $a = 0.550036 - 0.242277I$ $b = 0.297186 + 0.449903I$	-0.135812 - 1.155040I	-1.96188 + 5.19114I

 $I_2^u = \langle -1.62 \times 10^7 u^{25} + 3.02 \times 10^7 u^{24} + \dots + 9.24 \times 10^5 b - 3.82 \times 10^7, \ 3.77 \times 10^7 u^{25} - 7.65 \times 10^7 u^{24} + \dots + 9.24 \times 10^5 a + 1.01 \times 10^8, \ u^{26} - u^{25} + \dots - u + 1 \rangle$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} -40.7772u^{25} + 82.8296u^{24} + \dots + 258.260u - 109.647 \\ 17.5749u^{25} - 32.7143u^{24} + \dots - 103.573u + 41.3670 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -23.2022u^{25} + 50.1154u^{24} + \dots + 154.688u - 68.2801 \\ 17.5749u^{25} - 32.7143u^{24} + \dots - 103.573u + 41.3670 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 42.0013u^{25} - 97.8731u^{24} + \dots - 341.143u + 160.014 \\ -4.79559u^{25} + 0.0230584u^{24} + \dots + 18.0952u + 6.60502 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -23.2022u^{25} + 49.1154u^{24} + \dots + 153.688u - 67.2801 \\ 17.5749u^{25} - 32.7143u^{24} + \dots + 153.688u - 67.2801 \\ 17.5749u^{25} - 32.7143u^{24} + \dots + 133.573u + 41.3670 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -66.2314u^{25} + 77.8533u^{24} + \dots + 243.213u - 58.3855 \\ 0.592913u^{25} - 4.06860u^{24} + \dots - 24.5921u + 16.7433 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -27.2660u^{25} + 35.2638u^{24} + \dots + 139.740u - 31.9295 \\ 0.268166u^{25} + 5.87467u^{24} + \dots + 23.0432u - 20.7456 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 67.9432u^{25} - 97.9002u^{24} + \dots - 299.466u + 99.3720 \\ -40.8380u^{25} + 63.9847u^{24} + \dots + 160.509u - 48.8588 \end{pmatrix}$$

$$\begin{pmatrix} -25.6943u^{25} + 58.6272u^{24} + \dots + 148.725u - 86.1828 \\ 42.2036u^{25} - 63.4743u^{24} + \dots + 168.537u + 53.7065 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{149866747}{923959}u^{25} - \frac{337930009}{923959}u^{24} + \dots - \frac{651165116}{923959}u + \frac{351073846}{923959}u + \frac{351073846}{923959}u^{24} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{26} - 12u^{25} + \dots - 36u + 7$
c_2	$u^{26} - u^{25} + \dots - u + 1$
c_3	$u^{26} + 2u^{25} + \dots + 10u^2 + 1$
c_4, c_5	$u^{26} + 2u^{25} + \dots + 2u + 1$
c_6	$u^{26} + 5u^{25} + \dots + 16u + 4$
	$u^{26} + u^{25} + \dots - 38u + 13$
<i>c</i> ₈	$u^{26} + u^{25} + \dots + u + 1$
<i>c</i> ₉	$u^{26} - 5u^{25} + \dots - 16u + 4$
c_{10}	$u^{26} - u^{25} + \dots + 3u + 1$
c_{11}	$u^{26} - 2u^{25} + \dots - 2u + 1$
c_{12}	$u^{26} - u^{25} + \dots - u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{26} + 12y^{25} + \dots - 1044y + 49$
c_2	$y^{26} - 7y^{25} + \dots - 7y + 1$
c_3	$y^{26} + 6y^{25} + \dots + 20y + 1$
c_4, c_5, c_{11}	$y^{26} + 28y^{25} + \dots - 2y + 1$
c_{6}, c_{9}	$y^{26} + 19y^{25} + \dots + 48y + 16$
	$y^{26} + 13y^{25} + \dots + 402y + 169$
c_8, c_{12}	$y^{26} - 11y^{25} + \dots - 21y + 1$
c_{10}	$y^{26} - 3y^{25} + \dots + 77y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.960119 + 0.265758I		
a = -0.865721 + 0.373600I	-4.25818 - 1.08751I	-6.83580 + 0.03087I
b = -0.084741 + 1.101490I		
u = 0.960119 - 0.265758I		
a = -0.865721 - 0.373600I	-4.25818 + 1.08751I	-6.83580 - 0.03087I
b = -0.084741 - 1.101490I		
u = -1.054200 + 0.354405I		
a = -0.135482 + 0.199760I	-1.43501 + 1.97726I	-0.64126 - 4.43069I
b = -0.470597 - 0.875277I		
u = -1.054200 - 0.354405I		
a = -0.135482 - 0.199760I	-1.43501 - 1.97726I	-0.64126 + 4.43069I
b = -0.470597 + 0.875277I		
u = -1.007140 + 0.507041I		
a = -1.14054 - 1.37225I	-5.86020 + 2.09818I	-2.54692 - 5.18070I
b = -0.208869 + 0.631292I		
u = -1.007140 - 0.507041I		
a = -1.14054 + 1.37225I	-5.86020 - 2.09818I	-2.54692 + 5.18070I
b = -0.208869 - 0.631292I		
u = -0.444960 + 1.086040I		
a = -0.162395 + 0.208043I	0.78338 + 2.62725I	-0.4991 - 24.3792I
b = 0.237746 - 0.229386I		
u = -0.444960 - 1.086040I		
a = -0.162395 - 0.208043I	0.78338 - 2.62725I	-0.4991 + 24.3792I
b = 0.237746 + 0.229386I		
u = -0.803695 + 0.076489I		
a = 1.395030 + 0.140155I	0.528666 + 0.091290I	82.3409 + 7.4167I
b = 1.39037 - 0.91387I		
u = -0.803695 - 0.076489I		
a = 1.395030 - 0.140155I	0.528666 - 0.091290I	82.3409 - 7.4167I
b = 1.39037 + 0.91387I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.462571 + 1.101380I		
a = -0.47701 + 2.15047I	4.91648 - 0.52982I	0.63138 + 6.27014I
b = 0.21416 - 1.45525I		
u = 0.462571 - 1.101380I		
a = -0.47701 - 2.15047I	4.91648 + 0.52982I	0.63138 - 6.27014I
b = 0.21416 + 1.45525I		
u = 1.201810 + 0.366511I		
a = -0.708024 - 0.242130I	-4.97637 - 6.17880I	-6.64629 + 6.66766I
b = -0.418255 - 0.082920I		
u = 1.201810 - 0.366511I		
a = -0.708024 + 0.242130I	-4.97637 + 6.17880I	-6.64629 - 6.66766I
b = -0.418255 + 0.082920I		
u = 0.608019 + 1.127160I		
a = 0.36868 - 1.86104I	6.89482 - 3.51056I	8.78887 + 6.66749I
b = 0.04734 + 1.50210I		
u = 0.608019 - 1.127160I		
a = 0.36868 + 1.86104I	6.89482 + 3.51056I	8.78887 - 6.66749I
b = 0.04734 - 1.50210I		
u = 0.675393 + 0.069978I		
a = 1.79298 + 1.77615I	-2.42704 + 4.22616I	-5.58020 - 10.10054I
b = 0.417235 - 0.297568I		
u = 0.675393 - 0.069978I		
a = 1.79298 - 1.77615I	-2.42704 - 4.22616I	-5.58020 + 10.10054I
b = 0.417235 + 0.297568I		
u = -1.317960 + 0.417827I		
a = -1.35617 - 0.48271I	0.42159 + 7.99851I	-0.97759 - 7.43929I
b = -0.12420 + 1.45986I		
u = -1.317960 - 0.417827I		
a = -1.35617 + 0.48271I	0.42159 - 7.99851I	-0.97759 + 7.43929I
b = -0.12420 - 1.45986I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.275590 + 0.594910I		
a = -1.11717 + 1.27143I	1.82130 - 5.71135I	-1.05320 + 3.00564I
b = -0.22257 - 1.44164I		
u = 1.275590 - 0.594910I		
a = -1.11717 - 1.27143I	1.82130 + 5.71135I	-1.05320 - 3.00564I
b = -0.22257 + 1.44164I		
u = -0.578294 + 0.025496I		
a = 1.87129 - 4.02484I	4.01860 - 5.98752I	1.67587 + 1.84987I
b = 0.10678 + 1.53450I		
u = -0.578294 - 0.025496I		
a = 1.87129 + 4.02484I	4.01860 + 5.98752I	1.67587 - 1.84987I
b = 0.10678 - 1.53450I		
u = 0.522750 + 0.238445I		
a = 1.53454 - 2.56686I	7.79662 - 3.07854I	3.34333 + 0.16527I
b = 0.11560 + 1.56506I		
u = 0.522750 - 0.238445I		
a = 1.53454 + 2.56686I	7.79662 + 3.07854I	3.34333 - 0.16527I
b = 0.11560 - 1.56506I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{26} - 12u^{25} + \dots - 36u + 7)(u^{126} + 9u^{125} + \dots + 177179u + 46852) $
c_2	$(u^{26} - u^{25} + \dots - u + 1)(u^{126} - 4u^{125} + \dots - 21u + 161)$
c_3	$(u^{26} + 2u^{25} + \dots + 10u^2 + 1)(u^{126} - 3u^{125} + \dots - 1627736u + 491149)$
c_4,c_5	$ (u^{26} + 2u^{25} + \dots + 2u + 1)(u^{126} - u^{125} + \dots - 44u + 1) $
c_6	$(u^{26} + 5u^{25} + \dots + 16u + 4)(u^{126} + 4u^{125} + \dots + 940u + 28)$
c ₇	$(u^{26} + u^{25} + \dots - 38u + 13)(u^{126} + 11u^{124} + \dots + 20491u + 4508)$
<i>C</i> ₈	$(u^{26} + u^{25} + \dots + u + 1)(u^{126} - 2u^{125} + \dots - 3299u + 1231)$
<i>c</i> 9	$(u^{26} - 5u^{25} + \dots - 16u + 4)(u^{126} + 4u^{125} + \dots + 940u + 28)$
c_{10}	$(u^{26} - u^{25} + \dots + 3u + 1)(u^{126} - 6u^{125} + \dots - 21u + 2)$
c_{11}	$(u^{26} - 2u^{25} + \dots - 2u + 1)(u^{126} - u^{125} + \dots - 44u + 1)$
c_{12}	$(u^{26} - u^{25} + \dots - u + 1)(u^{126} - 2u^{125} + \dots - 3299u + 1231)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{26} + 12y^{25} + \dots - 1044y + 49)$ $\cdot (y^{126} - 3y^{125} + \dots - 81214908545y + 2195109904)$
c_2	$ (y^{26} - 7y^{25} + \dots - 7y + 1)(y^{126} - 18y^{125} + \dots - 1745037y + 25921) $
c_3	$(y^{26} + 6y^{25} + \dots + 20y + 1)$ $\cdot (y^{126} + 43y^{125} + \dots + 11414107688058y + 241227340201)$
c_4, c_5, c_{11}	$(y^{26} + 28y^{25} + \dots - 2y + 1)(y^{126} + 129y^{125} + \dots - 144y + 1)$
c_6, c_9	$(y^{26} + 19y^{25} + \dots + 48y + 16)(y^{126} + 92y^{125} + \dots + 2432y + 784)$
C ₇	$(y^{26} + 13y^{25} + \dots + 402y + 169)$ $\cdot (y^{126} + 22y^{125} + \dots + 3435910495y + 20322064)$
c_8,c_{12}	$(y^{26} - 11y^{25} + \dots - 21y + 1)$ $\cdot (y^{126} - 66y^{125} + \dots - 35934251y + 1515361)$
c_{10}	$(y^{26} - 3y^{25} + \dots + 77y + 1)(y^{126} - 6y^{125} + \dots + 743y + 4)$