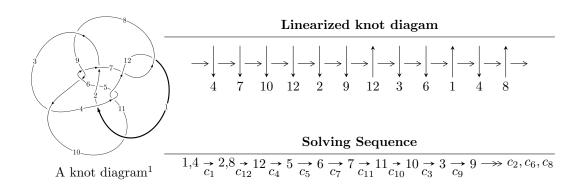
$12n_{0861} \ (K12n_{0861})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -3.52500 \times 10^{352} u^{75} + 2.44054 \times 10^{352} u^{74} + \dots + 7.62932 \times 10^{355} b - 3.61083 \times 10^{356}, \\ &1.06932 \times 10^{357} u^{75} - 9.06361 \times 10^{356} u^{74} + \dots + 1.73575 \times 10^{360} a + 3.60585 \times 10^{361}, \\ &u^{76} - u^{75} + \dots + 300923 u - 22751 \rangle \\ I_2^u &= \langle 1.63851 \times 10^{16} u^{28} - 1.05439 \times 10^{17} u^{27} + \dots + 2.06022 \times 10^{16} b + 2.70631 \times 10^{16}, \\ &- 1.08672 \times 10^{17} u^{28} + 6.98492 \times 10^{17} u^{27} + \dots + 2.06022 \times 10^{16} a - 1.87524 \times 10^{17}, \ u^{29} - 6u^{28} + \dots + 3u - 10^{17} u^{28} + 1$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 105 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.
$$I_1^u = \langle -3.52 \times 10^{352} u^{75} + 2.44 \times 10^{352} u^{74} + \dots + 7.63 \times 10^{355} b - 3.61 \times 10^{356}, \ 1.07 \times 10^{357} u^{75} - 9.06 \times 10^{356} u^{74} + \dots + 1.74 \times 10^{360} a + 3.61 \times 10^{361}, \ u^{76} - u^{75} + \dots + 300923 u - 22751 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_4 = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_8 = \begin{pmatrix} -0.000616058u^{75} + 0.000522174u^{74} + \cdots + 215.201u - 20.7741 \\ 0.000462033u^{75} - 0.000319890u^{74} + \cdots - 58.5348u + 4.73283 \end{pmatrix} \\ a_{12} = \begin{pmatrix} -0.000551004u^{75} + 0.000291524u^{74} + \cdots + 274.093u - 26.3938 \\ 0.000186949u^{75} - 0.000146137u^{74} + \cdots - 131.746u + 12.9652 \end{pmatrix} \\ a_5 = \begin{pmatrix} 0.0000761766u^{75} - 0.000159869u^{74} + \cdots - 182.673u + 18.3344 \\ 0.000150608u^{75} - 0.000110104u^{74} + \cdots - 11.9614u + 0.330376 \end{pmatrix} \\ a_6 = \begin{pmatrix} -0.000399552u^{75} + 0.000247574u^{74} + \cdots - 143.793u + 16.0999 \\ 0.000269364u^{75} - 0.00023992u^{74} + \cdots - 35.2152u + 1.88871 \end{pmatrix} \\ a_7 = \begin{pmatrix} -0.000554392u^{75} + 0.000760906u^{74} + \cdots + 286.400u - 25.1589 \\ 0.000189206u^{75} - 0.000484611u^{74} + \cdots - 184.889u + 14.2787 \end{pmatrix} \\ a_{11} = \begin{pmatrix} -0.000551004u^{75} + 0.000291524u^{74} + \cdots + 274.093u - 26.3938 \\ 0.000221974u^{75} - 0.000216748u^{74} + \cdots + 197.293u + 18.8687 \end{pmatrix} \\ a_{10} = \begin{pmatrix} -0.000772978u^{75} + 0.000508271u^{74} + \cdots + 471.387u - 45.2625 \\ 0.000221974u^{75} - 0.000216748u^{74} + \cdots + 197.293u + 18.8687 \end{pmatrix} \\ a_3 = \begin{pmatrix} -3.12392 \times 10^{-6}u^{75} - 0.000182643u^{74} + \cdots + 63.4430u - 9.84321 \\ 0.0000430791u^{75} + 0.000157885u^{74} + \cdots + 80.3500u - 6.25668 \end{pmatrix} \\ a_9 = \begin{pmatrix} -0.000272927u^{75} - 0.0000644983u^{74} + \cdots + 230.916u - 26.2228 \\ -0.0000751541u^{75} + 0.000223603u^{74} + \cdots + 230.916u - 26.2228 \\ -0.0000751541u^{75} + 0.000223603u^{74} + \cdots + 12.0363u + 4.65606 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.00205545u^{75} + 0.000950151u^{74} + \dots + 1477.37u 145.995$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{76} + u^{75} + \dots - 300923u - 22751$
c_2	$u^{76} - 2u^{75} + \dots - 180357u - 34261$
c_3	$u^{76} - 3u^{75} + \dots + 950u - 239$
c_4, c_{11}	$u^{76} + u^{75} + \dots - 1646518u - 62039$
<i>C</i> ₅	$u^{76} - 4u^{75} + \dots + 291884216u - 85317983$
c_6, c_9	$u^{76} - 3u^{75} + \dots - 42u + 23$
c_7, c_{12}	$u^{76} + 2u^{75} + \dots - u + 31$
c ₈	$u^{76} + u^{75} + \dots - 18688u - 11776$
c_{10}	$u^{76} + 6u^{75} + \dots + 2676u + 188$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{76} + 85y^{75} + \dots - 1833669277y + 517608001$
c_2	$y^{76} + 36y^{75} + \dots + 45049425637y + 1173816121$
c_3	$y^{76} - 31y^{75} + \dots - 1544932y + 57121$
c_4,c_{11}	$y^{76} + 111y^{75} + \dots + 216897789578y + 3848837521$
<i>c</i> ₅	$y^{76} + 74y^{75} + \dots - 351345007231565290y + 7279158223188289$
c_6, c_9	$y^{76} + 51y^{75} + \dots - 8066y + 529$
c_7, c_{12}	$y^{76} - 58y^{75} + \dots - 81903y + 961$
<i>c</i> ₈	$y^{76} + 15y^{75} + \dots + 1338966016y + 138674176$
c_{10}	$y^{76} - 96y^{75} + \dots - 10840512y + 35344$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.745344 + 0.628629I		
a = 0.638596 - 0.882206I	7.01585 - 1.22697I	0
b = -1.288040 - 0.178047I		
u = -0.745344 - 0.628629I		
a = 0.638596 + 0.882206I	7.01585 + 1.22697I	0
b = -1.288040 + 0.178047I		
u = 0.020527 + 0.950968I		
a = -1.127270 - 0.499083I	8.72656 - 0.96900I	0
b = -0.722798 + 0.214158I		
u = 0.020527 - 0.950968I		
a = -1.127270 + 0.499083I	8.72656 + 0.96900I	0
b = -0.722798 - 0.214158I		
u = 0.727085 + 0.569994I		
a = -0.801002 + 0.627162I	0.99072 - 2.35150I	0
b = 0.648815 + 0.029076I		
u = 0.727085 - 0.569994I		
a = -0.801002 - 0.627162I	0.99072 + 2.35150I	0
b = 0.648815 - 0.029076I		
u = 0.621479 + 0.677375I		
a = -0.16397 - 1.43224I	3.03454 + 6.06445I	0
b = 1.386790 + 0.087175I		
u = 0.621479 - 0.677375I		
a = -0.16397 + 1.43224I	3.03454 - 6.06445I	0
b = 1.386790 - 0.087175I		
u = -0.126756 + 0.902600I		
a = -0.109634 + 0.577545I	1.54671 - 3.66888I	-6.00000 + 0.I
b = 0.404644 + 0.757455I		
u = -0.126756 - 0.902600I		
a = -0.109634 - 0.577545I	1.54671 + 3.66888I	-6.00000 + 0.I
b = 0.404644 - 0.757455I		

	Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u =	0.825725 + 0.760842I	,	
a =	0.390520 + 0.782654I	-0.60298 + 1.46108I	0
b =	-1.279230 - 0.250596I		
u =	0.825725 - 0.760842I		
a =	0.390520 - 0.782654I	-0.60298 - 1.46108I	0
b =	-1.279230 + 0.250596I		
u =	0.360627 + 0.796177I		
a =	0.508375 - 0.143903I	-1.343280 + 0.170584I	-9.40191 + 0.I
b =	-0.720350 - 0.667858I		
u =	0.360627 - 0.796177I		
a =	0.508375 + 0.143903I	-1.343280 - 0.170584I	-9.40191 + 0.I
b =	-0.720350 + 0.667858I		
u =	1.118660 + 0.264884I		
a =	0.864685 + 0.423066I	-0.156617 + 0.099671I	0
b =	-0.841814 - 0.122191I		
u =	1.118660 - 0.264884I		
a =	0.864685 - 0.423066I	-0.156617 - 0.099671I	0
b =	-0.841814 + 0.122191I		
u =	0.763976 + 0.362230I		
a =	0.98638 + 1.88979I	-4.31920 - 3.42786I	-19.8780 + 4.5386I
b =	-0.402873 + 1.099930I		
u =	0.763976 - 0.362230I		
a =	0.98638 - 1.88979I	-4.31920 + 3.42786I	-19.8780 - 4.5386I
b =	-0.402873 - 1.099930I		
u =	0.085627 + 0.830294I		
a =	-0.607873 - 1.037560I	3.67066 - 8.51476I	0. + 8.44330I
b =			
u =	0.085627 - 0.830294I		
a =	-0.607873 + 1.037560I	3.67066 + 8.51476I	0 8.44330I
b =	1.106530 + 0.524906I		

u = -1.218030 + 0.054638I $a = -0.196176 + 0.535276I$ $b = 1.37856 + 0.40360I$ $u = -1.218030 - 0.054638I$ $a = -0.196176 - 0.535276I$ $b = 1.37856 - 0.40360I$	2.04240 + 2.56590I $2.04240 - 2.56590I$	0
b = 1.37856 + 0.40360I $u = -1.218030 - 0.054638I$ $a = -0.196176 - 0.535276I$ $b = 1.37856 - 0.40360I$		
u = -1.218030 - 0.054638I $a = -0.196176 - 0.535276I$ $b = 1.37856 - 0.40360I$	2.04240 - 2.56590I	
a = -0.196176 - 0.535276I $b = 1.37856 - 0.40360I$	2.04240 - 2.56590I	
b = 1.37856 - 0.40360I	2.04240 - 2.56590I	
		0
u = 0.272344 + 1.191320I		
a = -0.033570 + 0.340343I	2.51398 - 2.03885I	0
b = 0.363637 - 0.018798I		
u = 0.272344 - 1.191320I		
a = -0.033570 - 0.340343I	2.51398 + 2.03885I	0
b = 0.363637 + 0.018798I		
u = 0.147091 + 0.751571I		
a = 0.750874 + 0.500899I	-0.23633 - 4.75906I	-6.00000 + 8.13977I
b = -1.008700 + 0.583869I		
u = 0.147091 - 0.751571I		
a = 0.750874 - 0.500899I	-0.23633 + 4.75906I	-6.00000 - 8.13977I
b = -1.008700 - 0.583869I		
u = -1.202870 + 0.464965I		
a = -0.214421 + 1.159960I	-1.75971 + 3.56787I	0
b = 0.395217 + 1.242940I		
u = -1.202870 - 0.464965I		
a = -0.214421 - 1.159960I	-1.75971 - 3.56787I	0
b = 0.395217 - 1.242940I		
u = 0.180012 + 0.660238I		
a = -1.42717 + 0.72834I	2.60983 - 3.55639I	-1.71782 + 4.54707I
b = 0.987544 - 0.454175I		
u = 0.180012 - 0.660238I		
a = -1.42717 - 0.72834I	2.60983 + 3.55639I	-1.71782 - 4.54707I
b = 0.987544 + 0.454175I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.265518 + 0.599050I		
a = 0.898932 - 0.825195I	1.50045 - 3.70876I	-1.41090 + 2.23872I
b = -0.984381 + 0.600542I		
u = 0.265518 - 0.599050I		
a = 0.898932 + 0.825195I	1.50045 + 3.70876I	-1.41090 - 2.23872I
b = -0.984381 - 0.600542I		
u = -0.577191 + 0.293566I		
a = 2.84221 + 1.82785I	-1.52793 + 5.92164I	-15.0040 - 10.8200I
b = 0.207376 + 0.118904I		
u = -0.577191 - 0.293566I		
a = 2.84221 - 1.82785I	-1.52793 - 5.92164I	-15.0040 + 10.8200I
b = 0.207376 - 0.118904I		
u = 0.576435 + 0.027198I		
a = 0.345959 - 0.803920I	-0.192361 - 0.594079I	-7.06569 + 1.37870I
b = -0.225583 + 0.466790I		
u = 0.576435 - 0.027198I		
a = 0.345959 + 0.803920I	-0.192361 + 0.594079I	-7.06569 - 1.37870I
b = -0.225583 - 0.466790I		
u = -0.561296		
a = -4.20681	-5.66991	-25.0200
b = -0.187845		
u = 0.559589		40.000
a = 0.749078	-0.827641	-12.6600
b = -0.400812		
u = 0.25722 + 1.42794I		
a = 2.05582 + 0.52788I	11.20280 - 0.15528I	0
b = -1.274310 - 0.019943I		
u = 0.25722 - 1.42794I		_
a = 2.05582 - 0.52788I	11.20280 + 0.15528I	0
b = -1.274310 + 0.019943I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.97136 + 1.08637I		
a = -0.995241 - 0.731028I	2.35456 - 2.27995I	0
b = 1.135640 + 0.056806I		
u = 0.97136 - 1.08637I		
a = -0.995241 + 0.731028I	2.35456 + 2.27995I	0
b = 1.135640 - 0.056806I		
u = 0.30853 + 1.43443I		
a = 0.284046 - 0.099194I	4.40418 - 4.79001I	0
b = -0.277549 - 0.312634I		
u = 0.30853 - 1.43443I		
a = 0.284046 + 0.099194I	4.40418 + 4.79001I	0
b = -0.277549 + 0.312634I		
u = -0.067455 + 0.452588I		
a = 0.477832 + 0.316060I	1.43480 - 1.90006I	-0.70055 + 2.19888I
b = 0.930631 - 0.514027I		
u = -0.067455 - 0.452588I		
a = 0.477832 - 0.316060I	1.43480 + 1.90006I	-0.70055 - 2.19888I
b = 0.930631 + 0.514027I		
u = -1.55658 + 0.38390I		
a = 0.407638 - 0.407877I	4.94644 + 8.22620I	0
b = -1.46643 - 0.28303I		
u = -1.55658 - 0.38390I		
a = 0.407638 + 0.407877I	4.94644 - 8.22620I	0
b = -1.46643 + 0.28303I		
u = -0.26666 + 1.59851I		
a = -0.215919 - 0.059608I	9.54808 - 2.17862I	0
b = -0.210777 + 1.071740I		
u = -0.26666 - 1.59851I		
a = -0.215919 + 0.059608I	9.54808 + 2.17862I	0
b = -0.210777 - 1.071740I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.01828 + 1.67725I		
a = -1.61898 + 0.17473I	10.91570 - 4.00758I	0
b = 1.52774 - 0.01220I		
u = 0.01828 - 1.67725I		
a = -1.61898 - 0.17473I	10.91570 + 4.00758I	0
b = 1.52774 + 0.01220I		
u = 0.282838 + 0.079836I		
a = -1.25772 + 1.67744I	0.84979 - 1.97171I	-2.94349 + 5.82225I
b = 0.704308 - 0.473313I		
u = 0.282838 - 0.079836I		
a = -1.25772 - 1.67744I	0.84979 + 1.97171I	-2.94349 - 5.82225I
b = 0.704308 + 0.473313I		
u = 0.44868 + 1.68762I		
a = -1.54430 - 0.42875I	5.65141 - 2.61228I	0
b = 1.261110 - 0.081880I		
u = 0.44868 - 1.68762I		
a = -1.54430 + 0.42875I	5.65141 + 2.61228I	0
b = 1.261110 + 0.081880I		
u = -0.69546 + 1.62144I		
a = 1.147750 - 0.810044I	12.83640 + 4.42759I	0
b = -1.37785 - 0.72108I		
u = -0.69546 - 1.62144I		
a = 1.147750 + 0.810044I	12.83640 - 4.42759I	0
b = -1.37785 + 0.72108I		
u = -0.03860 + 1.79969I		
a = 1.389460 - 0.106592I	9.56745 - 3.21352I	0
b = -1.57865 + 0.10854I		
u = -0.03860 - 1.79969I		
a = 1.389460 + 0.106592I	9.56745 + 3.21352I	0
b = -1.57865 - 0.10854I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.24078 + 1.82244I		
a = -0.1001830 - 0.0695988I	7.24266 + 9.15838I	0
b = -0.00953 + 1.44601I		
u = -0.24078 - 1.82244I		
a = -0.1001830 + 0.0695988I	7.24266 - 9.15838I	0
b = -0.00953 - 1.44601I		
u = -0.38183 + 1.81667I		
a = 0.1287720 + 0.0315564I	3.74470 + 2.77968I	0
b = 0.23828 - 1.46403I		
u = -0.38183 - 1.81667I		
a = 0.1287720 - 0.0315564I	3.74470 - 2.77968I	0
b = 0.23828 + 1.46403I		
u = -0.67554 + 1.79315I		
a = -1.146360 + 0.625617I	7.94098 + 10.39540I	0
b = 1.49240 + 0.68959I		
u = -0.67554 - 1.79315I		
a = -1.146360 - 0.625617I	7.94098 - 10.39540I	0
b = 1.49240 - 0.68959I		
u = -0.59997 + 1.83527I		
a = 1.210690 - 0.563117I	12.0200 + 16.4075I	0
b = -1.50417 - 0.64157I		
u = -0.59997 - 1.83527I		
a = 1.210690 + 0.563117I	12.0200 - 16.4075I	0
b = -1.50417 + 0.64157I		
u = 0.03558 + 1.95180I		
a = -1.300520 - 0.212919I	14.6402 - 7.6727I	0
b = 1.43479 - 0.47900I		
u = 0.03558 - 1.95180I		
a = -1.300520 + 0.212919I	14.6402 + 7.6727I	0
b = 1.43479 + 0.47900I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.05564 + 1.95942I		
a = 1.251980 + 0.136007I	10.27980 - 3.77420I	0
b = -1.58037 + 0.38673I		
u = 0.05564 - 1.95942I		
a = 1.251980 - 0.136007I	10.27980 + 3.77420I	0
b = -1.58037 - 0.38673I		
u = 0.38826 + 1.93316I		
a = 1.42376 + 0.30397I	7.68773 - 6.74339I	0
b = -1.262730 + 0.174887I		
u = 0.38826 - 1.93316I		
a = 1.42376 - 0.30397I	7.68773 + 6.74339I	0
b = -1.262730 - 0.174887I		
u = 0.16244 + 1.98102I		
a = -1.132750 - 0.227902I	12.71850 + 1.45775I	0
b = 1.70644 - 0.59120I		
u = 0.16244 - 1.98102I		
a = -1.132750 + 0.227902I	12.71850 - 1.45775I	0
b = 1.70644 + 0.59120I		

 $II. \\ I_2^u = \langle 1.64 \times 10^{16} u^{28} - 1.05 \times 10^{17} u^{27} + \dots + 2.06 \times 10^{16} b + 2.71 \times 10^{16}, \ -1.09 \times 10^{17} u^{28} + 6.98 \times 10^{17} u^{27} + \dots + 2.06 \times 10^{16} a - 1.88 \times 10^{17}, \ u^{29} - 6u^{28} + \dots + 3u + 1 \rangle$

(i) Arc colorings

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

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

$$a_{3} = \begin{pmatrix} 5.27476u^{28} - 33.9037u^{27} + \dots + 8.71342u + 9.10213 \\ -0.795306u^{28} + 5.11785u^{27} + \dots - 1.44520u - 1.31360 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 5.27476u^{28} - 33.9037u^{27} + \dots + 8.71342u + 9.10213 \\ -0.795306u^{28} + 5.11785u^{27} + \dots - 0.432124u - 3.91280 \\ 0.100754u^{28} - 0.413558u^{27} + \dots - 0.187948u + 0.327168 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.979568u^{28} - 5.87044u^{27} + \dots + 0.0162660u + 4.14203 \\ -0.113181u^{28} + 0.795544u^{27} + \dots + 2.01581u + 0.135065 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u^{28} - 6u^{27} + \dots - 3u + 4 \\ -0.0204323u^{28} + 0.129558u^{27} + \dots + 2.01627u + 0.142029 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 4.09510u^{28} - 26.3923u^{27} + \dots + 7.13642u + 6.99365 \\ -0.820942u^{28} + 5.02861u^{27} + \dots - 0.0730875u - 0.703261 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.873952u^{28} + 5.57757u^{27} + \dots - 0.432124u - 3.91280 \\ 0.184622u^{28} - 1.08159u^{27} + \dots - 0.0603329u + 0.661024 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.05857u^{28} + 6.65916u^{27} + \dots - 0.371791u - 4.57382 \\ 0.184622u^{28} - 1.08159u^{27} + \dots - 0.0603329u + 0.661024 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.982205u^{28} + 6.25792u^{27} + \dots + 2.82992u - 4.37507 \\ -0.0177953u^{28} - 0.257924u^{27} + \dots + 0.170078u + 0.375072 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.517381u^{28} - 3.85054u^{27} + \dots - 1.46246u - 1.45227 \\ 0.366015u^{28} - 2.30882u^{27} + \dots + 1.01287u + 1.15728 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes (iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{29} - 6u^{28} + \dots + 3u + 1$
c_2	$u^{29} - u^{28} + \dots - u + 1$
c_3	$u^{29} - 2u^{28} + \dots + 2u + 9$
c_4	$u^{29} + 10u^{27} + \dots + 2u + 1$
c_5	$u^{29} - 3u^{28} + \dots + 8u - 3$
c_6	$u^{29} - 4u^{28} + \dots + 8u - 5$
c_7	$u^{29} + u^{28} + \dots - 3u - 1$
c_8	$u^{29} - 2u^{27} + \dots + u - 1$
<i>c</i> ₉	$u^{29} + 4u^{28} + \dots + 8u + 5$
c_{10}	$u^{29} + 11u^{28} + \dots + 272u + 64$
c_{11}	$u^{29} + 10u^{27} + \dots + 2u - 1$
c_{12}	$u^{29} - u^{28} + \dots - 3u + 1$
-	•

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{29} + 14y^{28} + \dots + 13y - 1$
c_2	$y^{29} + 5y^{28} + \dots - 25y - 1$
c_3	$y^{29} - 22y^{28} + \dots + 1120y - 81$
c_4, c_{11}	$y^{29} + 20y^{28} + \dots - 6y - 1$
c_5	$y^{29} + 23y^{28} + \dots - 2210y - 9$
c_6, c_9	$y^{29} + 20y^{28} + \dots - 246y - 25$
c_7, c_{12}	$y^{29} - 17y^{28} + \dots + 15y - 1$
c ₈	$y^{29} - 4y^{28} + \dots + 19y - 1$
c_{10}	$y^{29} - 31y^{28} + \dots + 35456y - 4096$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.259109 + 0.945037I		
a = -1.080660 - 0.357074I	8.64197 + 0.21685I	-2.86434 + 2.12533I
b = -0.780404 - 0.324779I		
u = 0.259109 - 0.945037I		
a = -1.080660 + 0.357074I	8.64197 - 0.21685I	-2.86434 - 2.12533I
b = -0.780404 + 0.324779I		
u = 0.704526 + 0.745254I		
a = 0.972567 - 0.007301I	0.82005 - 4.34238I	-9.35046 + 9.67287I
b = -0.897192 + 0.447753I		
u = 0.704526 - 0.745254I		
a = 0.972567 + 0.007301I	0.82005 + 4.34238I	-9.35046 - 9.67287I
b = -0.897192 - 0.447753I		
u = 1.096450 + 0.340678I		
a = -0.782276 + 0.014378I	-0.096889 + 1.059210I	-5.71610 - 5.66520I
b = 0.952711 + 0.288700I		
u = 1.096450 - 0.340678I		
a = -0.782276 - 0.014378I	-0.096889 - 1.059210I	-5.71610 + 5.66520I
b = 0.952711 - 0.288700I		
u = -0.731144 + 0.434174I		
a = 1.00977 - 1.81449I	-3.92079 + 3.42406I	1.01570 - 3.66847I
b = -0.401645 - 1.267120I		
u = -0.731144 - 0.434174I		
a = 1.00977 + 1.81449I	-3.92079 - 3.42406I	1.01570 + 3.66847I
b = -0.401645 + 1.267120I		
u = 1.135540 + 0.454612I		
a = -0.159669 - 1.216070I	-2.22120 - 3.35796I	-11.56383 + 0.08079I
b = 0.461864 - 1.034650I		
u = 1.135540 - 0.454612I		
a = -0.159669 + 1.216070I	-2.22120 + 3.35796I	-11.56383 - 0.08079I
b = 0.461864 + 1.034650I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.851882 + 0.878765I		
a = 1.077320 + 0.062467I	0.835073 - 0.864790I	-3.44234 + 1.11234I
b = -0.923927 - 0.409470I		
u = 0.851882 - 0.878765I		
a = 1.077320 - 0.062467I	0.835073 + 0.864790I	-3.44234 - 1.11234I
b = -0.923927 + 0.409470I		
u = 0.754297 + 0.141451I		
a = -0.841119 + 0.675278I	0.565382 + 1.291710I	-7.41669 + 1.05659I
b = 1.035810 + 0.412800I		
u = 0.754297 - 0.141451I		
a = -0.841119 - 0.675278I	0.565382 - 1.291710I	-7.41669 - 1.05659I
b = 1.035810 - 0.412800I		
u = -0.479702 + 0.524804I		
a = -0.255705 - 0.662679I	-0.81307 - 3.28943I	-7.56569 + 2.62758I
b = -1.227420 + 0.667940I		
u = -0.479702 - 0.524804I		
a = -0.255705 + 0.662679I	-0.81307 + 3.28943I	-7.56569 - 2.62758I
b = -1.227420 - 0.667940I		
u = -0.634588 + 0.145110I		
a = 1.023890 + 0.427581I	2.06821 + 7.80740I	-5.10645 - 6.62516I
b = 1.288000 + 0.395187I		
u = -0.634588 - 0.145110I		
a = 1.023890 - 0.427581I	2.06821 - 7.80740I	-5.10645 + 6.62516I
b = 1.288000 - 0.395187I		
u = 0.292740 + 1.369130I		
a = 0.271069 + 0.041571I	1.86887 - 2.01799I	-10.56338 + 1.39675I
b = 0.052853 + 0.634842I		
u = 0.292740 - 1.369130I		
a = 0.271069 - 0.041571I	1.86887 + 2.01799I	-10.56338 - 1.39675I
b = 0.052853 - 0.634842I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.20003 + 1.41050I		
a = -0.379616 - 0.305394I	4.64971 - 5.47671I	-0.30377 + 8.70786I
b = 0.478129 - 0.287288I		
u = 0.20003 - 1.41050I		
a = -0.379616 + 0.305394I	4.64971 + 5.47671I	-0.30377 - 8.70786I
b = 0.478129 + 0.287288I		
u = -0.398804 + 0.328085I		
a = -3.88733 - 2.80334I	-1.15102 + 5.69646I	1.06495 - 1.13297I
b = 0.604532 - 0.070140I		
u = -0.398804 - 0.328085I		
a = -3.88733 + 2.80334I	-1.15102 - 5.69646I	1.06495 + 1.13297I
b = 0.604532 + 0.070140I		
u = 0.17820 + 1.57230I		
a = 1.78506 + 0.24543I	11.35920 - 2.31492I	0.59328 + 1.42865I
b = -1.42479 + 0.21602I		
u = 0.17820 - 1.57230I		
a = 1.78506 - 0.24543I	11.35920 + 2.31492I	0.59328 - 1.42865I
b = -1.42479 - 0.21602I		
u = -0.403835		
a = 6.22569	-5.33901	0.139890
b = -0.575344		
u = -0.02661 + 1.85032I		
a = -1.366150 + 0.138779I	9.67281 - 4.05990I	-3.35082 + 7.08829I
b = 1.56915 - 0.00379I		
u = -0.02661 - 1.85032I		
a = -1.366150 - 0.138779I	9.67281 + 4.05990I	-3.35082 - 7.08829I
b = 1.56915 + 0.00379I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{29} - 6u^{28} + \dots + 3u + 1)(u^{76} + u^{75} + \dots - 300923u - 22751) $
c_2	$(u^{29} - u^{28} + \dots - u + 1)(u^{76} - 2u^{75} + \dots - 180357u - 34261)$
c_3	$(u^{29} - 2u^{28} + \dots + 2u + 9)(u^{76} - 3u^{75} + \dots + 950u - 239)$
C ₄	$(u^{29} + 10u^{27} + \dots + 2u + 1)(u^{76} + u^{75} + \dots - 1646518u - 62039)$
c_5	$(u^{29} - 3u^{28} + \dots + 8u - 3)$ $\cdot (u^{76} - 4u^{75} + \dots + 291884216u - 85317983)$
<i>c</i> ₆	$(u^{29} - 4u^{28} + \dots + 8u - 5)(u^{76} - 3u^{75} + \dots - 42u + 23)$
c_7	$(u^{29} + u^{28} + \dots - 3u - 1)(u^{76} + 2u^{75} + \dots - u + 31)$
c_8	$ (u^{29} - 2u^{27} + \dots + u - 1)(u^{76} + u^{75} + \dots - 18688u - 11776) $
c_9	$(u^{29} + 4u^{28} + \dots + 8u + 5)(u^{76} - 3u^{75} + \dots - 42u + 23)$
c_{10}	$(u^{29} + 11u^{28} + \dots + 272u + 64)(u^{76} + 6u^{75} + \dots + 2676u + 188)$
c_{11}	$(u^{29} + 10u^{27} + \dots + 2u - 1)(u^{76} + u^{75} + \dots - 1646518u - 62039)$
c_{12}	$(u^{29} - u^{28} + \dots - 3u + 1)(u^{76} + 2u^{75} + \dots - u + 31)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{29} + 14y^{28} + \dots + 13y - 1)$ $\cdot (y^{76} + 85y^{75} + \dots - 1833669277y + 517608001)$
c_2	$(y^{29} + 5y^{28} + \dots - 25y - 1)$ $\cdot (y^{76} + 36y^{75} + \dots + 45049425637y + 1173816121)$
c_3	$(y^{29} - 22y^{28} + \dots + 1120y - 81)$ $\cdot (y^{76} - 31y^{75} + \dots - 1544932y + 57121)$
c_4, c_{11}	$(y^{29} + 20y^{28} + \dots - 6y - 1)$ $\cdot (y^{76} + 111y^{75} + \dots + 216897789578y + 3848837521)$
c_5	$(y^{29} + 23y^{28} + \dots - 2210y - 9)$ $\cdot (y^{76} + 74y^{75} + \dots - 351345007231565290y + 7279158223188289)$
c_6, c_9	$(y^{29} + 20y^{28} + \dots - 246y - 25)(y^{76} + 51y^{75} + \dots - 8066y + 529)$
c_7, c_{12}	$(y^{29} - 17y^{28} + \dots + 15y - 1)(y^{76} - 58y^{75} + \dots - 81903y + 961)$
c_8	$(y^{29} - 4y^{28} + \dots + 19y - 1)$ $\cdot (y^{76} + 15y^{75} + \dots + 1338966016y + 138674176)$
c_{10}	$(y^{29} - 31y^{28} + \dots + 35456y - 4096)$ $\cdot (y^{76} - 96y^{75} + \dots - 10840512y + 35344)$