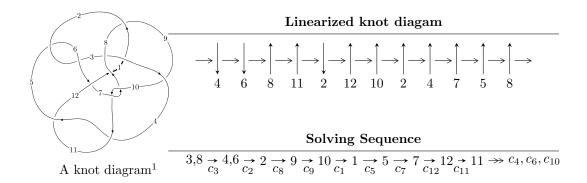
$12n_{0769} \ (K12n_{0769})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 3.83864 \times 10^{337} u^{65} - 1.18349 \times 10^{338} u^{64} + \dots + 1.06451 \times 10^{342} b - 1.02256 \times 10^{342}, \\ &- 1.56678 \times 10^{341} u^{65} + 4.83301 \times 10^{341} u^{64} + \dots + 1.39504 \times 10^{345} a - 4.89344 \times 10^{345}, \\ &u^{66} - 3 u^{65} + \dots + 1022 u - 2621 \rangle \\ I_2^u &= \langle -5.16198 \times 10^{14} u^{22} + 4.96659 \times 10^{15} u^{21} + \dots + 6.69596 \times 10^{15} b - 5.25349 \times 10^{15}, \\ &- 1.04392 \times 10^{16} u^{22} + 4.70651 \times 10^{16} u^{21} + \dots + 6.69596 \times 10^{15} a + 1.86768 \times 10^{16}, \ u^{23} - 4 u^{22} + \dots - 2 u - 10^{16} u^{21} + \dots + 0.69596 \times 10^{16} u^{21} + \dots + 0.69596 \times 10^{15} u$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 89 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.
$$I_1^u = \langle 3.84 \times 10^{337} u^{65} - 1.18 \times 10^{338} u^{64} + \dots + 1.06 \times 10^{342} b - 1.02 \times 10^{342}, \ -1.57 \times 10^{341} u^{65} + 4.83 \times 10^{341} u^{64} + \dots + 1.40 \times 10^{345} a - 4.89 \times 10^{345}, \ u^{66} - 3u^{65} + \dots + 1022u - 2621 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_6 = \begin{pmatrix} 0.000112311u^{65} - 0.000346443u^{64} + \cdots - 0.270457u + 3.50774 \\ -0.0000360602u^{65} + 0.000111177u^{64} + \cdots + 0.748848u + 0.960593 \end{pmatrix} \\ a_2 = \begin{pmatrix} -0.0000377394u^{65} + 0.000109948u^{64} + \cdots - 0.553697u - 3.17735 \\ 0.0000688159u^{65} - 0.000214201u^{64} + \cdots - 1.70637u - 0.657455 \end{pmatrix} \\ a_9 = \begin{pmatrix} 0.0000148168u^{65} - 0.0000484765u^{64} + \cdots + 10.6401u + 0.738371 \\ 0.0000284980u^{65} - 0.0000667785u^{64} + \cdots + 3.25127u - 0.315788 \end{pmatrix} \\ a_{10} = \begin{pmatrix} 0.0000381472u^{65} - 0.000101304u^{64} + \cdots + 13.9343u + 0.412030 \\ 0.0000323377u^{65} - 0.0000782973u^{64} + \cdots + 3.20767u - 0.360774 \end{pmatrix} \\ a_1 = \begin{pmatrix} 0.000035409u^{65} - 0.000101770u^{64} + \cdots - 2.35564u - 3.84338 \\ 0.0000751505u^{65} - 0.000234189u^{64} + \cdots - 1.89236u - 0.639428 \end{pmatrix} \\ a_5 = \begin{pmatrix} 0.000151268u^{65} - 0.000479153u^{64} + \cdots - 2.21265u + 0.437691 \\ 0.0000458801u^{65} - 0.000147106u^{64} + \cdots - 1.73849u + 0.898946 \end{pmatrix} \\ a_7 = \begin{pmatrix} 0.000249270u^{65} - 0.000703271u^{64} + \cdots - 2.14183u - 0.415613 \\ 0.0000538303u^{65} - 0.000153736u^{64} + \cdots - 0.578342u - 0.793468 \end{pmatrix} \\ a_{12} = \begin{pmatrix} 0.000035409u^{65} - 0.000101770u^{64} + \cdots - 2.35564u - 3.84338 \\ 0.0000682803u^{65} - 0.00011770u^{64} + \cdots - 1.80195u - 0.666025 \end{pmatrix} \\ a_{11} = \begin{pmatrix} -0.000148371u^{65} + 0.000457620u^{64} + \cdots + 1.01930u - 2.54715 \\ -0.0000173746u^{65} + 0.0000555578u^{64} + \cdots + 1.0940765u - 1.04993 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.000277598u^{65} + 0.000900711u^{64} + \cdots + 12.6909u + 2.52964$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{66} - 4u^{65} + \dots + 251u + 131$
c_2, c_5	$u^{66} + 2u^{65} + \dots - 21u + 1$
c_3	$u^{66} - 3u^{65} + \dots + 1022u - 2621$
c_4, c_{11}	$u^{66} + 5u^{65} + \dots - 402u - 171$
<i>c</i> ₆	$u^{66} - 2u^{65} + \dots - 40871u - 2788$
c_7, c_{10}	$u^{66} + 6u^{65} + \dots + 224u + 16$
c_8	$u^{66} + 47u^{64} + \dots + 18353u - 20690$
<i>c</i> ₉	$u^{66} - u^{65} + \dots + 28988118u - 18025751$
c_{12}	$u^{66} - 3u^{65} + \dots + 418122130u - 132292613$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{66} - 94y^{65} + \dots - 1810017y + 17161$
c_{2}, c_{5}	$y^{66} - 48y^{65} + \dots - 193y + 1$
c_3	$y^{66} + 83y^{65} + \dots + 198203936y + 6869641$
c_4, c_{11}	$y^{66} - 29y^{65} + \dots - 842526y + 29241$
<i>C</i> ₆	$y^{66} + 20y^{65} + \dots - 290997577y + 7772944$
c_7, c_{10}	$y^{66} + 46y^{65} + \dots + 58848y^2 + 256$
<i>c</i> ₈	$y^{66} + 94y^{65} + \dots - 15224156589y + 428076100$
<i>c</i> ₉	$y^{66} + 69y^{65} + \dots + 2987872480868112y + 324927699114001$
c_{12}	$y^{66} + 89y^{65} + \dots + 205846697467622796y + 17501335454367769$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.550266 + 0.896602I		
a = -0.664287 - 1.148930I	-3.94389 - 6.56961I	0
b = -1.45948 - 0.16916I		
u = 0.550266 - 0.896602I		
a = -0.664287 + 1.148930I	-3.94389 + 6.56961I	0
b = -1.45948 + 0.16916I		
u = -0.543655 + 0.904183I		
a = -0.968879 - 0.052917I	-3.67929 + 0.01280I	0
b = -1.049230 - 0.220101I		
u = -0.543655 - 0.904183I		
a = -0.968879 + 0.052917I	-3.67929 - 0.01280I	0
b = -1.049230 + 0.220101I		
u = 0.727225 + 0.435479I		
a = 1.92650 - 1.46275I	1.88021 + 5.73599I	12.0656 - 12.6009I
b = 0.0406553 + 0.0835342I		
u = 0.727225 - 0.435479I		
a = 1.92650 + 1.46275I	1.88021 - 5.73599I	12.0656 + 12.6009I
b = 0.0406553 - 0.0835342I		
u = -0.827890 + 0.059202I		
a = 0.05599 - 1.88565I	3.42513 - 3.10241I	9.91560 + 5.14976I
b = 0.451189 + 1.104720I		
u = -0.827890 - 0.059202I		
a = 0.05599 + 1.88565I	3.42513 + 3.10241I	9.91560 - 5.14976I
b = 0.451189 - 1.104720I		
u = -0.664488 + 0.463174I		
a = 0.27357 - 1.57982I	-5.21721 + 2.27069I	1.36837 + 2.87034I
b = 1.178760 + 0.161389I		
u = -0.664488 - 0.463174I		
a = 0.27357 + 1.57982I	-5.21721 - 2.27069I	1.36837 - 2.87034I
b = 1.178760 - 0.161389I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.977420 + 0.705417I		
a = -0.661293 - 1.175570I	3.03137 + 3.75606I	0
b = -0.332722 + 1.184590I		
u = 0.977420 - 0.705417I		
a = -0.661293 + 1.175570I	3.03137 - 3.75606I	0
b = -0.332722 - 1.184590I		
u = -0.786749 + 0.925118I		
a = -0.453089 + 0.514372I	-1.16081 + 2.14752I	0
b = -1.38895 + 0.39471I		
u = -0.786749 - 0.925118I		
a = -0.453089 - 0.514372I	-1.16081 - 2.14752I	0
b = -1.38895 - 0.39471I		
u = -0.047405 + 1.254290I		
a = -0.190093 - 0.333212I	-2.79710 + 1.27551I	0
b = -0.512278 + 0.035499I		
u = -0.047405 - 1.254290I		
a = -0.190093 + 0.333212I	-2.79710 - 1.27551I	0
b = -0.512278 - 0.035499I		
u = -0.731486		
a = 3.23812	5.84339	27.4510
b = 0.0576281		
u = -0.031783 + 1.279140I		
a = 0.215329 + 0.518435I	-7.92413 - 3.65685I	0
b = -0.615807 - 0.121803I		
u = -0.031783 - 1.279140I		
a = 0.215329 - 0.518435I	-7.92413 + 3.65685I	0
b = -0.615807 + 0.121803I		
u = 1.239970 + 0.427685I		
a = 0.320121 + 0.726029I	-0.04669 + 2.02198I	0
b = 1.300250 - 0.297303I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.239970 - 0.427685I		
a = 0.320121 - 0.726029I	-0.04669 - 2.02198I	0
b = 1.300250 + 0.297303I		
u = -0.615400 + 0.298327I		
a = -0.804927 - 0.243840I	-2.56683 - 1.80846I	4.39793 + 4.09734I
b = -0.077417 - 0.366976I		
u = -0.615400 - 0.298327I		
a = -0.804927 + 0.243840I	-2.56683 + 1.80846I	4.39793 - 4.09734I
b = -0.077417 + 0.366976I		
u = -0.231289 + 0.589186I		
a = -0.781525 - 0.000516I	-1.68768 + 1.21202I	-0.72929 - 4.22771I
b = -0.973316 + 0.353834I		
u = -0.231289 - 0.589186I		
a = -0.781525 + 0.000516I	-1.68768 - 1.21202I	-0.72929 + 4.22771I
b = -0.973316 - 0.353834I		
u = 0.353427 + 0.445086I		
a = -0.479282 - 0.103589I	0.61831 - 2.78529I	6.08241 + 0.51566I
b = 0.297714 - 0.781830I		
u = 0.353427 - 0.445086I		
a = -0.479282 + 0.103589I	0.61831 + 2.78529I	6.08241 - 0.51566I
b = 0.297714 + 0.781830I		
u = 0.229774 + 0.456770I		
a = -0.432205 - 0.068370I	2.23371 - 0.09039I	7.37287 - 0.87265I
b = 0.560078 + 0.763611I		
u = 0.229774 - 0.456770I		
a = -0.432205 + 0.068370I	2.23371 + 0.09039I	7.37287 + 0.87265I
b = 0.560078 - 0.763611I		
u = -0.20016 + 1.57518I		
a = -1.81945 + 0.48506I	-10.50220 + 3.38126I	0
b = -1.258840 + 0.005810I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.20016 - 1.57518I		
a = -1.81945 - 0.48506I	-10.50220 - 3.38126I	0
b = -1.258840 - 0.005810I		
u = 0.377212		
a = -0.878279	0.673150	14.9230
b = 0.221691		
u = -0.253035 + 0.177235I		
a = 2.70886 + 1.05385I	-1.86269 + 7.84926I	0.62349 - 4.16114I
b = 1.139750 - 0.573699I		
u = -0.253035 - 0.177235I		
a = 2.70886 - 1.05385I	-1.86269 - 7.84926I	0.62349 + 4.16114I
b = 1.139750 + 0.573699I		
u = 0.03949 + 1.70848I		
a = 1.64394 + 0.12321I	-12.24090 - 0.50529I	0
b = 1.60468 - 0.02089I		
u = 0.03949 - 1.70848I		
a = 1.64394 - 0.12321I	-12.24090 + 0.50529I	0
b = 1.60468 + 0.02089I		
u = -1.51199 + 0.87275I		
a = 0.624904 - 0.563500I	-3.11785 - 7.52482I	0
b = 1.359320 + 0.228726I		
u = -1.51199 - 0.87275I		
a = 0.624904 + 0.563500I	-3.11785 + 7.52482I	0
b = 1.359320 - 0.228726I		
u = 0.189603 + 0.163078I		
a = 4.45429 + 2.45755I	-4.72032 + 4.23068I	5.16490 - 8.44942I
b = 0.939537 - 0.404470I		
u = 0.189603 - 0.163078I		
a = 4.45429 - 2.45755I	-4.72032 - 4.23068I	5.16490 + 8.44942I
b = 0.939537 + 0.404470I		
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Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.029495 + 0.220286I		
a = 2.62996 - 1.57110I	0.69632 - 5.10005I	4.21908 + 8.93882I
b = 1.051930 + 0.602659I		
u = -0.029495 - 0.220286I		
a = 2.62996 + 1.57110I	0.69632 + 5.10005I	4.21908 - 8.93882I
b = 1.051930 - 0.602659I		
u = 0.14707 + 1.79220I		
a = -0.0047642 + 0.0811756I	-9.51126 - 3.39870I	0
b = -0.384296 - 1.119010I		
u = 0.14707 - 1.79220I		
a = -0.0047642 - 0.0811756I	-9.51126 + 3.39870I	0
b = -0.384296 + 1.119010I		
u = 0.69156 + 1.72392I		
a = -0.740498 + 0.170634I	-4.48507 + 0.34747I	0
b = -0.655492 + 0.152399I		
u = 0.69156 - 1.72392I		
a = -0.740498 - 0.170634I	-4.48507 - 0.34747I	0
b = -0.655492 - 0.152399I		
u = 0.11604 + 1.94557I		
a = -0.0250709 - 0.0332917I	-7.96763 + 8.70759I	0
b = -0.08603 - 1.42479I		
u = 0.11604 - 1.94557I		
a = -0.0250709 + 0.0332917I	-7.96763 - 8.70759I	0
b = -0.08603 + 1.42479I		
u = -0.61083 + 1.86793I		
a = -1.026190 + 0.617276I	-12.39080 - 3.74278I	0
b = -1.38484 - 0.79367I		
u = -0.61083 - 1.86793I		
a = -1.026190 - 0.617276I	-12.39080 + 3.74278I	0
b = -1.38484 + 0.79367I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.20977 + 1.96700I		
a = -0.0368901 - 0.0037967I	-4.04829 - 2.21767I	0
b = -0.33302 + 1.46253I		
u = -0.20977 - 1.96700I		
a = -0.0368901 + 0.0037967I	-4.04829 + 2.21767I	0
b = -0.33302 - 1.46253I		
u = 0.40823 + 1.96292I		
a = -1.43456 - 0.22542I	-5.28293 - 1.49985I	0
b = -1.213000 - 0.036513I		
u = 0.40823 - 1.96292I		
a = -1.43456 + 0.22542I	-5.28293 + 1.49985I	0
b = -1.213000 + 0.036513I		
u = 0.32373 + 2.02205I		
a = 1.154040 + 0.330512I	-13.92610 - 1.38296I	0
b = 1.70054 - 0.47367I		
u = 0.32373 - 2.02205I		
a = 1.154040 - 0.330512I	-13.92610 + 1.38296I	0
b = 1.70054 + 0.47367I		
u = -0.39994 + 2.02628I		
a = 1.205390 - 0.344773I	-10.89730 - 3.88708I	0
b = 1.54531 + 0.35640I		
u = -0.39994 - 2.02628I		
a = 1.205390 + 0.344773I	-10.89730 + 3.88708I	0
b = 1.54531 - 0.35640I		
u = 0.56302 + 2.00209I		
a = -1.076820 - 0.499150I	-7.94229 + 9.99315I	0
b = -1.48301 + 0.72273I		
u = 0.56302 - 2.00209I		
a = -1.076820 + 0.499150I	-7.94229 - 9.99315I	0
b = -1.48301 - 0.72273I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.49267 + 2.02523I		
a = -1.155480 + 0.473455I	-12.4141 - 15.9549I	0
b = -1.47378 - 0.66173I		
u = -0.49267 - 2.02523I		
a = -1.155480 - 0.473455I	-12.4141 + 15.9549I	0
b = -1.47378 + 0.66173I		
u = 0.40983 + 2.17347I		
a = 1.190030 + 0.336694I	-15.3485 + 8.5623I	0
b = 1.46125 - 0.40417I		
u = 0.40983 - 2.17347I		
a = 1.190030 - 0.336694I	-15.3485 - 8.5623I	0
b = 1.46125 + 0.40417I		
u = 2.16701 + 0.96801I		
a = -1.000200 - 0.188283I	-4.90781 - 0.48946I	0
b = -1.089120 - 0.158880I		
u = 2.16701 - 0.96801I		
a = -1.000200 + 0.188283I	-4.90781 + 0.48946I	0
b = -1.089120 + 0.158880I		

$$II. \\ I_2^u = \langle -5.16 \times 10^{14} u^{22} + 4.97 \times 10^{15} u^{21} + \dots + 6.70 \times 10^{15} b - 5.25 \times 10^{15}, \ -1.04 \times 10^{16} u^{22} + 4.71 \times 10^{16} u^{21} + \dots + 6.70 \times 10^{15} a + 1.87 \times 10^{16}, \ u^{23} - 4u^{22} + \dots - 2u - 1 \rangle$$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} 1.55903u^{22} - 7.02888u^{21} + \dots - 5.76187u - 2.78926 \\ 0.0770910u^{22} - 0.741730u^{21} + \dots - 1.07988u + 0.784576 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.725934u^{22} + 3.34952u^{21} + \dots + 2.91597u + 1.97536 \\ 0.407470u^{22} - 2.13118u^{21} + \dots - 0.418965u - 1.02729 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1.52368u^{22} - 6.77624u^{21} + \dots + 4.93605u - 1.18246 \\ -0.844098u^{22} + 3.83422u^{21} + \dots + 0.596351u + 1.60466 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.879843u^{22} - 3.70740u^{21} + \dots - 4.17906u - 0.259328 \\ -0.535247u^{22} + 2.53641u^{21} + \dots + 0.253205u + 1.11116 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.705943u^{22} + 3.10076u^{21} + \dots + 2.66264u + 1.39386 \\ 0.311346u^{22} - 1.61437u^{21} + \dots - 0.101348u - 0.858489 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.765842u^{22} - 4.10351u^{21} + \dots - 3.05258u + 0.346479 \\ -0.913552u^{22} + 4.44614u^{21} + \dots + 1.46542u + 1.24958 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1.60544u^{22} - 6.83027u^{21} + \dots + 0.708634u - 4.90601 \\ 1.09999u^{22} - 5.16613u^{21} + \dots - 2.06690u - 0.748018 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.705943u^{22} + 3.10076u^{21} + \dots + 2.66264u + 1.39386 \\ 0.0199903u^{22} - 0.248765u^{21} + \dots + 2.66264u + 1.39386 \\ 0.0199903u^{22} - 0.248765u^{21} + \dots + 4.68199u + 3.57384 \\ -1.14248u^{22} + 6.28715u^{21} + \dots + 4.68199u + 3.57384 \\ -1.14248u^{22} + 5.28279u^{21} + \dots + 1.81382u + 1.01860 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes $=\frac{1767765260313609}{836994682049036}u^{22}-\frac{6469406606920041}{836994682049036}u^{21}+\cdots-\frac{4410901774827063}{836994682049036}u-\frac{238227547710287}{836994682049036}u^{22}$ (iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 13u^{22} + \dots + 579u - 101$
c_2	$u^{23} + 5u^{22} + \dots + 5u + 1$
c_3	$u^{23} - 4u^{22} + \dots - 2u - 1$
c_4	$u^{23} + 4u^{22} + \dots - 2u - 1$
<i>C</i> 5	$u^{23} - 5u^{22} + \dots + 5u - 1$
c_6	$u^{23} - u^{22} + \dots - 4u - 1$
c_7	$u^{23} + 7u^{22} + \dots + 24u + 4$
c_8	$u^{23} + u^{22} + \dots - 4u - 1$
c_9	$u^{23} + 13u^{21} + \dots - 4u + 1$
c_{10}	$u^{23} - 7u^{22} + \dots + 24u - 4$
c_{11}	$u^{23} - 4u^{22} + \dots - 2u + 1$
c_{12}	$u^{23} + 18u^{22} + \dots - 7u^2 + 1$
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(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} - 21y^{22} + \dots + 137079y - 10201$
c_2, c_5	$y^{23} - 11y^{22} + \dots + 11y - 1$
c_3	$y^{23} + 4y^{22} + \dots + 6y - 1$
c_4, c_{11}	$y^{23} - 12y^{22} + \dots + 50y^2 - 1$
<i>c</i> ₆	$y^{23} - 7y^{22} + \dots - 24y - 1$
c_7, c_{10}	$y^{23} + 15y^{22} + \dots + 64y - 16$
c_8	$y^{23} + 19y^{22} + \dots + 12y - 1$
<i>c</i> ₉	$y^{23} + 26y^{22} + \dots + 6y - 1$
c_{12}	$y^{23} - 166y^{22} + \dots + 14y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.874412 + 0.450439I		
a = 0.49727 - 1.62551I	3.24769 - 4.37033I	10.0565 + 11.1753I
b = 0.197520 + 1.146350I		
u = -0.874412 - 0.450439I		 -
a = 0.49727 + 1.62551I	3.24769 + 4.37033I	10.0565 - 11.1753I
b = 0.197520 - 1.146350I		
u = 0.862202 + 0.466629I		
a = -0.52611 - 1.42655I	3.08238 + 2.29231I	4.36467 + 2.48869I
b = -0.627257 + 1.173710I		
u = 0.862202 - 0.466629I		
a = -0.52611 + 1.42655I	3.08238 - 2.29231I	4.36467 - 2.48869I
b = -0.627257 - 1.173710I		
u = 0.822480 + 0.358939I		
a = -0.155185 - 0.371353I	-0.90973 + 8.53479I	6.72404 - 8.38769I
b = -1.155090 + 0.468700I		
u = 0.822480 - 0.358939I		
a = -0.155185 + 0.371353I	-0.90973 - 8.53479I	6.72404 + 8.38769I
b = -1.155090 - 0.468700I		
u = -0.701487 + 0.462033I		
a = -2.44701 - 1.11361I	1.56421 - 5.38320I	0.163108 - 0.319571I
b = -0.597104 + 0.199459I		
u = -0.701487 - 0.462033I		
a = -2.44701 + 1.11361I	1.56421 + 5.38320I	0.163108 + 0.319571I
b = -0.597104 - 0.199459I		
u = -0.712928 + 0.435312I		
a = -0.037762 - 0.296324I	0.98056 + 4.23184I	7.06871 - 1.26450I
b = -1.144960 + 0.669161I		
u = -0.712928 - 0.435312I		
a = -0.037762 + 0.296324I	0.98056 - 4.23184I	7.06871 + 1.26450I
b = -1.144960 - 0.669161I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.082357 + 1.273310I		
a = 0.430315 + 0.330387I	-7.43499 - 4.07830I	5.09056 + 7.35806I
b = -0.557351 - 0.433936I		
u = 0.082357 - 1.273310I		
a = 0.430315 - 0.330387I	-7.43499 + 4.07830I	5.09056 - 7.35806I
b = -0.557351 + 0.433936I		
u = 0.720759		
a = -3.39122	5.56542	-2.19910
b = -0.506052		
u = 0.318509 + 0.449463I		
a = 0.079165 + 0.812558I	-1.161340 - 0.595654I	5.98634 - 2.67183I
b = 1.116300 + 0.343936I		
u = 0.318509 - 0.449463I		
a = 0.079165 - 0.812558I	-1.161340 + 0.595654I	5.98634 + 2.67183I
b = 1.116300 - 0.343936I		
u = -0.04437 + 1.45182I		
a = 0.353212 + 0.027944I	-1.99194 + 0.94590I	10.18917 - 0.41452I
b = 0.218100 + 0.647175I		
u = -0.04437 - 1.45182I		
a = 0.353212 - 0.027944I	-1.99194 - 0.94590I	10.18917 + 0.41452I
b = 0.218100 - 0.647175I		
u = -0.294434 + 0.243731I		
a = 0.66187 - 2.79243I	-4.73096 + 3.15634I	4.23220 - 3.16834I
b = 1.019620 - 0.151411I		
u = -0.294434 - 0.243731I		
a = 0.66187 + 2.79243I	-4.73096 - 3.15634I	4.23220 + 3.16834I
b = 1.019620 + 0.151411I		
u = -0.10789 + 1.73390I		
a = -1.56075 + 0.22687I	-12.08590 + 1.15226I	3.47782 - 6.88892I
b = -1.62758 - 0.14949I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.10789 - 1.73390I		
a = -1.56075 - 0.22687I	-12.08590 - 1.15226I	3.47782 + 6.88892I
b = -1.62758 + 0.14949I		
u = 2.28960 + 1.71638I		
a = 0.900594 - 0.162427I	-4.72684 + 0.26589I	0
b = 0.910824 - 0.123102I		
u = 2.28960 - 1.71638I		
a = 0.900594 + 0.162427I	-4.72684 - 0.26589I	0
b = 0.910824 + 0.123102I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{23} - 13u^{22} + \dots + 579u - 101)(u^{66} - 4u^{65} + \dots + 251u + 131) $
c_2	$(u^{23} + 5u^{22} + \dots + 5u + 1)(u^{66} + 2u^{65} + \dots - 21u + 1)$
<i>c</i> 3	$(u^{23} - 4u^{22} + \dots - 2u - 1)(u^{66} - 3u^{65} + \dots + 1022u - 2621)$
C ₄	$(u^{23} + 4u^{22} + \dots - 2u - 1)(u^{66} + 5u^{65} + \dots - 402u - 171)$
<i>C</i> ₅	$(u^{23} - 5u^{22} + \dots + 5u - 1)(u^{66} + 2u^{65} + \dots - 21u + 1)$
<i>C</i> ₆	$(u^{23} - u^{22} + \dots - 4u - 1)(u^{66} - 2u^{65} + \dots - 40871u - 2788)$
C ₇	$(u^{23} + 7u^{22} + \dots + 24u + 4)(u^{66} + 6u^{65} + \dots + 224u + 16)$
<i>C</i> ₈	$(u^{23} + u^{22} + \dots - 4u - 1)(u^{66} + 47u^{64} + \dots + 18353u - 20690)$
<i>C</i> 9	$(u^{23} + 13u^{21} + \dots - 4u + 1)$ $\cdot (u^{66} - u^{65} + \dots + 28988118u - 18025751)$
c_{10}	$(u^{23} - 7u^{22} + \dots + 24u - 4)(u^{66} + 6u^{65} + \dots + 224u + 16)$
c_{11}	$(u^{23} - 4u^{22} + \dots - 2u + 1)(u^{66} + 5u^{65} + \dots - 402u - 171)$
c_{12}	$(u^{23} + 18u^{22} + \dots - 7u^2 + 1)$ $\cdot (u^{66} - 3u^{65} + \dots + 418122130u - 132292613)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{23} - 21y^{22} + \dots + 137079y - 10201)$ $\cdot (y^{66} - 94y^{65} + \dots - 1810017y + 17161)$
c_2,c_5	$(y^{23} - 11y^{22} + \dots + 11y - 1)(y^{66} - 48y^{65} + \dots - 193y + 1)$
<i>c</i> ₃	$(y^{23} + 4y^{22} + \dots + 6y - 1)$ $\cdot (y^{66} + 83y^{65} + \dots + 198203936y + 6869641)$
c_4, c_{11}	$(y^{23} - 12y^{22} + \dots + 50y^2 - 1)(y^{66} - 29y^{65} + \dots - 842526y + 29241)$
<i>C</i> ₆	$(y^{23} - 7y^{22} + \dots - 24y - 1)$ $\cdot (y^{66} + 20y^{65} + \dots - 290997577y + 7772944)$
c_7, c_{10}	$(y^{23} + 15y^{22} + \dots + 64y - 16)(y^{66} + 46y^{65} + \dots + 58848y^2 + 256)$
C ₈	$(y^{23} + 19y^{22} + \dots + 12y - 1)$ $\cdot (y^{66} + 94y^{65} + \dots - 15224156589y + 428076100)$
<i>c</i> ₉	$(y^{23} + 26y^{22} + \dots + 6y - 1)$ $\cdot (y^{66} + 69y^{65} + \dots + 2987872480868112y + 324927699114001)$
c_{12}	$(y^{23} - 166y^{22} + \dots + 14y - 1)$ $\cdot (y^{66} + 89y^{65} + \dots + 205846697467622796y + 17501335454367769)$