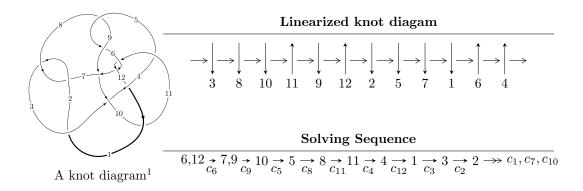
$12a_{0755} (K12a_{0755})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 6.46942 \times 10^{1040} u^{179} - 2.62189 \times 10^{1042} u^{178} + \dots + 1.27215 \times 10^{1044} b - 1.16593 \times 10^{1046}, \\ &- 8.30947 \times 10^{1047} u^{179} - 2.59048 \times 10^{1047} u^{178} + \dots + 1.29887 \times 10^{1047} a + 1.26957 \times 10^{1051}, \\ &u^{180} + u^{179} + \dots - 758 u - 1021 \rangle \\ I_2^u &= \langle -1.16181 \times 10^{28} u^{44} + 9.07809 \times 10^{27} u^{43} + \dots + 1.13258 \times 10^{27} b + 2.27919 \times 10^{28}, \\ &- 1.18648 \times 10^{36} u^{44} + 7.69318 \times 10^{35} u^{43} + \dots + 1.37485 \times 10^{34} a + 1.64948 \times 10^{36}, \\ &u^{45} - 11 u^{43} + \dots + 2 u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 225 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.
$$I_1^u = \langle 6.47 \times 10^{1040} u^{179} - 2.62 \times 10^{1042} u^{178} + \dots + 1.27 \times 10^{1044} b - 1.17 \times 10^{1046}, -8.31 \times 10^{1047} u^{179} - 2.59 \times 10^{1047} u^{178} + \dots + 1.30 \times 10^{1047} a + 1.27 \times 10^{1051}, \ u^{180} + u^{179} + \dots - 758u - 1021 \rangle$$

(i) Arc colorings

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

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

$$a_{7} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 6.39748u^{179} + 1.99441u^{178} + \dots + 6979.93u - 9774.44 \\ -0.000508542u^{179} + 0.0206099u^{178} + \dots - 28.9465u + 91.6505 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 3.46652u^{179} + 1.06821u^{178} + \dots + 3814.58u - 5370.56 \\ 1.36513u^{179} + 0.454516u^{178} + \dots + 1443.96u - 1955.21 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 3.79544u^{179} + 1.22942u^{178} + \dots + 4136.52u - 5632.08 \\ -0.148231u^{179} - 0.0220783u^{178} + \dots - 66.4305u + 202.432 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 4.21091u^{179} + 1.19632u^{178} + \dots + 4437.64u - 6570.69 \\ 0.00432269u^{179} + 0.135364u^{178} + \dots + 176.418u + 164.437 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 2.11858u^{179} + 0.671018u^{178} + \dots + 2262.14u - 3140.98 \\ 1.52863u^{179} + 0.536325u^{178} + \dots + 1807.95u - 2288.67 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -1.56079u^{179} - 0.442388u^{178} + \dots - 1483.13u + 2315.85 \\ -0.300723u^{179} - 0.129530u^{178} + \dots - 383.029u + 399.106 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -1.24373u^{179} - 0.490347u^{178} + \dots - 1742.93u + 1977.89 \\ -0.991737u^{179} - 0.256247u^{178} + \dots - 952.526u + 1555.45 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 3.27816u^{179} + 1.13776u^{178} + \dots + 3613.16u - 4770.78 \\ -0.535606u^{179} - 0.257279u^{178} + \dots - 689.852u + 718.550 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.659722u^{179} 0.371440u^{178} + \cdots 607.760u + 665.189$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{180} + 71u^{179} + \dots + 772300u + 22801$
c_2, c_7	$u^{180} + u^{179} + \dots - 180u - 151$
<i>c</i> ₃	$u^{180} + 2u^{179} + \dots - 45u + 1$
c_4	$u^{180} - u^{179} + \dots + 565923008u - 391286809$
c_5, c_8	$u^{180} + 2u^{179} + \dots + 731401u + 82807$
c_6,c_{11}	$u^{180} + u^{179} + \dots - 758u - 1021$
<i>c</i> ₉	$u^{180} - 5u^{179} + \dots - 3167561u - 887597$
c_{10}	$u^{180} - 14u^{179} + \dots - 360019u + 18833$
c_{12}	$u^{180} + 12u^{179} + \dots + 305u + 25$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{180} + 69y^{179} + \dots + 393405409088y + 519885601$
c_2, c_7	$y^{180} - 71y^{179} + \dots - 772300y + 22801$
<i>C</i> ₃	$y^{180} + 26y^{179} + \dots - 13y + 1$
c_4	$y^{180} - 17y^{179} + \dots - 768200127417898812y + 153105366897402481$
c_5, c_8	$y^{180} - 90y^{179} + \dots - 186489273469y + 6856999249$
c_6, c_{11}	$y^{180} - 95y^{179} + \dots - 38394446y + 1042441$
<i>c</i> ₉	$y^{180} + y^{179} + \dots - 19198314861057y + 787828434409$
c_{10}	$y^{180} + 30y^{179} + \dots + 35805184153y + 354681889$
c_{12}	$y^{180} + 156y^{178} + \dots + 35575y + 625$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.544652 + 0.856933I		
a = 0.353098 - 0.630739I	-2.18832 - 2.35646I	0
b = -0.888060 + 0.565610I		
u = -0.544652 - 0.856933I		
a = 0.353098 + 0.630739I	-2.18832 + 2.35646I	0
b = -0.888060 - 0.565610I		
u = 0.858660 + 0.560485I		
a = -1.10265 - 1.16702I	3.46099 + 1.89790I	0
b = -0.617562 + 0.739902I		
u = 0.858660 - 0.560485I		
a = -1.10265 + 1.16702I	3.46099 - 1.89790I	0
b = -0.617562 - 0.739902I		
u = -0.967490 + 0.365847I		
a = 1.08622 - 1.56153I	4.66054 - 3.17592I	0
b = -0.37943 + 1.43434I		
u = -0.967490 - 0.365847I		
a = 1.08622 + 1.56153I	4.66054 + 3.17592I	0
b = -0.37943 - 1.43434I		
u = -0.861598 + 0.417149I		
a = -0.05218 - 2.15259I	-1.54454 - 4.15543I	0
b = 0.934370 + 0.489622I		
u = -0.861598 - 0.417149I		
a = -0.05218 + 2.15259I	-1.54454 + 4.15543I	0
b = 0.934370 - 0.489622I		
u = -0.962447 + 0.416308I		
a = 0.77363 + 1.75507I	-5.53707 - 2.51693I	0
b = -1.200450 - 0.612984I		
u = -0.962447 - 0.416308I		
a = 0.77363 - 1.75507I	-5.53707 + 2.51693I	0
b = -1.200450 + 0.612984I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.999288 + 0.319199I		
a = 0.818191 - 0.163003I	3.08831 + 3.86688I	0
b = -0.744256 + 0.815866I		
u = -0.999288 - 0.319199I		
a = 0.818191 + 0.163003I	3.08831 - 3.86688I	0
b = -0.744256 - 0.815866I		
u = -0.771002 + 0.546425I		
a = 0.47917 + 1.62861I	-4.16813 + 4.93589I	0
b = -1.335510 - 0.253643I		
u = -0.771002 - 0.546425I		
a = 0.47917 - 1.62861I	-4.16813 - 4.93589I	0
b = -1.335510 + 0.253643I		
u = 1.046460 + 0.253603I		
a = 0.57796 + 1.64382I	4.34051 + 4.64779I	0
b = -0.63788 - 1.32819I		
u = 1.046460 - 0.253603I		
a = 0.57796 - 1.64382I	4.34051 - 4.64779I	0
b = -0.63788 + 1.32819I		
u = -1.026850 + 0.327802I		
a = -0.61461 - 2.39323I	-0.65133 - 4.75263I	0
b = 1.131340 + 0.426064I		
u = -1.026850 - 0.327802I		
a = -0.61461 + 2.39323I	-0.65133 + 4.75263I	0
b = 1.131340 - 0.426064I		
u = -0.399718 + 1.008750I		
a = -0.436601 - 0.225868I	-2.21102 + 1.15028I	0
b = -0.960412 + 0.350083I		
u = -0.399718 - 1.008750I		
a = -0.436601 + 0.225868I	-2.21102 - 1.15028I	0
b = -0.960412 - 0.350083I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
4.71254 - 1.28878I	0
4.71254 + 1.28878I	0
-4.15704 - 8.98961I	0
-4.15704 + 8.98961I	0
-2.49064 - 1.62266I	0
-2.49064 + 1.62266I	0
3.72825 + 1.22255I	0
3.72825 - 1.22255I	0
-1.82917 + 0.21089I	0
-1.82917 - 0.21089I	0
	4.71254 - 1.28878I $4.71254 + 1.28878I$ $-4.15704 - 8.98961I$ $-4.15704 + 8.98961I$ $-2.49064 - 1.62266I$ $-2.49064 + 1.62266I$ $3.72825 + 1.22255I$ $3.72825 - 1.22255I$ $-1.82917 + 0.21089I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.833701 + 0.323163I		
a = 0.115274 - 0.219384I	-1.61760 + 4.01420I	0
b = -1.46859 - 0.07425I		
u = 0.833701 - 0.323163I		
a = 0.115274 + 0.219384I	-1.61760 - 4.01420I	0
b = -1.46859 + 0.07425I		
u = 0.134108 + 0.883852I		
a = 0.164549 - 0.118172I	-1.93976 + 7.29622I	0
b = 1.165680 - 0.403607I		
u = 0.134108 - 0.883852I		
a = 0.164549 + 0.118172I	-1.93976 - 7.29622I	0
b = 1.165680 + 0.403607I		
u = -0.954125 + 0.564822I		
a = 0.94446 - 1.44653I	3.39181 - 7.30281I	0
b = 0.769698 + 0.802098I		
u = -0.954125 - 0.564822I		
a = 0.94446 + 1.44653I	3.39181 + 7.30281I	0
b = 0.769698 - 0.802098I		
u = 0.818772 + 0.749291I		
a = -0.326308 - 0.060149I	-2.81671 + 3.20015I	0
b = 1.181920 + 0.251409I		
u = 0.818772 - 0.749291I		
a = -0.326308 + 0.060149I	-2.81671 - 3.20015I	0
b = 1.181920 - 0.251409I		
u = 0.816264 + 0.754277I		
a = -0.10381 - 1.79852I	-2.01951 + 7.53940I	0
b = -0.897029 + 0.748328I		
u = 0.816264 - 0.754277I		
a = -0.10381 + 1.79852I	-2.01951 - 7.53940I	0
b = -0.897029 - 0.748328I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.896847 + 0.662839I		
a = 0.08115 - 1.84945I	-1.18795 - 3.20557I	0
b = 0.759907 + 0.677854I		
u = -0.896847 - 0.662839I		
a = 0.08115 + 1.84945I	-1.18795 + 3.20557I	0
b = 0.759907 - 0.677854I		
u = -0.950258 + 0.590530I		
a = 0.21391 - 1.39805I	0.87027 - 4.86559I	0
b = 0.616278 - 0.028724I		
u = -0.950258 - 0.590530I		
a = 0.21391 + 1.39805I	0.87027 + 4.86559I	0
b = 0.616278 + 0.028724I		
u = 1.073410 + 0.330573I		
a = 0.88043 - 2.36486I	-1.87778 + 9.84922I	0
b = -1.211100 + 0.381137I		
u = 1.073410 - 0.330573I		
a = 0.88043 + 2.36486I	-1.87778 - 9.84922I	0
b = -1.211100 - 0.381137I		
u = 0.799901 + 0.349974I		
a = -0.63357 + 2.05521I	-1.66606 - 0.94848I	0
b = 1.032160 - 0.358952I		
u = 0.799901 - 0.349974I		
a = -0.63357 - 2.05521I	-1.66606 + 0.94848I	0
b = 1.032160 + 0.358952I		
u = -0.871293 + 0.026419I		
a = 0.38721 - 2.30721I	2.41709 - 4.96606I	0
b = 1.007110 + 0.564764I		
u = -0.871293 - 0.026419I		
a = 0.38721 + 2.30721I	2.41709 + 4.96606I	0
b = 1.007110 - 0.564764I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.866358 + 0.051079I		
a = -0.44172 + 1.85510I	2.58754 + 0.87376I	0
b = -1.062440 - 0.517302I		
u = 0.866358 - 0.051079I		
a = -0.44172 - 1.85510I	2.58754 - 0.87376I	0
b = -1.062440 + 0.517302I		
u = -0.817214 + 0.235498I		
a = 0.84699 - 1.81913I	3.88389 + 0.48967I	0
b = -0.126436 + 1.407170I		
u = -0.817214 - 0.235498I		
a = 0.84699 + 1.81913I	3.88389 - 0.48967I	0
b = -0.126436 - 1.407170I		
u = 0.452247 + 0.717887I		
a = -0.56557 - 1.55660I	-3.64638 + 2.31168I	0
b = -1.029210 + 0.547501I		
u = 0.452247 - 0.717887I		
a = -0.56557 + 1.55660I	-3.64638 - 2.31168I	0
b = -1.029210 - 0.547501I		
u = 0.837829 + 0.023977I		
a = -0.33714 + 1.98624I	3.04547 - 3.16514I	0
b = 0.004273 - 1.379410I		
u = 0.837829 - 0.023977I		
a = -0.33714 - 1.98624I	3.04547 + 3.16514I	0
b = 0.004273 + 1.379410I		
u = -1.149680 + 0.182280I		
a = -0.38001 + 1.36524I	6.63013 + 0.67239I	0
b = 0.518344 - 1.114800I		
u = -1.149680 - 0.182280I		
a = -0.38001 - 1.36524I	6.63013 - 0.67239I	0
b = 0.518344 + 1.114800I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.085510 + 0.436676I		
a = 0.74637 - 1.77078I	-5.28456 + 3.73767I	0
b = -1.084240 + 0.185420I		
u = 1.085510 - 0.436676I		
a = 0.74637 + 1.77078I	-5.28456 - 3.73767I	0
b = -1.084240 - 0.185420I		
u = 1.161710 + 0.140485I		
a = -1.031520 + 0.868086I	3.78976 - 0.23686I	0
b = 0.541593 - 0.640642I		
u = 1.161710 - 0.140485I		
a = -1.031520 - 0.868086I	3.78976 + 0.23686I	0
b = 0.541593 + 0.640642I		
u = 1.060510 + 0.504574I		
a = -0.04254 - 1.42720I	-1.08030 + 6.00401I	0
b = -1.39658 + 0.48115I		
u = 1.060510 - 0.504574I		
a = -0.04254 + 1.42720I	-1.08030 - 6.00401I	0
b = -1.39658 - 0.48115I		
u = 1.138050 + 0.293481I		
a = -1.01517 - 1.59294I	3.75272 + 3.81024I	0
b = -1.002130 + 0.289534I		
u = 1.138050 - 0.293481I		
a = -1.01517 + 1.59294I	3.75272 - 3.81024I	0
b = -1.002130 - 0.289534I		
u = 0.364225 + 0.738569I		
a = 0.162662 + 0.332479I	-0.98972 - 5.96088I	0
b = 1.278100 + 0.526116I		
u = 0.364225 - 0.738569I		
a = 0.162662 - 0.332479I	-0.98972 + 5.96088I	0
b = 1.278100 - 0.526116I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.065475 + 0.809888I		
a = -0.976716 + 0.453899I	2.17617 + 3.58604I	0
b = -0.278519 - 0.709195I		
u = -0.065475 - 0.809888I		
a = -0.976716 - 0.453899I	2.17617 - 3.58604I	0
b = -0.278519 + 0.709195I		
u = 0.150530 + 0.793266I		
a = 1.056400 + 0.708005I	0.72737 - 9.16943I	0
b = 0.176530 - 0.865905I		
u = 0.150530 - 0.793266I		
a = 1.056400 - 0.708005I	0.72737 + 9.16943I	0
b = 0.176530 + 0.865905I		
u = 0.520582 + 0.609539I		
a = 0.104515 + 1.156690I	-2.75317 - 1.62014I	0
b = 1.289700 + 0.149462I		
u = 0.520582 - 0.609539I		
a = 0.104515 - 1.156690I	-2.75317 + 1.62014I	0
b = 1.289700 - 0.149462I		
u = 0.331232 + 1.159550I		
a = -0.224162 + 0.183102I	-0.28241 - 8.29945I	0
b = -1.126710 - 0.527863I		
u = 0.331232 - 1.159550I		
a = -0.224162 - 0.183102I	-0.28241 + 8.29945I	0
b = -1.126710 + 0.527863I		
u = -1.120790 + 0.459988I		
a = 0.117282 - 0.686946I	-1.138300 - 0.793069I	0
b = -0.509589 + 0.541882I		
u = -1.120790 - 0.459988I		
a = 0.117282 + 0.686946I	-1.138300 + 0.793069I	0
b = -0.509589 - 0.541882I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.324228 + 0.711456I		
a = -0.347251 + 0.170590I	-0.323740 + 1.330340I	0
b = -1.123800 + 0.568451I		
u = -0.324228 - 0.711456I		
a = -0.347251 - 0.170590I	-0.323740 - 1.330340I	0
b = -1.123800 - 0.568451I		
u = -0.294571 + 1.183130I		
a = 0.139200 + 0.241626I	-2.2759 + 14.3484I	0
b = 1.197000 - 0.555546I		
u = -0.294571 - 1.183130I		
a = 0.139200 - 0.241626I	-2.2759 - 14.3484I	0
b = 1.197000 + 0.555546I		
u = 1.140550 + 0.433144I		
a = 0.226578 + 1.274700I	-0.74537 + 6.46765I	0
b = -0.102636 - 1.152640I		
u = 1.140550 - 0.433144I		
a = 0.226578 - 1.274700I	-0.74537 - 6.46765I	0
b = -0.102636 + 1.152640I		
u = -0.147509 + 0.756671I		_
a = 0.164754 - 0.749718I	-1.55919 + 1.87982I	0
b = -0.196299 + 0.593717I		
u = -0.147509 - 0.756671I	1 55010 1 050001	
a = 0.164754 + 0.749718I	-1.55919 - 1.87982I	0
b = -0.196299 - 0.593717I		
u = -1.192050 + 0.308145I	9 K9991 0 10000 F	
a = 0.80750 - 1.88074I	3.52201 - 9.19808I	0
b = 0.977319 + 0.384239I		
u = -1.192050 - 0.308145I	9 K0001 + 0 10000 F	
a = 0.80750 + 1.88074I	3.52201 + 9.19808I	0
b = 0.977319 - 0.384239I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.108610 + 0.555508I		
a = -0.00822 - 1.82667I	1.21209 + 10.86510I	0
b = -1.39725 + 0.76974I		
u = 1.108610 - 0.555508I		
a = -0.00822 + 1.82667I	1.21209 - 10.86510I	0
b = -1.39725 - 0.76974I		
u = -1.113840 + 0.547780I		
a = 0.17282 - 1.84492I	1.96870 - 6.13886I	0
b = 1.28147 + 0.79434I		
u = -1.113840 - 0.547780I		
a = 0.17282 + 1.84492I	1.96870 + 6.13886I	0
b = 1.28147 - 0.79434I		
u = -0.049100 + 1.246410I		
a = 0.331163 - 0.515682I	-5.24445 - 4.67701I	0
b = 1.073800 + 0.288692I		
u = -0.049100 - 1.246410I		
a = 0.331163 + 0.515682I	-5.24445 + 4.67701I	0
b = 1.073800 - 0.288692I		
u = 1.218860 + 0.285883I		
a = -0.619445 - 0.951208I	2.80158 + 1.74662I	0
b = 0.351749 + 0.764126I		
u = 1.218860 - 0.285883I		
a = -0.619445 + 0.951208I	2.80158 - 1.74662I	0
b = 0.351749 - 0.764126I		
u = -0.713504 + 0.190350I		
a = -0.836589 + 0.243306I	-6.73735 - 0.46894I	0
b = 1.67967 - 0.27177I		
u = -0.713504 - 0.190350I		
a = -0.836589 - 0.243306I	-6.73735 + 0.46894I	0
b = 1.67967 + 0.27177I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.226170 + 0.361886I		
a = -0.579858 - 1.011020I	2.78506 + 1.79914I	0
b = 0.394373 + 0.753679I		
u = 1.226170 - 0.361886I		
a = -0.579858 + 1.011020I	2.78506 - 1.79914I	0
b = 0.394373 - 0.753679I		
u = -0.481697 + 1.199320I		
a = -0.366110 + 0.014670I	-0.167493 - 0.773187I	0
b = -1.019630 - 0.271133I		
u = -0.481697 - 1.199320I		
a = -0.366110 - 0.014670I	-0.167493 + 0.773187I	0
b = -1.019630 + 0.271133I		
u = -1.240270 + 0.375598I		
a = -0.590068 + 1.161510I	4.80435 + 5.10558I	0
b = -0.765191 - 0.506035I		
u = -1.240270 - 0.375598I		
a = -0.590068 - 1.161510I	4.80435 - 5.10558I	0
b = -0.765191 + 0.506035I		
u = 1.193550 + 0.521377I		
a = 0.636367 + 1.210830I	3.7852 + 14.0444I	0
b = -0.391801 - 1.229500I		
u = 1.193550 - 0.521377I		
a = 0.636367 - 1.210830I	3.7852 - 14.0444I	0
b = -0.391801 + 1.229500I		
u = 0.691655 + 0.065228I		
a = -0.60439 + 4.07516I	1.73389 - 1.99583I	0
b = 0.617085 - 0.113526I		
u = 0.691655 - 0.065228I		
a = -0.60439 - 4.07516I	1.73389 + 1.99583I	0
b = 0.617085 + 0.113526I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.209970 + 0.495005I		
a = -0.568489 + 1.091390I	5.52195 - 8.33556I	0
b = 0.380450 - 1.129140I		
u = -1.209970 - 0.495005I		
a = -0.568489 - 1.091390I	5.52195 + 8.33556I	0
b = 0.380450 + 1.129140I		
u = -1.227000 + 0.456014I		
a = 0.424924 - 1.227150I	1.68321 - 6.31198I	0
b = -0.301274 + 0.756898I		
u = -1.227000 - 0.456014I		
a = 0.424924 + 1.227150I	1.68321 + 6.31198I	0
b = -0.301274 - 0.756898I		
u = -0.386612 + 1.251190I		
a = 0.1371510 - 0.0303294I	-7.41357 + 5.62113I	0
b = 1.142440 - 0.340319I		
u = -0.386612 - 1.251190I		
a = 0.1371510 + 0.0303294I	-7.41357 - 5.62113I	0
b = 1.142440 + 0.340319I		
u = 1.052560 + 0.781226I		
a = -0.029628 - 0.774611I	0.85874 - 1.38845I	0
b = -0.785460 - 0.177089I		
u = 1.052560 - 0.781226I		
a = -0.029628 + 0.774611I	0.85874 + 1.38845I	0
b = -0.785460 + 0.177089I		
u = 1.248770 + 0.406970I		
a = 0.377785 + 1.220990I	6.11331 + 0.81908I	0
b = 0.864035 - 0.549920I		
u = 1.248770 - 0.406970I		
a = 0.377785 - 1.220990I	6.11331 - 0.81908I	0
b = 0.864035 + 0.549920I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.593551 + 0.329826I		
a = -0.781169 + 0.161969I	-2.01894 + 1.79194I	0
b = -1.304310 + 0.258713I		
u = -0.593551 - 0.329826I		
a = -0.781169 - 0.161969I	-2.01894 - 1.79194I	0
b = -1.304310 - 0.258713I		
u = -0.678260 + 0.011891I		
a = 0.13191 + 4.52530I	1.01871 + 7.54583I	0
b = -0.579418 - 0.051036I		
u = -0.678260 - 0.011891I		
a = 0.13191 - 4.52530I	1.01871 - 7.54583I	0
b = -0.579418 + 0.051036I		
u = -1.319270 + 0.121327I		
a = 1.079920 + 0.214959I	4.44448 - 4.59561I	0
b = -0.609189 - 0.261060I		
u = -1.319270 - 0.121327I		
a = 1.079920 - 0.214959I	4.44448 + 4.59561I	0
b = -0.609189 + 0.261060I		
u = -1.205100 + 0.562996I		
a = 0.21180 - 1.60483I	0.58513 - 6.86715I	0
b = 1.112730 + 0.591882I		
u = -1.205100 - 0.562996I		
a = 0.21180 + 1.60483I	0.58513 + 6.86715I	0
b = 1.112730 - 0.591882I		
u = -1.259890 + 0.471549I		
a = 0.38091 + 1.53121I	2.11340 - 12.00400I	0
b = -1.24033 - 0.78082I		
u = -1.259890 - 0.471549I		
a = 0.38091 - 1.53121I	2.11340 + 12.00400I	0
b = -1.24033 + 0.78082I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.304650 + 0.350565I		
a = -0.041436 + 0.500583I	5.07672 - 4.55802I	0
b = 0.183841 - 0.578143I		
u = -1.304650 - 0.350565I		
a = -0.041436 - 0.500583I	5.07672 + 4.55802I	0
b = 0.183841 + 0.578143I		
u = 1.273440 + 0.460633I		
a = -0.25966 + 1.39170I	4.38435 + 5.80308I	0
b = 1.188750 - 0.701756I		
u = 1.273440 - 0.460633I		
a = -0.25966 - 1.39170I	4.38435 - 5.80308I	0
b = 1.188750 + 0.701756I		
u = 0.592233 + 0.254799I		
a = 1.034420 + 0.286727I	-3.56673 - 7.09378I	0
b = 1.41788 + 0.26927I		
u = 0.592233 - 0.254799I		
a = 1.034420 - 0.286727I	-3.56673 + 7.09378I	0
b = 1.41788 - 0.26927I		
u = -0.438925 + 1.288340I		
a = 0.284951 - 0.377729I	-4.88202 - 4.59101I	0
b = 0.943116 + 0.037674I		
u = -0.438925 - 1.288340I		
a = 0.284951 + 0.377729I	-4.88202 + 4.59101I	0
b = 0.943116 - 0.037674I		
u = -1.253320 + 0.549442I		
a = 0.147960 + 0.877975I	-1.77375 - 1.69819I	0
b = -1.201430 - 0.393370I		
u = -1.253320 - 0.549442I		
a = 0.147960 - 0.877975I	-1.77375 + 1.69819I	0
b = -1.201430 + 0.393370I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.291275 + 0.529041I		
a = -0.663281 - 0.376901I	-0.074789 + 1.289980I	0
b = 0.020025 + 0.281797I		
u = 0.291275 - 0.529041I		
a = -0.663281 + 0.376901I	-0.074789 - 1.289980I	0
b = 0.020025 - 0.281797I		
u = -0.599334		
a = -0.221794	-1.29685	-7.06650
b = -0.605276		
u = -1.30699 + 0.56082I		
a = 0.06737 - 1.64485I	0.69822 - 6.82682I	0
b = 1.099850 + 0.576283I		
u = -1.30699 - 0.56082I		
a = 0.06737 + 1.64485I	0.69822 + 6.82682I	0
b = 1.099850 - 0.576283I		
u = -1.42814 + 0.17262I		
a = 1.253160 - 0.413525I	4.60901 - 1.47835I	0
b = -0.790425 + 0.228088I		
u = -1.42814 - 0.17262I		
a = 1.253160 + 0.413525I	4.60901 + 1.47835I	0
b = -0.790425 - 0.228088I		
u = 1.23812 + 0.74310I		
a = 0.236088 + 0.997160I	2.22072 + 8.84075I	0
b = 1.166740 - 0.483369I		
u = 1.23812 - 0.74310I		
a = 0.236088 - 0.997160I	2.22072 - 8.84075I	0
b = 1.166740 + 0.483369I		
u = 1.42727 + 0.21994I		
a = -1.167730 - 0.626648I	4.34258 + 5.84793I	0
b = 0.730489 + 0.407607I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.42727 - 0.21994I		
a = -1.167730 + 0.626648I	4.34258 - 5.84793I	0
b = 0.730489 - 0.407607I		
u = 1.27979 + 0.67248I		
a = 0.06824 + 1.53398I	2.7498 + 14.7886I	0
b = 1.24950 - 0.68575I		
u = 1.27979 - 0.67248I		
a = 0.06824 - 1.53398I	2.7498 - 14.7886I	0
b = 1.24950 + 0.68575I		
u = -1.27489 + 0.70424I		
a = 0.055529 + 1.291130I	-4.50565 - 12.42870I	0
b = -1.29854 - 0.57746I		
u = -1.27489 - 0.70424I		
a = 0.055529 - 1.291130I	-4.50565 + 12.42870I	0
b = -1.29854 + 0.57746I		
u = -1.29465 + 0.67213I		
a = 0.01201 + 1.60193I	0.8989 - 20.8866I	0
b = -1.28378 - 0.71719I		
u = -1.29465 - 0.67213I		
a = 0.01201 - 1.60193I	0.8989 + 20.8866I	0
b = -1.28378 + 0.71719I		
u = -1.47837 + 0.12702I		
a = -0.463923 + 0.628937I	6.61268 + 3.58152I	0
b = 0.695945 - 0.547155I		
u = -1.47837 - 0.12702I		
a = -0.463923 - 0.628937I	6.61268 - 3.58152I	0
b = 0.695945 + 0.547155I		
u = 1.26031 + 0.84624I		
a = -0.080182 - 1.182690I	-2.79158 + 4.88875I	0
b = -1.050960 + 0.478017I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.26031 - 0.84624I		
a = -0.080182 + 1.182690I	-2.79158 - 4.88875I	0
b = -1.050960 - 0.478017I		
u = 0.65018 + 1.37798I		
a = 0.295851 - 0.264637I	-5.00811 + 2.95519I	0
b = 0.927954 + 0.265417I		
u = 0.65018 - 1.37798I		
a = 0.295851 + 0.264637I	-5.00811 - 2.95519I	0
b = 0.927954 - 0.265417I		
u = 0.320300 + 0.335282I		
a = 0.952870 - 0.615613I	-7.45657 - 0.11347I	-15.8842 - 2.4193I
b = 1.373380 - 0.000146I		
u = 0.320300 - 0.335282I		
a = 0.952870 + 0.615613I	-7.45657 + 0.11347I	-15.8842 + 2.4193I
b = 1.373380 + 0.000146I		
u = 1.41200 + 0.64071I		
a = 0.14302 - 1.52460I	-0.75306 + 11.29840I	0
b = -1.136100 + 0.562878I		
u = 1.41200 - 0.64071I		
a = 0.14302 + 1.52460I	-0.75306 - 11.29840I	0
b = -1.136100 - 0.562878I		
u = -0.27855 + 1.56130I		
a = -0.270593 - 0.004899I	-0.175662 - 0.753623I	0
b = -0.989128 - 0.239832I		
u = -0.27855 - 1.56130I		
a = -0.270593 + 0.004899I	-0.175662 + 0.753623I	0
b = -0.989128 + 0.239832I		
u = 1.58657 + 0.17604I		
a = 0.619396 + 0.478820I	4.53410 - 9.04185I	0
b = -0.863712 - 0.452530I		
b = -0.863712 - 0.452530I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.58657 - 0.17604I		
a = 0.619396 - 0.478820I	4.53410 + 9.04185I	0
b = -0.863712 + 0.452530I		
u = -0.320510 + 0.222013I		
a = 0.81796 - 3.44204I	-3.52626 - 2.85244I	-11.74888 + 3.06766I
b = -0.561686 - 0.178337I		
u = -0.320510 - 0.222013I		
a = 0.81796 + 3.44204I	-3.52626 + 2.85244I	-11.74888 - 3.06766I
b = -0.561686 + 0.178337I		
u = 0.291806 + 0.203956I		
a = -0.74153 + 1.42412I	2.72864 + 1.35545I	0.64437 - 3.50808I
b = 0.118604 + 0.680726I		
u = 0.291806 - 0.203956I		
a = -0.74153 - 1.42412I	2.72864 - 1.35545I	0.64437 + 3.50808I
b = 0.118604 - 0.680726I		
u = -0.170166 + 0.276360I		
a = -0.79459 + 1.35427I	2.13193 + 3.74371I	-1.07054 - 3.84485I
b = -0.284913 + 0.796767I		
u = -0.170166 - 0.276360I		
a = -0.79459 - 1.35427I	2.13193 - 3.74371I	-1.07054 + 3.84485I
b = -0.284913 - 0.796767I		
u = 0.097325 + 0.295460I		
a = 3.93808 + 0.91084I	-3.56616 - 2.81979I	-10.23826 + 3.01852I
b = -0.488338 - 0.529244I		
u = 0.097325 - 0.295460I		
a = 3.93808 - 0.91084I	-3.56616 + 2.81979I	-10.23826 - 3.01852I
b = -0.488338 + 0.529244I		
u = 1.89457		
a = 0.279307	1.17186	0
b = -0.730326		

II.
$$I_2^u = \langle -1.16 \times 10^{28} u^{44} + 9.08 \times 10^{27} u^{43} + \dots + 1.13 \times 10^{27} b + 2.28 \times 10^{28}, \ -1.19 \times 10^{36} u^{44} + 7.69 \times 10^{35} u^{43} + \dots + 1.37 \times 10^{34} a + 1.65 \times 10^{36}, \ u^{45} - 11 u^{43} + \dots + 2u - 1 \rangle$$

(i) Arc colorings

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 86.2989u^{44} - 55.9564u^{43} + \dots + 358.488u - 119.975 \\ 10.2581u^{44} - 8.01540u^{43} + \dots + 57.0770u - 20.1238 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 34.5136u^{44} - 25.0482u^{43} + \dots + 103.200u - 43.8948 \\ 34.2768u^{44} - 19.5003u^{43} + \dots + 170.679u - 51.0320 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 133.366u^{44} - 90.7378u^{43} + \dots + 472.849u - 137.475 \\ 6.54547u^{44} - 1.27841u^{43} + \dots + 49.7423u - 12.5365 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -169.480u^{44} + 104.741u^{43} + \dots - 753.380u + 225.998 \\ 20.4564u^{44} - 6.85171u^{43} + \dots + 8.53235u - 0.306235 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 63.2380u^{44} - 43.1812u^{43} + \dots + 148.906u - 45.4585 \\ 76.6733u^{44} - 48.8350u^{43} + \dots + 373.686u - 104.553 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -211.403u^{44} + 134.826u^{43} + \dots - 869.014u + 262.728 \\ 176.889u^{44} - 109.778u^{43} + \dots + 750.814u - 220.833 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 168.051u^{44} - 117.513u^{43} + \dots + 639.729u - 186.099 \\ -162.248u^{44} + 93.5229u^{43} + \dots - 896.172u + 248.336 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 253.015u^{44} - 93.7555u^{43} + \dots + 1374.65u - 343.733 \\ -114.616u^{44} + 1.83663u^{43} + \dots + 830.116u + 178.406 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $156.795u^{44} 98.4542u^{43} + \cdots + 1159.09u 320.528$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{45} - 18u^{44} + \dots + 16u - 1$
c_2	$u^{45} - 9u^{43} + \dots - 2u + 1$
c_3	$u^{45} - u^{44} + \dots + 13u + 1$
c_4	$u^{45} + 2u^{44} + \dots + 260u - 25$
<i>C</i> ₅	$u^{45} + 3u^{44} + \dots - 3u - 1$
	$u^{45} - 11u^{43} + \dots + 2u - 1$
	$u^{45} - 9u^{43} + \dots - 2u - 1$
<i>c</i> ₈	$u^{45} - 3u^{44} + \dots - 3u + 1$
<i>C</i> 9	$u^{45} + 6u^{44} + \dots + 25u - 1$
c_{10}	$u^{45} - 3u^{44} + \dots - 5u + 1$
c_{11}	$u^{45} - 11u^{43} + \dots + 2u + 1$
c_{12}	$u^{45} + u^{44} + \dots + 5u - 1$
	or.

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{45} + 10y^{44} + \dots - 68y - 1$
c_2, c_7	$y^{45} - 18y^{44} + \dots + 16y - 1$
c_3	$y^{45} + 23y^{44} + \dots - 195y - 1$
C4	$y^{45} + 12y^{44} + \dots + 31200y - 625$
c_5, c_8	$y^{45} - 21y^{44} + \dots + 41y - 1$
c_6, c_{11}	$y^{45} - 22y^{44} + \dots + 34y - 1$
<i>c</i> 9	$y^{45} + 10y^{44} + \dots + 1005y - 1$
c_{10}	$y^{45} + 7y^{44} + \dots - 13y - 1$
c_{12}	$y^{45} - 7y^{44} + \dots + y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.964090 + 0.242803I		
a = -0.282390 - 1.221290I	3.59003 - 2.31975I	-60.10 + 1.041186I
b = 0.125420 + 1.260860I		
u = 0.964090 - 0.242803I		
a = -0.282390 + 1.221290I	3.59003 + 2.31975I	-60.10 - 1.041186I
b = 0.125420 - 1.260860I		
u = -0.959146 + 0.242534I		
a = 0.79059 - 1.20853I	4.58620 - 2.19985I	3.66329 + 1.69112I
b = -0.216428 + 1.271450I		
u = -0.959146 - 0.242534I		
a = 0.79059 + 1.20853I	4.58620 + 2.19985I	3.66329 - 1.69112I
b = -0.216428 - 1.271450I		
u = -0.957637 + 0.243502I		
a = 0.97640 - 1.78302I	4.58120 + 0.23791I	4.57362 + 3.33921I
b = -0.243427 + 1.258260I		
u = -0.957637 - 0.243502I		
a = 0.97640 + 1.78302I	4.58120 - 0.23791I	4.57362 - 3.33921I
b = -0.243427 - 1.258260I		
u = 0.949906 + 0.244837I		
a = -0.70966 - 1.97587I	3.54465 + 4.28953I	-3.05990 - 6.63060I
b = 0.359179 + 1.255660I		
u = 0.949906 - 0.244837I		
a = -0.70966 + 1.97587I	3.54465 - 4.28953I	-3.05990 + 6.63060I
b = 0.359179 - 1.255660I		
u = 0.858689 + 0.364218I		
a = 0.37469 - 2.52586I	-2.97736 + 3.87281I	-8.56679 - 6.81581I
b = -0.691733 + 0.542090I		
u = 0.858689 - 0.364218I		
a = 0.37469 + 2.52586I	-2.97736 - 3.87281I	-8.56679 + 6.81581I
b = -0.691733 - 0.542090I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.806122 + 0.740689I		
a = 0.035583 - 0.558260I	-2.61437 + 0.39302I	-12.77020 + 0.I
b = 0.896200 + 0.350471I		
u = 0.806122 - 0.740689I		
a = 0.035583 + 0.558260I	-2.61437 - 0.39302I	-12.77020 + 0.I
b = 0.896200 - 0.350471I		
u = -1.007360 + 0.675789I		
a = -0.07622 - 1.46566I	-3.09532 - 3.77074I	0
b = 1.037820 + 0.458785I		
u = -1.007360 - 0.675789I		
a = -0.07622 + 1.46566I	-3.09532 + 3.77074I	0
b = 1.037820 - 0.458785I		
u = 1.097890 + 0.583150I		
a = -0.55311 - 1.32514I	1.61900 + 7.74785I	0
b = -1.097110 + 0.535934I		
u = 1.097890 - 0.583150I		
a = -0.55311 + 1.32514I	1.61900 - 7.74785I	0
b = -1.097110 - 0.535934I		
u = 0.702954 + 0.220152I		
a = -0.98333 - 4.17715I	1.03267 + 8.07498I	-4.5283 - 14.8644I
b = -0.605929 + 0.254052I		
u = 0.702954 - 0.220152I		
a = -0.98333 + 4.17715I	1.03267 - 8.07498I	-4.5283 + 14.8644I
b = -0.605929 - 0.254052I		
u = 1.183690 + 0.484351I		
a = -0.07097 - 1.83813I	1.06853 + 5.96165I	0
b = -1.214500 + 0.618082I		
u = 1.183690 - 0.484351I		
a = -0.07097 + 1.83813I	1.06853 - 5.96165I	0
b = -1.214500 - 0.618082I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.220269 + 1.313360I		
a = -0.478877 - 0.443868I	-5.08415 + 5.15610I	0
b = -0.981482 + 0.245749I		
u = 0.220269 - 1.313360I		
a = -0.478877 + 0.443868I	-5.08415 - 5.15610I	0
b = -0.981482 - 0.245749I		
u = -1.235450 + 0.498092I		
a = -0.23231 - 1.70238I	-0.08083 - 10.35810I	0
b = 1.259850 + 0.569906I		
u = -1.235450 - 0.498092I		
a = -0.23231 + 1.70238I	-0.08083 + 10.35810I	0
b = 1.259850 - 0.569906I		
u = -0.629391 + 0.207489I		
a = 1.71578 - 3.81793I	1.61016 - 2.57258I	-4.81084 + 7.97752I
b = 0.661688 + 0.198168I		
u = -0.629391 - 0.207489I		
a = 1.71578 + 3.81793I	1.61016 + 2.57258I	-4.81084 - 7.97752I
b = 0.661688 - 0.198168I		
u = -1.345380 + 0.100998I		
a = 0.997625 - 0.770324I	5.05391 - 2.17658I	0
b = -0.481044 + 0.076544I		
u = -1.345380 - 0.100998I		
a = 0.997625 + 0.770324I	5.05391 + 2.17658I	0
b = -0.481044 - 0.076544I		
u = -1.350870 + 0.241579I		
a = 0.947104 + 0.059571I	4.40375 - 3.96967I	0
b = -0.534258 + 0.163498I		
u = -1.350870 - 0.241579I		
a = 0.947104 - 0.059571I	4.40375 + 3.96967I	0
b = -0.534258 - 0.163498I		
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Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.617358 + 0.063420I		
a = 0.654963 - 0.628792I	-6.69561 - 0.16039I	-3.39390 - 7.52063I
b = -1.58691 + 0.16000I		
u = -0.617358 - 0.063420I		
a = 0.654963 + 0.628792I	-6.69561 + 0.16039I	-3.39390 + 7.52063I
b = -1.58691 - 0.16000I		
u = 1.378970 + 0.044639I		
a = -0.526287 - 0.941899I	4.14930 + 7.09487I	0
b = 0.496159 + 0.031157I		
u = 1.378970 - 0.044639I		
a = -0.526287 + 0.941899I	4.14930 - 7.09487I	0
b = 0.496159 - 0.031157I		
u = -0.570882 + 0.107070I		
a = -0.424254 + 1.302530I	-3.34994 + 7.50143I	-2.66711 - 12.05748I
b = -1.45458 + 0.20173I		
u = -0.570882 - 0.107070I		
a = -0.424254 - 1.302530I	-3.34994 - 7.50143I	-2.66711 + 12.05748I
b = -1.45458 - 0.20173I		
u = -0.63633 + 1.34818I		
a = -0.181093 - 0.243156I	-4.86929 - 3.18143I	0
b = -0.925507 + 0.236497I		
u = -0.63633 - 1.34818I		
a = -0.181093 + 0.243156I	-4.86929 + 3.18143I	0
b = -0.925507 - 0.236497I		
u = 0.458593 + 0.169938I		
a = 0.40116 + 1.70926I	-1.77503 - 2.48008I	-3.28876 + 5.08121I
b = 1.271790 + 0.188973I		
u = 0.458593 - 0.169938I		
a = 0.40116 - 1.70926I	-1.77503 + 2.48008I	-3.28876 - 5.08121I
b = 1.271790 - 0.188973I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.250198 + 0.312579I		
a = 1.48588 + 1.84248I	-1.85665 - 2.39705I	-3.88504 + 4.19191I
b = 1.086840 + 0.181478I		
u = 0.250198 - 0.312579I		
a = 1.48588 - 1.84248I	-1.85665 + 2.39705I	-3.88504 - 4.19191I
b = 1.086840 - 0.181478I		
u = -0.44349 + 1.66479I		
a = 0.250840 - 0.021781I	-0.185308 - 0.732082I	0
b = 1.004950 + 0.227398I		
u = -0.44349 - 1.66479I		
a = 0.250840 + 0.021781I	-0.185308 + 0.732082I	0
b = 1.004950 - 0.227398I		
u = 1.76384		
a = -0.224208	1.26869	0
b = 0.666001		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{45} - 18u^{44} + \dots + 16u - 1)(u^{180} + 71u^{179} + \dots + 772300u + 22801) \right $
c_2	$(u^{45} - 9u^{43} + \dots - 2u + 1)(u^{180} + u^{179} + \dots - 180u - 151)$
c_3	$(u^{45} - u^{44} + \dots + 13u + 1)(u^{180} + 2u^{179} + \dots - 45u + 1)$
<i>c</i> ₄	$(u^{45} + 2u^{44} + \dots + 260u - 25)$ $\cdot (u^{180} - u^{179} + \dots + 565923008u - 391286809)$
c_5	$ (u^{45} + 3u^{44} + \dots - 3u - 1)(u^{180} + 2u^{179} + \dots + 731401u + 82807) $
c_6	$ (u^{45} - 11u^{43} + \dots + 2u - 1)(u^{180} + u^{179} + \dots - 758u - 1021) $
c_7	$ (u^{45} - 9u^{43} + \dots - 2u - 1)(u^{180} + u^{179} + \dots - 180u - 151) $
c_8	$ (u^{45} - 3u^{44} + \dots - 3u + 1)(u^{180} + 2u^{179} + \dots + 731401u + 82807) $
c_9	$ (u^{45} + 6u^{44} + \dots + 25u - 1)(u^{180} - 5u^{179} + \dots - 3167561u - 887597) $
c_{10}	$(u^{45} - 3u^{44} + \dots - 5u + 1)(u^{180} - 14u^{179} + \dots - 360019u + 18833)$
c_{11}	$(u^{45} - 11u^{43} + \dots + 2u + 1)(u^{180} + u^{179} + \dots - 758u - 1021)$
c ₁₂	$(u^{45} + u^{44} + \dots + 5u - 1)(u^{180} + 12u^{179} + \dots + 305u + 25)$ 33

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{45} + 10y^{44} + \dots - 68y - 1)$ $\cdot (y^{180} + 69y^{179} + \dots + 393405409088y + 519885601)$
c_2, c_7	$(y^{45} - 18y^{44} + \dots + 16y - 1)(y^{180} - 71y^{179} + \dots - 772300y + 22801)$
c_3	$(y^{45} + 23y^{44} + \dots - 195y - 1)(y^{180} + 26y^{179} + \dots - 13y + 1)$
c_4	$(y^{45} + 12y^{44} + \dots + 31200y - 625)$ $\cdot (y^{180} - 17y^{179} + \dots - 768200127417898812y + 153105366897402481)$
c_5,c_8	$(y^{45} - 21y^{44} + \dots + 41y - 1)$ $\cdot (y^{180} - 90y^{179} + \dots - 186489273469y + 6856999249)$
c_6, c_{11}	$(y^{45} - 22y^{44} + \dots + 34y - 1)$ $\cdot (y^{180} - 95y^{179} + \dots - 38394446y + 1042441)$
<i>C</i> 9	$(y^{45} + 10y^{44} + \dots + 1005y - 1)$ $\cdot (y^{180} + y^{179} + \dots - 19198314861057y + 787828434409)$
c_{10}	$(y^{45} + 7y^{44} + \dots - 13y - 1)$ $\cdot (y^{180} + 30y^{179} + \dots + 35805184153y + 354681889)$
c_{12}	$(y^{45} - 7y^{44} + \dots + y - 1)(y^{180} + 156y^{178} + \dots + 35575y + 625)$