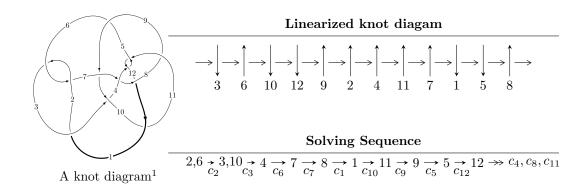
$12a_{0457} (K12a_{0457})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.58709 \times 10^{561} u^{181} + 9.87432 \times 10^{561} u^{180} + \dots + 5.35199 \times 10^{561} b - 9.54773 \times 10^{562}, \\ &- 1.66259 \times 10^{562} u^{181} - 2.79221 \times 10^{562} u^{180} + \dots + 5.88719 \times 10^{562} a + 3.00657 \times 10^{563}, \\ &u^{182} - u^{181} + \dots + 195 u - 11 \rangle \\ I_2^u &= \langle -2.94627 \times 10^{21} u^{46} + 1.06794 \times 10^{22} u^{45} + \dots + 2.90616 \times 10^{21} b - 2.06732 \times 10^{22}, \\ &- 4.24175 \times 10^{21} u^{46} + 1.09748 \times 10^{22} u^{45} + \dots + 2.90616 \times 10^{21} a - 1.94328 \times 10^{22}, \\ &u^{47} + 13 u^{45} + \dots + 3 u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 229 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.
$$I_1^u = \langle 1.59 \times 10^{561} u^{181} + 9.87 \times 10^{561} u^{180} + \dots + 5.35 \times 10^{561} b - 9.55 \times 10^{562}, -1.66 \times 10^{562} u^{181} - 2.79 \times 10^{562} u^{180} + \dots + 5.89 \times 10^{562} a + 3.01 \times 10^{563}, \ u^{182} - u^{181} + \dots + 195 u - 11 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_2=\begin{pmatrix} 1\\0 \end{pmatrix} \\ a_6=\begin{pmatrix} 0\\u \end{pmatrix} \\ a_3=\begin{pmatrix} 1\\-u^2 \end{pmatrix} \\ a_{10}=\begin{pmatrix} 0.282408u^{181}+0.474286u^{180}+\cdots-7.81834u-5.10697\\-0.296542u^{181}-1.84498u^{180}+\cdots-292.837u+17.8396 \end{pmatrix} \\ a_4=\begin{pmatrix} 0.426730u^{181}+2.54621u^{180}+\cdots+524.087u-35.8491\\-0.183215u^{181}+2.67594u^{180}+\cdots+433.789u-26.9732 \end{pmatrix} \\ a_7=\begin{pmatrix} u\\u \end{pmatrix} \\ a_8=\begin{pmatrix} 0.0954184u^{181}+0.737891u^{180}+\cdots+78.8011u-1.90680\\-0.580714u^{181}-0.712417u^{180}+\cdots-101.183u+7.71908 \end{pmatrix} \\ a_1=\begin{pmatrix} u^2+1\\-u^4 \end{pmatrix} \\ a_{11}=\begin{pmatrix} 3.53650u^{181}-3.37660u^{180}+\cdots-747.932u+37.4265\\3.15967u^{181}-5.38431u^{180}+\cdots-1000.45u+57.9589 \end{pmatrix} \\ a_9=\begin{pmatrix} 2.86232u^{181}-2.41148u^{180}+\cdots-566.602u+26.7734\\2.28337u^{181}-4.73075u^{180}+\cdots-851.621u+49.7200 \end{pmatrix} \\ a_5=\begin{pmatrix} -0.133531u^{181}-1.04533u^{180}+\cdots-355.789u+27.2831\\1.09284u^{181}-1.93033u^{180}+\cdots-444.725u+26.6777 \end{pmatrix} \\ a_{12}=\begin{pmatrix} 0.727233u^{181}-1.06159u^{180}+\cdots-360.131u+18.9256\\0.934569u^{181}-1.03798u^{180}+\cdots-360.131u+18.9256\\0.934569u^{181}-1.03798u^{180}+\cdots-319.137u+7.79370 \end{pmatrix} \end{array}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-1.66160u^{181} 0.329436u^{180} + \cdots + 113.796u 4.78638$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{182} + 77u^{181} + \dots + 8263u + 121$
c_2, c_6	$u^{182} - u^{181} + \dots + 195u - 11$
<i>c</i> ₃	$u^{182} + 2u^{181} + \dots - 5309082u - 451273$
c_4,c_{11}	$u^{182} + 2u^{181} + \dots + 19u - 1$
<i>C</i> ₅	$u^{182} + 2u^{181} + \dots - 38159038193725u - 9874199002121$
	$u^{182} - 3u^{181} + \dots - 16973493258u + 2170070627$
<i>c</i> ₈	$u^{182} - 13u^{181} + \dots - 32599410u + 3488929$
<i>c</i> ₉	$u^{182} - 8u^{181} + \dots + 120499307u - 33795031$
c_{10}	$u^{182} - 16u^{181} + \dots + 87245097403u - 3309477077$
c_{12}	$u^{182} + u^{181} + \dots + 38826485u + 8693093$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{182} + 69y^{181} + \dots + 304853435y + 14641$
c_2, c_6	$y^{182} + 77y^{181} + \dots + 8263y + 121$
<i>c</i> ₃	$y^{182} + 44y^{181} + \dots - 374808253700y + 203647320529$
c_4, c_{11}	$y^{182} + 126y^{181} + \dots - 113y + 1$
<i>C</i> ₅	$y^{182} - 100y^{181} + \dots - 6.27 \times 10^{27}y + 9.75 \times 10^{25}$
	$y^{182} - 83y^{181} + \dots + 7.07 \times 10^{20}y + 4.71 \times 10^{18}$
<i>c</i> ₈	$y^{182} - 65y^{181} + \dots + 5327570686683198y + 12172625567041$
c_9	$y^{182} - 60y^{181} + \dots - 84230223266656641y + 1142104120290961$
c_{10}	$y^{182} + 70y^{181} + \dots - 5.83 \times 10^{20}y + 1.10 \times 10^{19}$
c_{12}	$y^{182} - 57y^{181} + \dots - 3145101509628851y + 75569865906649$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.631933 + 0.776970I		
a = -1.65261 - 1.75545I	6.97272 - 0.23557I	0
b = -1.74171 + 0.24098I		
u = 0.631933 - 0.776970I		
a = -1.65261 + 1.75545I	6.97272 + 0.23557I	0
b = -1.74171 - 0.24098I		
u = -0.632760 + 0.770322I		
a = -0.11056 + 2.39938I	7.91436 + 5.68837I	0
b = -0.34857 + 1.45255I		
u = -0.632760 - 0.770322I		
a = -0.11056 - 2.39938I	7.91436 - 5.68837I	0
b = -0.34857 - 1.45255I		
u = -0.505651 + 0.867835I		
a = 0.20529 - 2.28170I	2.46270 - 5.69294I	0
b = 1.57861 - 2.01284I		
u = -0.505651 - 0.867835I		
a = 0.20529 + 2.28170I	2.46270 + 5.69294I	0
b = 1.57861 + 2.01284I		
u = 0.555676 + 0.856464I		
a = -0.373690 + 0.189044I	0.73313 + 1.72700I	0
b = -1.375140 - 0.038000I		
u = 0.555676 - 0.856464I		
a = -0.373690 - 0.189044I	0.73313 - 1.72700I	0
b = -1.375140 + 0.038000I		
u = 0.553470 + 0.860165I		
a = -0.42398 - 1.46537I	0.72308 + 2.71161I	0
b = -0.057580 - 0.315865I		
u = 0.553470 - 0.860165I		
a = -0.42398 + 1.46537I	0.72308 - 2.71161I	0
b = -0.057580 + 0.315865I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.632870 + 0.807341I		
a = 1.37911 - 1.32103I	3.51581 - 0.69080I	0
b = 1.48733 + 0.40353I		
u = -0.632870 - 0.807341I		
a = 1.37911 + 1.32103I	3.51581 + 0.69080I	0
b = 1.48733 - 0.40353I		
u = 0.634227 + 0.807382I		
a = -0.75123 + 1.66878I	7.79532 - 4.87002I	0
b = 1.83427 + 1.96031I		
u = 0.634227 - 0.807382I		
a = -0.75123 - 1.66878I	7.79532 + 4.87002I	0
b = 1.83427 - 1.96031I		
u = 0.243407 + 1.001150I		
a = 0.530592 - 1.034200I	-1.57699 - 0.96008I	0
b = 1.145160 - 0.367665I		
u = 0.243407 - 1.001150I		
a = 0.530592 + 1.034200I	-1.57699 + 0.96008I	0
b = 1.145160 + 0.367665I		
u = -0.916874 + 0.471952I		
a = -0.002829 + 1.150230I	9.47112 + 2.17209I	0
b = -0.754882 + 0.535498I		
u = -0.916874 - 0.471952I		
a = -0.002829 - 1.150230I	9.47112 - 2.17209I	0
b = -0.754882 - 0.535498I		
u = 0.892126 + 0.527577I		
a = 0.659159 + 1.114030I	9.85070 - 2.32266I	0
b = 1.63494 + 0.05175I		
u = 0.892126 - 0.527577I		
a = 0.659159 - 1.114030I	9.85070 + 2.32266I	0
b = 1.63494 - 0.05175I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.663555 + 0.797112I		
a = 1.33810 - 0.99347I	7.55519 - 0.30516I	0
b = 2.29960 - 0.27379I		
u = -0.663555 - 0.797112I		
a = 1.33810 + 0.99347I	7.55519 + 0.30516I	0
b = 2.29960 + 0.27379I		
u = 0.650144 + 0.815932I		
a = 0.30077 + 2.29042I	3.47733 + 0.38218I	0
b = 0.63200 + 1.61924I		
u = 0.650144 - 0.815932I		
a = 0.30077 - 2.29042I	3.47733 - 0.38218I	0
b = 0.63200 - 1.61924I		
u = -0.874669 + 0.580375I		
a = 0.92398 - 1.08793I	4.85248 + 3.78665I	0
b = 1.371120 + 0.193415I		
u = -0.874669 - 0.580375I		
a = 0.92398 + 1.08793I	4.85248 - 3.78665I	0
b = 1.371120 - 0.193415I		
u = -0.458613 + 0.830611I		
a = 1.86473 - 0.59837I	2.58944 + 1.69215I	0
b = 1.59506 + 0.41043I		
u = -0.458613 - 0.830611I		
a = 1.86473 + 0.59837I	2.58944 - 1.69215I	0
b = 1.59506 - 0.41043I		
u = 0.933388 + 0.497942I		
a = -0.58218 - 1.36147I	8.58940 - 4.72156I	0
b = -1.320980 + 0.133542I		
u = 0.933388 - 0.497942I		
a = -0.58218 + 1.36147I	8.58940 + 4.72156I	0
b = -1.320980 - 0.133542I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
5.51807 + 8.96111I	0
5.51807 - 8.96111I	0
8.94932 + 0.14223I	0
8.94932 - 0.14223I	0
2.10752 + 1.81777I	0
2.10752 - 1.81777I	0
3.31560 - 4.24542I	0
3.31560 + 4.24542I	0
-0.02246 + 1.79724I	0
-0.02246 - 1.79724I	0
	5.51807 + 8.96111I $5.51807 - 8.96111I$ $8.94932 + 0.14223I$ $8.94932 - 0.14223I$ $2.10752 + 1.81777I$ $2.10752 - 1.81777I$ $3.31560 - 4.24542I$ $-0.02246 + 1.79724I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.220942 + 1.055330I		
a = 1.369150 + 0.012423I	1.95420 - 4.55320I	0
b = 0.549632 - 1.178900I		
u = 0.220942 - 1.055330I		
a = 1.369150 - 0.012423I	1.95420 + 4.55320I	0
b = 0.549632 + 1.178900I		
u = 0.637383 + 0.870473I		
a = 1.86831 + 0.16044I	3.31211 + 4.63591I	0
b = 2.33244 - 0.08278I		
u = 0.637383 - 0.870473I		
a = 1.86831 - 0.16044I	3.31211 - 4.63591I	0
b = 2.33244 + 0.08278I		
u = 0.937825 + 0.534651I		
a = 0.87212 + 1.15341I	10.2706 - 14.8755I	0
b = 1.55379 - 0.24257I		
u = 0.937825 - 0.534651I		
a = 0.87212 - 1.15341I	10.2706 + 14.8755I	0
b = 1.55379 + 0.24257I		
u = -0.708071 + 0.815604I		
a = -0.10069 + 1.94194I	8.20130 - 6.30272I	0
b = -0.70412 + 1.32099I		
u = -0.708071 - 0.815604I		
a = -0.10069 - 1.94194I	8.20130 + 6.30272I	0
b = -0.70412 - 1.32099I		
u = 0.441114 + 0.807249I		
a = -0.19134 - 2.42815I	-0.022971 + 0.996096I	0
b = -0.91796 - 1.43722I		
u = 0.441114 - 0.807249I		
a = -0.19134 + 2.42815I	-0.022971 - 0.996096I	0
b = -0.91796 + 1.43722I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.622855 + 0.886369I		
a = 2.24095 + 1.13511I	7.55009 + 9.79273I	0
b = 1.81291 - 1.50251I		
u = 0.622855 - 0.886369I		
a = 2.24095 - 1.13511I	7.55009 - 9.79273I	0
b = 1.81291 + 1.50251I		
u = -0.530823 + 0.745021I		
a = 0.502174 + 0.555666I	1.95963 + 1.72495I	0
b = -0.97541 + 1.32446I		
u = -0.530823 - 0.745021I		
a = 0.502174 - 0.555666I	1.95963 - 1.72495I	0
b = -0.97541 - 1.32446I		
u = -0.160219 + 0.897897I		
a = -0.901106 - 0.170529I	1.35572 - 4.86438I	0
b = 0.453433 + 0.217919I		
u = -0.160219 - 0.897897I		
a = -0.901106 + 0.170529I	1.35572 + 4.86438I	0
b = 0.453433 - 0.217919I		
u = -0.571472 + 0.927694I		
a = -1.298200 + 0.399511I	1.36817 - 6.19695I	0
b = -0.382575 - 0.835713I		
u = -0.571472 - 0.927694I		
a = -1.298200 - 0.399511I	1.36817 + 6.19695I	0
b = -0.382575 + 0.835713I		
u = 0.467156 + 0.986445I		_
a = -0.852742 - 0.656440I	-0.67167 + 2.67554I	0
b = -1.53925 - 0.07375I		
u = 0.467156 - 0.986445I		_
a = -0.852742 + 0.656440I	-0.67167 - 2.67554I	0
b = -1.53925 + 0.07375I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.973048 + 0.519295I		
a = 0.014391 + 0.866018I	5.32052 + 3.86352I	0
b = 0.755408 + 0.484817I		
u = 0.973048 - 0.519295I		
a = 0.014391 - 0.866018I	5.32052 - 3.86352I	0
b = 0.755408 - 0.484817I		
u = 0.854993 + 0.697740I		
a = -1.31960 - 0.90738I	8.01369 - 4.13820I	0
b = -1.73895 + 0.52611I		
u = 0.854993 - 0.697740I		
a = -1.31960 + 0.90738I	8.01369 + 4.13820I	0
b = -1.73895 - 0.52611I		
u = 0.733957 + 0.824303I		
a = 0.290309 - 1.384090I	7.38312 + 5.08653I	0
b = -1.54739 - 1.37090I		
u = 0.733957 - 0.824303I		
a = 0.290309 + 1.384090I	7.38312 - 5.08653I	0
b = -1.54739 + 1.37090I		
u = -0.646203 + 0.895156I		
a = 0.94098 - 2.16469I	7.25316 - 4.78011I	0
b = 1.63609 - 0.98694I		
u = -0.646203 - 0.895156I		
a = 0.94098 + 2.16469I	7.25316 + 4.78011I	0
b = 1.63609 + 0.98694I		
u = 0.622702 + 0.911924I		
a = -0.56426 - 1.60083I	6.55259 + 5.15491I	0
b = -2.29930 - 1.39669I		
u = 0.622702 - 0.911924I		
a = -0.56426 + 1.60083I	6.55259 - 5.15491I	0
b = -2.29930 + 1.39669I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.625395 + 0.915387I		
a = -1.72882 - 0.21541I	7.46437 - 10.62170I	0
b = -2.36328 - 0.43256I		
u = -0.625395 - 0.915387I		
a = -1.72882 + 0.21541I	7.46437 + 10.62170I	0
b = -2.36328 + 0.43256I		
u = 0.086041 + 1.105460I		
a = 0.149188 - 0.169317I	-1.74919 + 2.67650I	0
b = -0.644765 + 0.259046I		
u = 0.086041 - 1.105460I		
a = 0.149188 + 0.169317I	-1.74919 - 2.67650I	0
b = -0.644765 - 0.259046I		
u = 0.146549 + 1.101730I		
a = -0.094814 + 0.750696I	-1.22941 + 1.28711I	0
b = -0.701831 + 0.844087I		
u = 0.146549 - 1.101730I		
a = -0.094814 - 0.750696I	-1.22941 - 1.28711I	0
b = -0.701831 - 0.844087I		
u = 0.728249 + 0.850972I		
a = -1.19782 - 1.01054I	7.30499 + 0.45145I	0
b = -1.45992 + 0.72846I		
u = 0.728249 - 0.850972I		
a = -1.19782 + 1.01054I	7.30499 - 0.45145I	0
b = -1.45992 - 0.72846I		
u = -0.170408 + 1.111120I		
a = -0.518963 + 0.268132I	-5.42453 - 0.61915I	0
b = 0.232205 - 0.164738I		
u = -0.170408 - 1.111120I		
a = -0.518963 - 0.268132I	-5.42453 + 0.61915I	0
b = 0.232205 + 0.164738I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.713965 + 0.869974I		
a = -1.333890 + 0.188730I	8.04336 + 0.87793I	0
b = -1.74912 - 0.20946I		
u = -0.713965 - 0.869974I		
a = -1.333890 - 0.188730I	8.04336 - 0.87793I	0
b = -1.74912 + 0.20946I		
u = -0.203912 + 0.850305I		
a = 0.21411 + 1.85695I	-0.65134 + 1.63840I	0
b = -0.88888 + 1.25171I		
u = -0.203912 - 0.850305I		
a = 0.21411 - 1.85695I	-0.65134 - 1.63840I	0
b = -0.88888 - 1.25171I		
u = -1.013160 + 0.496296I		
a = 0.173474 + 0.797453I	9.87586 - 9.51235I	0
b = -0.726329 + 0.525125I		
u = -1.013160 - 0.496296I		
a = 0.173474 - 0.797453I	9.87586 + 9.51235I	0
b = -0.726329 - 0.525125I		
u = -0.509438 + 1.010740I		
a = -0.657047 + 0.822412I	1.34232 - 5.62268I	0
b = -0.174623 + 0.531939I		
u = -0.509438 - 1.010740I		
a = -0.657047 - 0.822412I	1.34232 + 5.62268I	0
b = -0.174623 - 0.531939I		
u = 0.194485 + 1.115360I		
a = 0.350100 + 0.186108I	-3.11951 + 4.78627I	0
b = -0.608444 - 0.027519I		
u = 0.194485 - 1.115360I		
a = 0.350100 - 0.186108I	-3.11951 - 4.78627I	0
b = -0.608444 + 0.027519I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.577569 + 0.986336I		
a = -1.30379 - 2.11625I	0.52117 + 6.74313I	0
b = -1.95283 - 1.76243I		
u = 0.577569 - 0.986336I		
a = -1.30379 + 2.11625I	0.52117 - 6.74313I	0
b = -1.95283 + 1.76243I		
u = 0.539310 + 1.017660I		
a = 0.48284 + 1.45251I	-1.04203 + 1.94035I	0
b = 1.21063 + 1.31370I		
u = 0.539310 - 1.017660I		
a = 0.48284 - 1.45251I	-1.04203 - 1.94035I	0
b = 1.21063 - 1.31370I		
u = -0.674362 + 0.513171I		
a = 0.217297 - 1.068620I	4.23188 + 1.98085I	0
b = 0.480136 + 0.394938I		
u = -0.674362 - 0.513171I		
a = 0.217297 + 1.068620I	4.23188 - 1.98085I	0
b = 0.480136 - 0.394938I		
u = 0.523596 + 0.665424I		
a = -1.93350 - 1.53251I	1.55166 - 2.20765I	0
b = -2.02164 - 0.92803I		
u = 0.523596 - 0.665424I		
a = -1.93350 + 1.53251I	1.55166 + 2.20765I	0
b = -2.02164 + 0.92803I		
u = -0.249633 + 1.135220I		
a = 0.027284 + 0.876617I	-0.220552 - 1.380440I	0
b = 0.425806 + 1.195920I		
u = -0.249633 - 1.135220I		
a = 0.027284 - 0.876617I	-0.220552 + 1.380440I	0
b = 0.425806 - 1.195920I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.037010 + 0.528193I		
a = -0.277213 - 0.530078I	3.34061 - 1.52937I	0
b = -0.764643 + 0.016513I		
u = 1.037010 - 0.528193I		
a = -0.277213 + 0.530078I	3.34061 + 1.52937I	0
b = -0.764643 - 0.016513I		
u = 0.564420 + 1.019640I		
a = 0.96255 + 2.32046I	4.08712 + 10.98160I	0
b = 2.72476 + 1.11435I		
u = 0.564420 - 1.019640I		
a = 0.96255 - 2.32046I	4.08712 - 10.98160I	0
b = 2.72476 - 1.11435I		
u = 0.817225 + 0.131367I		
a = 0.461699 - 0.183311I	2.67857 - 0.12645I	0
b = -0.289638 - 0.615141I		
u = 0.817225 - 0.131367I		
a = 0.461699 + 0.183311I	2.67857 + 0.12645I	0
b = -0.289638 + 0.615141I		
u = -0.576283 + 1.037330I		
a = -0.71881 + 1.62776I	-2.87088 - 6.14959I	0
b = -1.67056 + 1.09790I		
u = -0.576283 - 1.037330I		
a = -0.71881 - 1.62776I	-2.87088 + 6.14959I	0
b = -1.67056 - 1.09790I		
u = -0.993083 + 0.654574I		
a = 0.791409 - 0.430790I	5.05745 + 5.24853I	0
b = 0.908179 + 0.513341I		
u = -0.993083 - 0.654574I		
a = 0.791409 + 0.430790I	5.05745 - 5.24853I	0
b = 0.908179 - 0.513341I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.618399 + 1.017950I		
a = 0.042351 - 0.951694I	2.84228 - 6.99204I	0
b = 1.33266 - 0.96303I		
u = -0.618399 - 1.017950I		
a = 0.042351 + 0.951694I	2.84228 + 6.99204I	0
b = 1.33266 + 0.96303I		
u = -0.434782 + 1.111920I		
a = -1.57044 + 1.24088I	-2.87850 - 3.79731I	0
b = -1.77955 - 0.25057I		
u = -0.434782 - 1.111920I		
a = -1.57044 - 1.24088I	-2.87850 + 3.79731I	0
b = -1.77955 + 0.25057I		
u = 0.711411 + 0.365807I		
a = 0.805096 + 0.334688I	3.58911 - 0.88670I	0
b = 0.535882 + 0.327142I		
u = 0.711411 - 0.365807I		
a = 0.805096 - 0.334688I	3.58911 + 0.88670I	0
b = 0.535882 - 0.327142I		
u = -0.204114 + 1.185610I		
a = -0.512736 - 0.326345I	-0.10040 + 3.87106I	0
b = -1.333950 + 0.328440I		
u = -0.204114 - 1.185610I		
a = -0.512736 + 0.326345I	-0.10040 - 3.87106I	0
b = -1.333950 - 0.328440I		
u = 0.590716 + 1.063190I		
a = 0.618335 + 1.154470I	1.68765 + 5.78923I	0
b = 0.832829 + 1.044430I		
u = 0.590716 - 1.063190I		
a = 0.618335 - 1.154470I	1.68765 - 5.78923I	0
b = 0.832829 - 1.044430I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.585565 + 1.067670I		
a = 1.21297 - 1.62955I	2.50984 - 11.35040I	0
b = 2.15101 - 1.53445I		
u = -0.585565 - 1.067670I		
a = 1.21297 + 1.62955I	2.50984 + 11.35040I	0
b = 2.15101 + 1.53445I		
u = -0.044565 + 1.229110I		
a = 0.576218 + 0.302744I	3.23753 - 0.36287I	0
b = 0.196655 - 0.332669I		
u = -0.044565 - 1.229110I		
a = 0.576218 - 0.302744I	3.23753 + 0.36287I	0
b = 0.196655 + 0.332669I		
u = 0.427223 + 1.161480I		
a = -0.918195 + 0.185948I	-0.55666 + 4.50618I	0
b = -0.541547 + 0.722478I		
u = 0.427223 - 1.161480I		
a = -0.918195 - 0.185948I	-0.55666 - 4.50618I	0
b = -0.541547 - 0.722478I		
u = -0.005505 + 0.751358I		
a = -0.176930 + 1.261560I	-0.77236 + 1.52882I	0
b = -0.630785 + 0.994855I		
u = -0.005505 - 0.751358I		
a = -0.176930 - 1.261560I	-0.77236 - 1.52882I	0
b = -0.630785 - 0.994855I		
u = 0.729845 + 1.023020I		
a = -0.50569 - 1.91253I	6.99383 + 10.04510I	0
b = -1.91801 - 1.54028I		
u = 0.729845 - 1.023020I		
a = -0.50569 + 1.91253I	6.99383 - 10.04510I	0
b = -1.91801 + 1.54028I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.200601 + 0.714857I		
a = 0.021009 + 0.570723I	4.09160 - 1.35588I	0
b = 0.63334 + 1.54260I		
u = 0.200601 - 0.714857I		
a = 0.021009 - 0.570723I	4.09160 + 1.35588I	0
b = 0.63334 - 1.54260I		
u = -0.654939 + 0.333048I		
a = 1.08324 - 1.90308I	4.44877 + 6.55534I	0
b = 0.945704 - 0.385788I		
u = -0.654939 - 0.333048I		
a = 1.08324 + 1.90308I	4.44877 - 6.55534I	0
b = 0.945704 + 0.385788I		
u = -0.709868 + 0.145215I		
a = -1.023740 - 0.251496I	3.75874 + 1.68486I	0
b = -0.110923 + 0.361589I		
u = -0.709868 - 0.145215I		
a = -1.023740 + 0.251496I	3.75874 - 1.68486I	0
b = -0.110923 - 0.361589I		
u = 0.385403 + 0.610138I		
a = 0.56714 + 3.03938I	5.50665 - 6.62844I	0
b = 2.04152 + 0.51314I		
u = 0.385403 - 0.610138I		
a = 0.56714 - 3.03938I	5.50665 + 6.62844I	0
b = 2.04152 - 0.51314I		
u = -0.695320 + 1.078710I		
a = 0.72521 - 1.55863I	3.32118 - 9.60903I	0
b = 1.92975 - 1.26630I		
u = -0.695320 - 1.078710I		
a = 0.72521 + 1.55863I	3.32118 + 9.60903I	0
b = 1.92975 + 1.26630I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.056722 + 1.288920I		
a = -0.349135 + 0.308909I	-1.41708 + 6.73353I	0
b = 0.185160 - 0.241916I		
u = 0.056722 - 1.288920I		
a = -0.349135 - 0.308909I	-1.41708 - 6.73353I	0
b = 0.185160 + 0.241916I		
u = -0.167537 + 0.688669I		
a = 1.69646 - 1.80585I	4.84605 + 6.84021I	0
b = 0.82884 - 1.93265I		
u = -0.167537 - 0.688669I		
a = 1.69646 + 1.80585I	4.84605 - 6.84021I	0
b = 0.82884 + 1.93265I		
u = -0.069902 + 1.297340I		
a = 0.289034 + 0.212919I	3.18249 - 12.63460I	0
b = -0.348906 - 0.421935I		
u = -0.069902 - 1.297340I		
a = 0.289034 - 0.212919I	3.18249 + 12.63460I	0
b = -0.348906 + 0.421935I		
u = 0.686507 + 1.103850I		
a = 0.99479 + 1.60122I	8.09406 + 8.15155I	0
b = 2.05026 + 0.86912I		
u = 0.686507 - 1.103850I		
a = 0.99479 - 1.60122I	8.09406 - 8.15155I	0
b = 2.05026 - 0.86912I		
u = -0.702473 + 1.094520I		
a = 0.935181 - 0.897488I	7.28269 - 6.07527I	0
b = 1.69740 - 0.01509I		
u = -0.702473 - 1.094520I		
a = 0.935181 + 0.897488I	7.28269 + 6.07527I	0
b = 1.69740 + 0.01509I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.571033 + 0.394466I		
a = -0.506027 + 1.083950I	-1.19130 + 1.52333I	0
b = -1.059800 + 0.095444I		
u = -0.571033 - 0.394466I		
a = -0.506027 - 1.083950I	-1.19130 - 1.52333I	0
b = -1.059800 - 0.095444I		
u = 0.030053 + 1.314570I		
a = 0.144730 - 0.030201I	1.89553 - 2.06321I	0
b = 0.625785 + 0.764264I		
u = 0.030053 - 1.314570I		
a = 0.144730 + 0.030201I	1.89553 + 2.06321I	0
b = 0.625785 - 0.764264I		
u = -0.698302 + 1.115550I		
a = -0.88814 + 1.61031I	3.7128 - 14.9173I	0
b = -2.04129 + 1.13634I		
u = -0.698302 - 1.115550I		
a = -0.88814 - 1.61031I	3.7128 + 14.9173I	0
b = -2.04129 - 1.13634I		
u = 0.705862 + 1.118890I		
a = 0.85586 + 1.66872I	8.4718 + 20.8976I	0
b = 2.16568 + 1.24527I		
u = 0.705862 - 1.118890I		
a = 0.85586 - 1.66872I	8.4718 - 20.8976I	0
b = 2.16568 - 1.24527I		
u = 0.694165 + 1.129420I		
a = -0.89641 - 1.35636I	6.66120 + 10.68300I	0
b = -2.24140 - 0.99567I		
u = 0.694165 - 1.129420I		
a = -0.89641 + 1.35636I	6.66120 - 10.68300I	0
b = -2.24140 + 0.99567I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.680179 + 1.141450I		
a = -0.938489 + 0.532856I	7.43358 - 8.04637I	0
b = -1.54289 + 0.19451I		
u = -0.680179 - 1.141450I		
a = -0.938489 - 0.532856I	7.43358 + 8.04637I	0
b = -1.54289 - 0.19451I		
u = -0.763295 + 1.097840I		
a = 0.192795 - 1.295980I	3.63109 - 11.64310I	0
b = 1.22278 - 1.30196I		
u = -0.763295 - 1.097840I		
a = 0.192795 + 1.295980I	3.63109 + 11.64310I	0
b = 1.22278 + 1.30196I		
u = 0.742796 + 1.125820I		
a = 0.668055 + 0.588349I	3.47793 + 2.36793I	0
b = 1.176600 + 0.256881I		
u = 0.742796 - 1.125820I		
a = 0.668055 - 0.588349I	3.47793 - 2.36793I	0
b = 1.176600 - 0.256881I		
u = 0.738616 + 1.135540I		
a = -0.428486 - 0.965150I	1.45987 + 7.89561I	0
b = -1.189650 - 0.716519I		
u = 0.738616 - 1.135540I		
a = -0.428486 + 0.965150I	1.45987 - 7.89561I	0
b = -1.189650 + 0.716519I		
u = -0.618649		
a = 0.728192	0.108098	18.3330
b = -1.47428		
u = 0.562659 + 0.228411I		
a = 0.945412 + 0.855370I	0.84694 + 2.23725I	2.54330 - 3.84278I
b = 0.586457 - 0.241341I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.562659 - 0.228411I		
a = 0.945412 - 0.855370I	0.84694 - 2.23725I	2.54330 + 3.84278I
b = 0.586457 + 0.241341I		
u = -0.770982 + 1.182260I		
a = -0.594503 + 0.367484I	7.80521 + 3.05961I	0
b = -1.020820 - 0.041310I		
u = -0.770982 - 1.182260I		
a = -0.594503 - 0.367484I	7.80521 - 3.05961I	0
b = -1.020820 + 0.041310I		
u = -0.141811 + 0.549699I		
a = 0.34715 - 2.56347I	4.51012 + 1.72030I	0.49044 - 1.85993I
b = -0.0165403 - 0.1231980I		
u = -0.141811 - 0.549699I		
a = 0.34715 + 2.56347I	4.51012 - 1.72030I	0.49044 + 1.85993I
b = -0.0165403 + 0.1231980I		
u = 0.374485 + 0.283341I		
a = -0.88619 + 2.66947I	5.56765 - 6.66225I	5.36030 + 6.55661I
b = 1.46903 + 0.11597I		
u = 0.374485 - 0.283341I		
a = -0.88619 - 2.66947I	5.56765 + 6.66225I	5.36030 - 6.55661I
b = 1.46903 - 0.11597I		
u = 0.14773 + 1.63388I		
a = 0.0033641 - 0.0610754I	-4.47645 + 2.73175I	0
b = -0.0887299 + 0.1079550I		
u = 0.14773 - 1.63388I		
a = 0.0033641 + 0.0610754I	-4.47645 - 2.73175I	0
b = -0.0887299 - 0.1079550I		
u = 0.336438		
a = 2.28414	1.12439	10.6810
b = 0.0562635		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.0623672 + 0.0747386I		
a = -5.34145 - 6.44249I	1.12920 - 2.58936I	0.42597 + 5.07188I
b = -0.345911 - 1.109320I		
u = 0.0623672 - 0.0747386I		
a = -5.34145 + 6.44249I	1.12920 + 2.58936I	0.42597 - 5.07188I
b = -0.345911 + 1.109320I		

II.
$$I_2^u = \langle -2.95 \times 10^{21} u^{46} + 1.07 \times 10^{22} u^{45} + \dots + 2.91 \times 10^{21} b - 2.07 \times 10^{22}, -4.24 \times 10^{21} u^{46} + 1.10 \times 10^{22} u^{45} + \dots + 2.91 \times 10^{21} a - 1.94 \times 10^{22}, \ u^{47} + 13 u^{45} + \dots + 3 u - 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.45958u^{46} - 3.77640u^{45} + \dots - 30.9327u + 6.68676 \\ 1.01380u^{46} - 3.67476u^{45} + \dots - 19.5665u + 7.11359 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.302165u^{46} + 2.44020u^{45} + \dots + 5.29151u - 1.11671 \\ -2.63569u^{46} + 2.70010u^{45} + \dots + 27.5084u - 7.35340 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} -0.00106704u^{46} - 2.84660u^{45} + \dots - 15.6523u + 12.7076 \\ -1.19251u^{46} - 3.16155u^{45} + \dots - 14.3785u + 4.22262 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} 1.78115u^{46} - 2.23666u^{45} + \dots - 25.1525u + 3.86813 \\ 1.73175u^{46} - 4.56115u^{45} + \dots - 25.3913u + 8.61756 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1.42381u^{46} - 3.18579u^{45} + \dots - 30.1820u + 6.58512 \\ 0.978037u^{46} - 3.08415u^{45} + \dots - 18.8158u + 7.01195 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.670719u^{46} + 1.30568u^{45} + \dots + 23.3545u - 3.63819 \\ -2.67977u^{46} - 0.323334u^{45} + \dots + 6.41448u - 0.970342 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1.92077u^{46} + 1.32074u^{45} + \dots - 3.40284u - 5.40605 \\ -2.30436u^{46} + 1.79297u^{45} + \dots + 4.23125u + 0.0152093 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{12910914326883785904614}{2906155135733335807861}u^{46} + \frac{5272590445832937649905}{2906155135733335807861}u^{45} + \cdots - \frac{93176596421378723968868}{2906155135733335807861}u + \frac{72209637471650966782954}{2906155135733335807861}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{47} - 26u^{46} + \dots - 23u + 1$
c_2	$u^{47} + 13u^{45} + \dots + 3u - 1$
c_3	$u^{47} - u^{46} + \dots - 4u + 1$
c_4	$u^{47} - u^{46} + \dots + 3u + 1$
c_5	$u^{47} - 5u^{46} + \dots + 15u + 1$
c_6	$u^{47} + 13u^{45} + \dots + 3u + 1$
c_7	$u^{47} + 2u^{46} + \dots + 2u - 11$
c_8	$u^{47} + 22u^{46} + \dots + 22u + 1$
c_9	$u^{47} - 19u^{46} + \dots + 21u - 1$
c_{10}	$u^{47} - 3u^{46} + \dots + 3u - 11$
c_{11}	$u^{47} + u^{46} + \dots + 3u - 1$
c_{12}	$u^{47} + 2u^{46} + \dots + 11u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{47} + 2y^{46} + \dots - 55y - 1$
c_{2}, c_{6}	$y^{47} + 26y^{46} + \dots - 23y - 1$
<i>c</i> ₃	$y^{47} + 9y^{46} + \dots - 64y - 1$
c_4, c_{11}	$y^{47} + 27y^{46} + \dots + y - 1$
<i>C</i> ₅	$y^{47} - 23y^{46} + \dots + 89y - 1$
	$y^{47} - 14y^{46} + \dots + 2732y - 121$
<i>c</i> ₈	$y^{47} - 16y^{46} + \dots + 30y - 1$
<i>c</i> ₉	$y^{47} - 19y^{46} + \dots + 41y - 1$
c_{10}	$y^{47} + 7y^{46} + \dots - 2213y - 121$
c_{12}	$y^{47} - 12y^{46} + \dots + 71y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.826824 + 0.613412I		
a = 0.94513 - 1.25009I	7.44732 + 3.05544I	9.45632 - 0.91967I
b = 1.63266 + 0.19249I		
u = -0.826824 - 0.613412I		
a = 0.94513 + 1.25009I	7.44732 - 3.05544I	9.45632 + 0.91967I
b = 1.63266 - 0.19249I		
u = 0.630113 + 0.820119I		
a = 0.309894 + 0.822110I	6.92593 + 8.80337I	7.27214 - 6.50001I
b = 0.055617 - 0.522152I		
u = 0.630113 - 0.820119I		
a = 0.309894 - 0.822110I	6.92593 - 8.80337I	7.27214 + 6.50001I
b = 0.055617 + 0.522152I		
u = -0.654943 + 0.824670I		
a = 0.633349 - 1.190940I	2.34700 - 0.49920I	3.99270 + 0.27873I
b = 0.568342 - 0.358259I		
u = -0.654943 - 0.824670I		
a = 0.633349 + 1.190940I	2.34700 + 0.49920I	3.99270 - 0.27873I
b = 0.568342 + 0.358259I		
u = -0.620546 + 0.851259I		
a = 0.521983 - 0.670106I	2.29223 - 4.48551I	2.64807 + 6.17876I
b = 1.45599 - 0.91429I		
u = -0.620546 - 0.851259I		
a = 0.521983 + 0.670106I	2.29223 + 4.48551I	2.64807 - 6.17876I
b = 1.45599 + 0.91429I		
u = 0.893904 + 0.602563I		
a = -0.997201 - 0.915179I	5.94450 - 4.42000I	10.36704 + 3.81851I
b = -1.261730 + 0.280176I		
u = 0.893904 - 0.602563I		
a = -0.997201 + 0.915179I	5.94450 + 4.42000I	10.36704 - 3.81851I
b = -1.261730 - 0.280176I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.262540 + 1.045610I		
a = 0.166980 + 1.086970I	-2.04368 - 0.95150I	-6.27689 - 0.95657I
b = 0.673564 + 1.111990I		
u = -0.262540 - 1.045610I		
a = 0.166980 - 1.086970I	-2.04368 + 0.95150I	-6.27689 + 0.95657I
b = 0.673564 - 1.111990I		
u = 0.705464 + 0.840248I		
a = -0.84390 - 1.63328I	7.67950 + 2.69845I	12.36475 - 3.04509I
b = -1.96716 - 0.60250I		
u = 0.705464 - 0.840248I		
a = -0.84390 + 1.63328I	7.67950 - 2.69845I	12.36475 + 3.04509I
b = -1.96716 + 0.60250I		
u = 0.102300 + 1.109330I		
a = 0.362174 - 0.441892I	-0.14442 - 3.27143I	2.00000 + 0.I
b = 1.223880 + 0.172344I		
u = 0.102300 - 1.109330I		
a = 0.362174 + 0.441892I	-0.14442 + 3.27143I	2.00000 + 0.I
b = 1.223880 - 0.172344I		
u = 0.478866 + 1.010160I		
a = 1.68970 + 0.68133I	4.95913 + 9.62770I	6.08733 - 8.46631I
b = 2.21369 - 0.29376I		
u = 0.478866 - 1.010160I		
a = 1.68970 - 0.68133I	4.95913 - 9.62770I	6.08733 + 8.46631I
b = 2.21369 + 0.29376I		
u = 0.440504 + 0.756700I		
a = 0.42706 + 3.10910I	5.87672 - 5.84564I	8.04796 + 0.32252I
b = 1.68779 + 1.80547I		
u = 0.440504 - 0.756700I		
a = 0.42706 - 3.10910I	5.87672 + 5.84564I	8.04796 - 0.32252I
b = 1.68779 - 1.80547I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.845953 + 0.224057I		
a = -0.454033 + 0.049443I	2.19829 + 1.14973I	-0.20732 - 4.05965I
b = -0.169032 + 0.370411I		
u = -0.845953 - 0.224057I		
a = -0.454033 - 0.049443I	2.19829 - 1.14973I	-0.20732 + 4.05965I
b = -0.169032 - 0.370411I		
u = -0.440600 + 0.735465I		
a = -0.529757 + 1.304030I	1.07544 + 1.47462I	-0.30724 + 1.60278I
b = -1.48003 + 1.46229I		
u = -0.440600 - 0.735465I		
a = -0.529757 - 1.304030I	1.07544 - 1.47462I	-0.30724 - 1.60278I
b = -1.48003 - 1.46229I		
u = -0.543398 + 1.017760I		
a = -0.95120 + 1.12608I	-0.05728 - 5.50225I	-1.65148 + 5.32403I
b = -0.949869 + 0.729254I		
u = -0.543398 - 1.017760I		
a = -0.95120 - 1.12608I	-0.05728 + 5.50225I	-1.65148 - 5.32403I
b = -0.949869 - 0.729254I		
u = 0.717953 + 0.916298I		
a = -0.197064 - 0.026048I	6.62598 - 3.63352I	7.04034 + 2.52491I
b = 0.556317 + 0.184555I		
u = 0.717953 - 0.916298I		
a = -0.197064 + 0.026048I	6.62598 + 3.63352I	7.04034 - 2.52491I
b = 0.556317 - 0.184555I		
u = -0.355593 + 1.109490I		
a = -1.017310 - 0.245805I	-0.61067 - 5.04896I	2.00000 + 10.94268I
b = -0.449843 - 0.556723I		
u = -0.355593 - 1.109490I		
a = -1.017310 + 0.245805I	-0.61067 + 5.04896I	2.00000 - 10.94268I
b = -0.449843 + 0.556723I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.109847 + 0.826480I		
a = 1.50107 + 0.47228I	1.34212 + 3.21376I	1.02834 - 3.60175I
b = 0.099884 + 1.264980I		
u = -0.109847 - 0.826480I		
a = 1.50107 - 0.47228I	1.34212 - 3.21376I	1.02834 + 3.60175I
b = 0.099884 - 1.264980I		
u = 0.446151 + 1.100910I		
a = -1.58149 - 1.26717I	-2.97445 + 3.69917I	-19.3709 + 16.9807I
b = -1.80627 + 0.25124I		
u = 0.446151 - 1.100910I		
a = -1.58149 + 1.26717I	-2.97445 - 3.69917I	-19.3709 - 16.9807I
b = -1.80627 - 0.25124I		
u = -0.027254 + 1.190570I		
a = 0.0165001 + 0.0345603I	1.35889 + 1.93098I	2.00000 - 1.60098I
b = -0.521740 + 0.784309I		
u = -0.027254 - 1.190570I		
a = 0.0165001 - 0.0345603I	1.35889 - 1.93098I	2.00000 + 1.60098I
b = -0.521740 - 0.784309I		
u = -0.687401 + 1.054520I		
a = 0.75226 - 1.69759I	6.09064 - 8.73869I	0
b = 2.10474 - 1.13719I		
u = -0.687401 - 1.054520I		
a = 0.75226 + 1.69759I	6.09064 + 8.73869I	0
b = 2.10474 + 1.13719I		
u = 0.706235 + 1.089890I		
a = -0.64145 - 1.44974I	4.41769 + 10.35310I	0
b = -1.77696 - 1.28827I		
u = 0.706235 - 1.089890I		
a = -0.64145 + 1.44974I	4.41769 - 10.35310I	0
b = -1.77696 + 1.28827I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.003574 + 0.681096I		
a = -0.08290 - 2.14992I	-0.309340 - 0.677076I	2.01058 - 1.89029I
b = -0.99332 - 1.04696I		
u = -0.003574 - 0.681096I		
a = -0.08290 + 2.14992I	-0.309340 + 0.677076I	2.01058 + 1.89029I
b = -0.99332 + 1.04696I		
u = 0.502730		
a = 1.15645	-0.249964	-4.72460
b = -1.30140		
u = -0.16725 + 1.61471I		
a = 0.059053 + 0.140437I	-4.52427 - 2.67831I	0
b = 0.115958 + 0.235806I		
u = -0.16725 - 1.61471I		
a = 0.059053 - 0.140437I	-4.52427 + 2.67831I	0
b = 0.115958 - 0.235806I		
u = 0.172862 + 0.296388I		
a = 0.33291 - 2.81905I	5.07026 - 1.71080I	16.6995 + 2.5936I
b = 0.138218 + 0.737129I		
u = 0.172862 - 0.296388I		
a = 0.33291 + 2.81905I	5.07026 + 1.71080I	16.6995 - 2.5936I
b = 0.138218 - 0.737129I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{47} - 26u^{46} + \dots - 23u + 1)(u^{182} + 77u^{181} + \dots + 8263u + 121)$
c_2	$(u^{47} + 13u^{45} + \dots + 3u - 1)(u^{182} - u^{181} + \dots + 195u - 11)$
<i>c</i> ₃	$(u^{47} - u^{46} + \dots - 4u + 1)(u^{182} + 2u^{181} + \dots - 5309082u - 451273)$
c_4	$(u^{47} - u^{46} + \dots + 3u + 1)(u^{182} + 2u^{181} + \dots + 19u - 1)$
<i>C</i> 5	$(u^{47} - 5u^{46} + \dots + 15u + 1)$ $\cdot (u^{182} + 2u^{181} + \dots - 38159038193725u - 9874199002121)$
<i>C</i> ₆	$(u^{47} + 13u^{45} + \dots + 3u + 1)(u^{182} - u^{181} + \dots + 195u - 11)$
<i>C</i> ₇	$(u^{47} + 2u^{46} + \dots + 2u - 11)$ $\cdot (u^{182} - 3u^{181} + \dots - 16973493258u + 2170070627)$
	$(u^{47} + 22u^{46} + \dots + 22u + 1)$ $\cdot (u^{182} - 13u^{181} + \dots - 32599410u + 3488929)$
<i>c</i> 9	$(u^{47} - 19u^{46} + \dots + 21u - 1)$ $\cdot (u^{182} - 8u^{181} + \dots + 120499307u - 33795031)$
c_{10}	$(u^{47} - 3u^{46} + \dots + 3u - 11)$ $\cdot (u^{182} - 16u^{181} + \dots + 87245097403u - 3309477077)$
c_{11}	$(u^{47} + u^{46} + \dots + 3u - 1)(u^{182} + 2u^{181} + \dots + 19u - 1)$
c_{12}	$(u^{47} + 2u^{46} + \dots + 11u + 1)$ $\cdot (u^{182} + u^{181} + \dots + 38826485u + 8693093)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{47} + 2y^{46} + \dots - 55y - 1)$ $\cdot (y^{182} + 69y^{181} + \dots + 304853435y + 14641)$
c_2, c_6	$(y^{47} + 26y^{46} + \dots - 23y - 1)(y^{182} + 77y^{181} + \dots + 8263y + 121)$
c_3	$(y^{47} + 9y^{46} + \dots - 64y - 1)$ $\cdot (y^{182} + 44y^{181} + \dots - 374808253700y + 203647320529)$
c_4, c_{11}	$(y^{47} + 27y^{46} + \dots + y - 1)(y^{182} + 126y^{181} + \dots - 113y + 1)$
c_5	$(y^{47} - 23y^{46} + \dots + 89y - 1)$ $\cdot (y^{182} - 100y^{181} + \dots - 6.27 \times 10^{27}y + 9.75 \times 10^{25})$
c_7	$(y^{47} - 14y^{46} + \dots + 2732y - 121)$ $\cdot (y^{182} - 83y^{181} + \dots + 7.07 \times 10^{20}y + 4.71 \times 10^{18})$
c_8	$(y^{47} - 16y^{46} + \dots + 30y - 1)$ $\cdot (y^{182} - 65y^{181} + \dots + 5327570686683198y + 12172625567041)$
c_9	$(y^{47} - 19y^{46} + \dots + 41y - 1)$ $\cdot (y^{182} - 60y^{181} + \dots - 84230223266656641y + 1142104120290961)$
c_{10}	$(y^{47} + 7y^{46} + \dots - 2213y - 121)$ $\cdot (y^{182} + 70y^{181} + \dots - 5.83 \times 10^{20}y + 1.10 \times 10^{19})$
c_{12}	$(y^{47} - 12y^{46} + \dots + 71y - 1)$ $\cdot (y^{182} - 57y^{181} + \dots - 3145101509628851y + 75569865906649)$