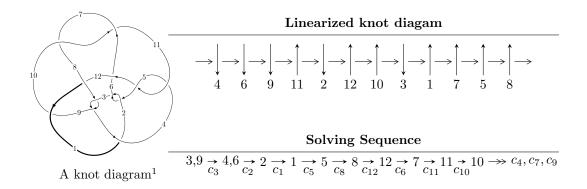
$12a_{0925} (K12a_{0925})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -6.37208 \times 10^{955} u^{174} - 5.29428 \times 10^{954} u^{173} + \dots + 1.52887 \times 10^{955} b + 1.80446 \times 10^{959}, \\ &- 6.40167 \times 10^{959} u^{174} - 5.34264 \times 10^{958} u^{173} + \dots + 4.00718 \times 10^{958} a + 1.81672 \times 10^{963}, \\ &u^{175} + u^{174} + \dots - 2853 u - 2621 \rangle \\ I_2^u &= \langle 3.32259 \times 10^{40} u^{52} - 2.34870 \times 10^{40} u^{51} + \dots + 1.43120 \times 10^{38} b + 4.37472 \times 10^{40}, \\ &- 1.47911 \times 10^{41} u^{52} + 8.39026 \times 10^{40} u^{51} + \dots + 1.43120 \times 10^{38} a - 1.72574 \times 10^{41}, \\ &u^{53} - 14 u^{51} + \dots - 11 u^2 + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 228 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.
$$I_1^u = \langle -6.37 \times 10^{955} u^{174} - 5.29 \times 10^{954} u^{173} + \dots + 1.53 \times 10^{955} b + 1.80 \times 10^{959}, \ -6.40 \times 10^{959} u^{174} - 5.34 \times 10^{958} u^{173} + \dots + 4.01 \times 10^{958} a + 1.82 \times 10^{963}, \ u^{175} + u^{174} + \dots - 2853 u - 2621 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_4 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_6 = \begin{pmatrix} 15.9755u^{174} + 1.33327u^{173} + \cdots - 36.3411u - 45336.5 \\ 4.16783u^{174} + 0.346286u^{173} + \cdots - 35.5749u - 11802.5 \end{pmatrix} \\ a_2 = \begin{pmatrix} -7.11073u^{174} - 0.574352u^{173} + \cdots - 66.0517u + 20079.5 \\ -0.176273u^{174} + 0.265217u^{173} + \cdots + 849.646u - 407.719 \end{pmatrix} \\ a_1 = \begin{pmatrix} -1.19707u^{174} + 0.161818u^{173} + \cdots + 772.531u + 2539.92 \\ 4.37966u^{174} + 0.848427u^{173} + \cdots + 1577.97u - 13977.9 \end{pmatrix} \\ a_5 = \begin{pmatrix} 13.0539u^{174} + 0.606725u^{173} + \cdots - 1662.11u - 35463.6 \\ 9.15087u^{174} + 0.394872u^{173} + \cdots - 1353.36u - 24800.8 \end{pmatrix} \\ a_8 = \begin{pmatrix} u \\ u \end{pmatrix} \\ a_{12} = \begin{pmatrix} -5.51568u^{174} - 0.379165u^{173} + \cdots + 107.438u + 15356.9 \\ 0.0610535u^{174} + 0.307444u^{173} + \cdots + 912.877u - 1160.90 \end{pmatrix} \\ a_7 = \begin{pmatrix} 1.37797u^{174} - 0.870688u^{173} + \cdots - 3364.65u - 674.753 \\ 5.18568u^{174} - 0.184804u^{173} + \cdots - 2096.15u - 12781.4 \end{pmatrix} \\ a_{11} = \begin{pmatrix} -0.476362u^{174} + 0.160489u^{173} + \cdots + 766.812u + 911.061 \\ -6.49332u^{174} - 0.319529u^{173} + \cdots + 879.629u + 17886.6 \end{pmatrix} \\ a_{10} = \begin{pmatrix} -13.6307u^{174} - 1.30945u^{173} + \cdots - 209.392u + 39302.5 \\ -7.00162u^{174} - 0.711508u^{173} + \cdots - 27.9154u + 20160.6 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-32.4777u^{174} 3.37563u^{173} + \cdots 2284.15u + 94315.5$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{175} - 8u^{174} + \dots + 1890868908462u - 280537441299$
c_2, c_5	$u^{175} + 4u^{174} + \dots + 417270u + 63403$
c_3, c_8	$u^{175} + u^{174} + \dots - 2853u - 2621$
c_4, c_{11}	$u^{175} + u^{174} + \dots - 21401u + 1549$
	$u^{175} - 2u^{174} + \dots - 657105u + 475777$
c_{7}, c_{10}	$u^{175} + 6u^{174} + \dots - 343340u - 23572$
c_9	$u^{175} - 6u^{174} + \dots + 4627516764u + 594875704$
c_{12}	$u^{175} + 2u^{174} + \dots - 218568u + 5697$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{175} - 52y^{174} + \dots + 3.27 \times 10^{24}y - 7.87 \times 10^{22}$
c_2, c_5	$y^{175} - 96y^{174} + \dots + 241757138316y - 4019940409$
c_{3}, c_{8}	$y^{175} - 107y^{174} + \dots + 304239221y - 6869641$
c_4, c_{11}	$y^{175} - 87y^{174} + \dots + 251496317y - 2399401$
<i>C</i> ₆	$y^{175} + 18y^{174} + \dots - 12874725123895y - 226363753729$
c_7, c_{10}	$y^{175} + 122y^{174} + \dots - 6061106160y - 555639184$
c_9	$y^{175} + 62y^{174} + \dots - 2.61 \times 10^{19}y - 3.54 \times 10^{17}$
c_{12}	$y^{175} + 62y^{174} + \dots - 12813231636y - 32455809$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.008340 + 0.114977I		
a = 0.06770 + 2.00673I	-0.72811 + 5.24649I	0
b = -0.639902 - 0.509941I		
u = -1.008340 - 0.114977I		
a = 0.06770 - 2.00673I	-0.72811 - 5.24649I	0
b = -0.639902 + 0.509941I		
u = 0.052380 + 0.983705I		
a = -0.271367 + 0.895018I	0.09640 + 8.25979I	0
b = -0.175627 - 1.046830I		
u = 0.052380 - 0.983705I		
a = -0.271367 - 0.895018I	0.09640 - 8.25979I	0
b = -0.175627 + 1.046830I		
u = -0.969775 + 0.092941I		
a = 0.404042 + 1.238470I	0.779150 - 0.881346I	0
b = 0.56097 + 1.30163I		
u = -0.969775 - 0.092941I		
a = 0.404042 - 1.238470I	0.779150 + 0.881346I	0
b = 0.56097 - 1.30163I		
u = 0.894099 + 0.360744I		
a = -0.117949 + 0.659180I	-6.23141 + 0.57035I	0
b = 0.740112 - 0.004916I		
u = 0.894099 - 0.360744I		
a = -0.117949 - 0.659180I	-6.23141 - 0.57035I	0
b = 0.740112 + 0.004916I		
u = -0.731796 + 0.610840I		
a = -0.568517 + 0.583153I	1.57326 - 1.76025I	0
b = 1.120150 + 0.353376I		
u = -0.731796 - 0.610840I		
a = -0.568517 - 0.583153I	1.57326 + 1.76025I	0
b = 1.120150 - 0.353376I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.918709 + 0.237229I		
a = 0.270110 - 0.894702I	2.86322 - 1.32931I	0
b = -0.536386 + 0.661275I		
u = 0.918709 - 0.237229I		
a = 0.270110 + 0.894702I	2.86322 + 1.32931I	0
b = -0.536386 - 0.661275I		
u = 1.055870 + 0.100541I		
a = -0.402174 + 0.029672I	-6.48509 + 0.71958I	0
b = 0.529728 + 0.479846I		
u = 1.055870 - 0.100541I		
a = -0.402174 - 0.029672I	-6.48509 - 0.71958I	0
b = 0.529728 - 0.479846I		
u = -1.058450 + 0.124315I		
a = -2.55497 - 0.49443I	-3.02613 + 1.59757I	0
b = -1.283910 + 0.415138I		
u = -1.058450 - 0.124315I		
a = -2.55497 + 0.49443I	-3.02613 - 1.59757I	0
b = -1.283910 - 0.415138I		
u = -0.923940 + 0.062597I		
a = -1.118240 + 0.104649I	0.99939 + 1.70499I	0
b = -0.819568 + 1.135490I		
u = -0.923940 - 0.062597I		
a = -1.118240 - 0.104649I	0.99939 - 1.70499I	0
b = -0.819568 - 1.135490I		
u = -0.815324 + 0.429136I		
a = -0.19301 - 1.45744I	1.35633 + 5.98085I	0
b = -1.034920 + 0.535439I		
u = -0.815324 - 0.429136I		
a = -0.19301 + 1.45744I	1.35633 - 5.98085I	0
b = -1.034920 - 0.535439I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.912619 + 0.122850I		
a = -0.227881 - 1.307120I	1.44152 - 3.97683I	0
b = -0.102478 - 1.254120I		
u = 0.912619 - 0.122850I		
a = -0.227881 + 1.307120I	1.44152 + 3.97683I	0
b = -0.102478 + 1.254120I		
u = 0.857554 + 0.331513I		
a = 0.75497 + 1.63777I	-1.97267 - 9.14333I	0
b = -1.030800 - 0.444653I		
u = 0.857554 - 0.331513I		
a = 0.75497 - 1.63777I	-1.97267 + 9.14333I	0
b = -1.030800 + 0.444653I		
u = 0.766214 + 0.499618I		
a = -0.91660 - 1.50789I	-1.82975 + 5.58360I	0
b = 1.133460 - 0.201915I		
u = 0.766214 - 0.499618I		
a = -0.91660 + 1.50789I	-1.82975 - 5.58360I	0
b = 1.133460 + 0.201915I		
u = -0.681198 + 0.607884I		
a = 0.341632 + 0.617565I	-1.43546 - 3.18285I	0
b = 0.713431 + 0.601410I		
u = -0.681198 - 0.607884I		
a = 0.341632 - 0.617565I	-1.43546 + 3.18285I	0
b = 0.713431 - 0.601410I		
u = 1.055600 + 0.262250I		
a = -2.41064 + 0.62625I	-6.00895 - 5.26943I	0
b = -1.359230 - 0.365500I		
u = 1.055600 - 0.262250I		
a = -2.41064 - 0.62625I	-6.00895 + 5.26943I	0
b = -1.359230 + 0.365500I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.983587 + 0.477897I		
a = 1.267250 - 0.165255I	-1.49248 - 2.13116I	0
b = 0.727556 + 0.809995I		
u = 0.983587 - 0.477897I		
a = 1.267250 + 0.165255I	-1.49248 + 2.13116I	0
b = 0.727556 - 0.809995I		
u = -0.890066 + 0.167770I		
a = 0.478732 + 0.037537I	-1.47170 + 0.87487I	0
b = 0.565199 - 0.581016I		
u = -0.890066 - 0.167770I		
a = 0.478732 - 0.037537I	-1.47170 - 0.87487I	0
b = 0.565199 + 0.581016I		
u = 0.750069 + 0.798108I		
a = 0.599263 - 0.776735I	0.409841 + 0.584531I	0
b = 0.714467 - 0.072197I		
u = 0.750069 - 0.798108I		
a = 0.599263 + 0.776735I	0.409841 - 0.584531I	0
b = 0.714467 + 0.072197I		
u = 1.110910 + 0.016667I		
a = -2.93249 + 0.41183I	-7.32014 + 1.45894I	0
b = -1.149250 - 0.374540I		
u = 1.110910 - 0.016667I		
a = -2.93249 - 0.41183I	-7.32014 - 1.45894I	0
b = -1.149250 + 0.374540I		
u = -0.885283 + 0.024542I		
a = 4.60948 - 1.59603I	-0.05882 - 4.46982I	0
b = 0.758385 - 0.020744I		
u = -0.885283 - 0.024542I		
a = 4.60948 + 1.59603I	-0.05882 + 4.46982I	0
b = 0.758385 + 0.020744I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.077380 + 0.293356I		
a = 2.45114 + 0.40387I	-3.80384 + 10.36360I	0
b = 1.48414 - 0.56183I		
u = -1.077380 - 0.293356I		
a = 2.45114 - 0.40387I	-3.80384 - 10.36360I	0
b = 1.48414 + 0.56183I		
u = 0.882540		
a = 4.88625	3.90842	0
b = 0.757507		
u = -1.061440 + 0.363688I		
a = 1.55159 + 0.32538I	-1.40636 + 2.81522I	0
b = 0.917976 - 0.612189I		
u = -1.061440 - 0.363688I		
a = 1.55159 - 0.32538I	-1.40636 - 2.81522I	0
b = 0.917976 + 0.612189I		
u = 1.104410 + 0.224190I		
a = 2.09979 - 0.37926I	-1.80068 - 6.55713I	0
b = 1.30053 + 0.77145I		
u = 1.104410 - 0.224190I		
a = 2.09979 + 0.37926I	-1.80068 + 6.55713I	0
b = 1.30053 - 0.77145I		
u = 0.313944 + 0.808747I		
a = 0.103102 + 0.433947I	1.81980 + 0.11582I	0
b = -0.850043 - 0.444944I		
u = 0.313944 - 0.808747I		
a = 0.103102 - 0.433947I	1.81980 - 0.11582I	0
b = -0.850043 + 0.444944I		
u = -1.126140 + 0.168539I		
a = 1.54899 + 1.33006I	-7.60050 + 5.26863I	0
b = 0.986495 - 0.615170I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.126140 - 0.168539I		
a = 1.54899 - 1.33006I	-7.60050 - 5.26863I	0
b = 0.986495 + 0.615170I		
u = 1.101550 + 0.327879I		
a = 0.601592 - 0.264941I	-1.11431 - 4.04608I	0
b = 0.463340 + 0.801709I		
u = 1.101550 - 0.327879I		
a = 0.601592 + 0.264941I	-1.11431 + 4.04608I	0
b = 0.463340 - 0.801709I		
u = 0.294355 + 1.111750I		
a = 0.089913 + 0.361865I	-5.19682 - 3.12832I	0
b = 1.46643 - 0.36244I		
u = 0.294355 - 1.111750I		
a = 0.089913 - 0.361865I	-5.19682 + 3.12832I	0
b = 1.46643 + 0.36244I		
u = -0.555505 + 1.007470I		
a = 0.056272 + 0.654668I	-4.41497 - 0.27045I	0
b = -1.065360 - 0.663216I		
u = -0.555505 - 1.007470I		
a = 0.056272 - 0.654668I	-4.41497 + 0.27045I	0
b = -1.065360 + 0.663216I		
u = -1.050050 + 0.493222I		
a = -0.510811 + 0.751441I	-5.54541 + 6.77031I	0
b = 0.648656 - 0.018944I		
u = -1.050050 - 0.493222I		
a = -0.510811 - 0.751441I	-5.54541 - 6.77031I	0
b = 0.648656 + 0.018944I		
u = 1.061500 + 0.473801I		
a = -0.148639 - 0.686284I	-0.57205 - 4.46548I	0
b = 0.394648 - 0.169968I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
-0.57205 + 4.46548I	0
-2.76466 - 3.57057I	0
-2.76466 + 3.57057I	0
5.30870 - 1.78531I	0
5.30870 + 1.78531I	0
-3.3301 - 14.1176I	0
-3.3301 + 14.1176I	0
-3.62656 + 4.64520I	0
-3.62656 - 4.64520I	0
1.47080 + 1.90539I	0
	-0.57205 + 4.46548I $-2.76466 - 3.57057I$ $-2.76466 + 3.57057I$ $5.30870 - 1.78531I$ $5.30870 + 1.78531I$ $-3.3301 - 14.1176I$ $-3.62656 + 4.64520I$ $-3.62656 - 4.64520I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.764638 - 0.280136I		
a = -0.137922 + 0.343939I	1.47080 - 1.90539I	0
b = -0.161390 + 0.992421I		
u = 0.619257 + 0.514956I		
a = -0.66997 + 1.96532I	-3.97045 - 4.40481I	0
b = -0.934962 - 0.523006I		
u = 0.619257 - 0.514956I		
a = -0.66997 - 1.96532I	-3.97045 + 4.40481I	0
b = -0.934962 + 0.523006I		
u = -0.640063 + 0.469754I		
a = -1.268060 - 0.484721I	-1.34087 + 7.56322I	0
b = -1.026780 + 0.705633I		
u = -0.640063 - 0.469754I		
a = -1.268060 + 0.484721I	-1.34087 - 7.56322I	0
b = -1.026780 - 0.705633I		
u = 0.018313 + 0.788627I		
a = 0.695905 + 0.160230I	-5.42053 - 0.73784I	0
b = 1.312860 + 0.110976I		
u = 0.018313 - 0.788627I		
a = 0.695905 - 0.160230I	-5.42053 + 0.73784I	0
b = 1.312860 - 0.110976I		
u = 0.068963 + 1.210180I		
a = 0.609750 + 0.396868I	-5.77869 + 7.27147I	0
b = 1.159300 - 0.409788I		
u = 0.068963 - 1.210180I		
a = 0.609750 - 0.396868I	-5.77869 - 7.27147I	0
b = 1.159300 + 0.409788I		
u = 1.174220 + 0.406921I		
a = 2.56128 - 0.72573I	-8.17152 - 7.99853I	0
b = 1.227910 + 0.245565I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.174220 - 0.406921I		
a = 2.56128 + 0.72573I	-8.17152 + 7.99853I	0
b = 1.227910 - 0.245565I		
u = -0.245489 + 1.220510I		
a = 0.554382 - 0.267502I	-1.92129 - 1.96501I	0
b = 1.155370 + 0.256181I		
u = -0.245489 - 1.220510I		
a = 0.554382 + 0.267502I	-1.92129 + 1.96501I	0
b = 1.155370 - 0.256181I		
u = -0.619235 + 0.424388I		
a = 0.730260 - 0.027654I	-1.32344 + 1.75688I	0
b = 0.138368 - 0.650286I		
u = -0.619235 - 0.424388I		
a = 0.730260 + 0.027654I	-1.32344 - 1.75688I	0
b = 0.138368 + 0.650286I		
u = -0.499157 + 0.558083I		
a = 1.17487 - 0.96889I	-3.85851 - 2.55091I	0
b = -0.829562 + 0.095388I		
u = -0.499157 - 0.558083I		
a = 1.17487 + 0.96889I	-3.85851 + 2.55091I	0
b = -0.829562 - 0.095388I		
u = -1.226400 + 0.318205I		
a = 2.44179 + 0.60903I	-3.35407 + 7.74672I	0
b = 1.166520 - 0.436983I		
u = -1.226400 - 0.318205I		
a = 2.44179 - 0.60903I	-3.35407 - 7.74672I	0
b = 1.166520 + 0.436983I		
u = -1.117490 + 0.599149I		
a = 1.51665 + 1.46224I	-6.93585 + 0.03498I	0
b = 1.002940 - 0.072372I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.117490 - 0.599149I		
a = 1.51665 - 1.46224I	-6.93585 - 0.03498I	0
b = 1.002940 + 0.072372I		
u = 1.254460 + 0.223040I		
a = 2.65308 - 0.66422I	-6.13100 - 9.36045I	0
b = 1.135600 + 0.530534I		
u = 1.254460 - 0.223040I		
a = 2.65308 + 0.66422I	-6.13100 + 9.36045I	0
b = 1.135600 - 0.530534I		
u = -1.087070 + 0.683942I		
a = 0.272679 + 0.266678I	0.002842 + 1.006490I	0
b = 0.843710 + 0.265451I		
u = -1.087070 - 0.683942I		
a = 0.272679 - 0.266678I	0.002842 - 1.006490I	0
b = 0.843710 - 0.265451I		
u = 0.661990 + 0.268164I		
a = -0.688289 - 0.333784I	0.56526 - 5.07278I	0
b = -0.839786 - 0.696152I		
u = 0.661990 - 0.268164I		
a = -0.688289 + 0.333784I	0.56526 + 5.07278I	0
b = -0.839786 + 0.696152I		
u = 0.335407 + 1.244040I		
a = -1.266040 - 0.155532I	3.71341 - 3.52873I	0
b = -0.717952 + 0.021782I		
u = 0.335407 - 1.244040I		
a = -1.266040 + 0.155532I	3.71341 + 3.52873I	0
b = -0.717952 - 0.021782I		
u = 1.191900 + 0.500396I		
a = 0.157852 - 0.714867I	-0.98080 - 4.93698I	0
b = 0.636888 - 0.475720I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.191900 - 0.500396I		
a = 0.157852 + 0.714867I	-0.98080 + 4.93698I	0
b = 0.636888 + 0.475720I		
u = -0.638722 + 1.126880I		
a = -0.377501 - 0.675726I	1.67900 + 5.40673I	0
b = -1.081380 + 0.332470I		
u = -0.638722 - 1.126880I		
a = -0.377501 + 0.675726I	1.67900 - 5.40673I	0
b = -1.081380 - 0.332470I		
u = 1.261520 + 0.301281I		
a = 0.579930 + 0.064910I	-1.08964 - 3.91173I	0
b = 0.304684 + 1.160470I		
u = 1.261520 - 0.301281I		
a = 0.579930 - 0.064910I	-1.08964 + 3.91173I	0
b = 0.304684 - 1.160470I		
u = -0.647164 + 0.262298I		
a = 0.33760 + 1.75787I	-5.12039 + 4.35071I	0
b = -0.739546 + 0.278175I		
u = -0.647164 - 0.262298I		
a = 0.33760 - 1.75787I	-5.12039 - 4.35071I	0
b = -0.739546 - 0.278175I		
u = -1.231500 + 0.453162I		
a = -2.08904 - 0.92007I	-9.09985 + 5.23913I	0
b = -1.49855 + 0.17664I		
u = -1.231500 - 0.453162I		
a = -2.08904 + 0.92007I	-9.09985 - 5.23913I	0
b = -1.49855 - 0.17664I		
u = 0.221710 + 1.307120I		
a = -0.285676 - 0.469695I	1.42759 + 7.54557I	0
b = -1.28686 + 0.60598I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.221710 - 1.307120I		
a = -0.285676 + 0.469695I	1.42759 - 7.54557I	0
b = -1.28686 - 0.60598I		
u = 1.230740 + 0.511440I		
a = -1.74491 + 1.14224I	-8.76679 - 3.97759I	0
b = -1.368610 - 0.170839I		
u = 1.230740 - 0.511440I		
a = -1.74491 - 1.14224I	-8.76679 + 3.97759I	0
b = -1.368610 + 0.170839I		
u = 1.161600 + 0.654083I		
a = -0.249946 - 0.007995I	-5.49836 - 0.49981I	0
b = 0.796581 - 0.849957I		
u = 1.161600 - 0.654083I		
a = -0.249946 + 0.007995I	-5.49836 + 0.49981I	0
b = 0.796581 + 0.849957I		
u = -1.254300 + 0.476731I		
a = 0.305065 - 0.131370I	-6.25848 + 8.38918I	0
b = -0.036167 - 0.925380I		
u = -1.254300 - 0.476731I		
a = 0.305065 + 0.131370I	-6.25848 - 8.38918I	0
b = -0.036167 + 0.925380I		
u = 1.332760 + 0.251941I		
a = 1.53065 - 0.17190I	-10.53900 - 3.28777I	0
b = 1.36195 - 0.43879I		
u = 1.332760 - 0.251941I		
a = 1.53065 + 0.17190I	-10.53900 + 3.28777I	0
b = 1.36195 + 0.43879I		
u = 0.276801 + 0.570508I		
a = 0.286998 + 0.049882I	0.37927 - 1.97711I	0
b = -0.444883 + 0.822005I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.276801 - 0.570508I		
a = 0.286998 - 0.049882I	0.37927 + 1.97711I	0
b = -0.444883 - 0.822005I		
u = 0.375201 + 0.492490I		
a = 0.744863 - 0.250786I	1.114590 + 0.401874I	0
b = -0.166968 + 0.139307I		
u = 0.375201 - 0.492490I		
a = 0.744863 + 0.250786I	1.114590 - 0.401874I	0
b = -0.166968 - 0.139307I		
u = 0.085429 + 0.591958I		
a = -1.91604 + 1.08934I	3.00195 - 4.31106I	0
b = -0.442090 - 0.675980I		
u = 0.085429 - 0.591958I		
a = -1.91604 - 1.08934I	3.00195 + 4.31106I	0
b = -0.442090 + 0.675980I		
u = 1.301550 + 0.522330I		
a = -0.439028 - 0.363167I	-3.7589 - 13.6502I	0
b = 0.282008 - 1.239440I		
u = 1.301550 - 0.522330I		
a = -0.439028 + 0.363167I	-3.7589 + 13.6502I	0
b = 0.282008 + 1.239440I		
u = 0.150731 + 0.572727I		
a = 0.235175 + 0.122498I	1.74023 + 0.39935I	0
b = -0.594135 - 0.567255I		
u = 0.150731 - 0.572727I		
a = 0.235175 - 0.122498I	1.74023 - 0.39935I	0
b = -0.594135 + 0.567255I		
u = 0.330324 + 0.481603I		
a = 0.620211 - 0.426795I	-3.99697 + 2.30639I	0
b = 1.098310 - 0.449362I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.330324 - 0.481603I		
a = 0.620211 + 0.426795I	-3.99697 - 2.30639I	0
b = 1.098310 + 0.449362I		
u = -1.37512 + 0.36567I		
a = -1.61474 - 0.50797I	-10.64380 + 7.96001I	0
b = -1.62668 - 0.20347I		
u = -1.37512 - 0.36567I		
a = -1.61474 + 0.50797I	-10.64380 - 7.96001I	0
b = -1.62668 + 0.20347I		
u = -1.42368 + 0.05365I		
a = -1.92968 - 0.59993I	-9.73211 - 0.72862I	0
b = -1.007090 - 0.305244I		
u = -1.42368 - 0.05365I		
a = -1.92968 + 0.59993I	-9.73211 + 0.72862I	0
b = -1.007090 + 0.305244I		
u = -1.34316 + 0.47875I		
a = 0.540948 + 0.003445I	-4.17992 - 3.09056I	0
b = -0.169189 - 1.158220I		
u = -1.34316 - 0.47875I		
a = 0.540948 - 0.003445I	-4.17992 + 3.09056I	0
b = -0.169189 + 1.158220I		
u = 1.38981 + 0.33380I		
a = -1.74926 + 0.39755I	-7.78454 - 3.02046I	0
b = -1.383630 - 0.033651I		
u = 1.38981 - 0.33380I		
a = -1.74926 - 0.39755I	-7.78454 + 3.02046I	0
b = -1.383630 + 0.033651I		
u = -1.37065 + 0.41141I		
a = 2.08744 + 0.48751I	-1.84180 + 8.35189I	0
b = 0.943955 - 0.351472I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.37065 - 0.41141I		
a = 2.08744 - 0.48751I	-1.84180 - 8.35189I	0
b = 0.943955 + 0.351472I		
u = -0.10147 + 1.43531I		
a = -0.077662 - 1.057210I	5.08012 - 1.04482I	0
b = -0.30045 + 1.43856I		
u = -0.10147 - 1.43531I		
a = -0.077662 + 1.057210I	5.08012 + 1.04482I	0
b = -0.30045 - 1.43856I		
u = -1.34660 + 0.53135I		
a = -0.302884 + 0.299279I	0.59625 + 7.19814I	0
b = 0.440339 + 1.295460I		
u = -1.34660 - 0.53135I		
a = -0.302884 - 0.299279I	0.59625 - 7.19814I	0
b = 0.440339 - 1.295460I		
u = -1.34014 + 0.60969I		
a = 1.65962 + 0.99269I	-7.0959 + 20.3913I	0
b = 1.32556 - 0.68118I		
u = -1.34014 - 0.60969I		
a = 1.65962 - 0.99269I	-7.0959 - 20.3913I	0
b = 1.32556 + 0.68118I		
u = -1.35716 + 0.60958I		
a = -1.55427 - 0.87412I	-5.64483 + 8.45646I	0
b = -1.268760 + 0.442159I		
u = -1.35716 - 0.60958I		
a = -1.55427 + 0.87412I	-5.64483 - 8.45646I	0
b = -1.268760 - 0.442159I		
u = -1.47733 + 0.19605I		
a = 1.403440 + 0.140394I	-5.36633 - 2.05046I	0
b = 1.36593 + 0.44138I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.47733 - 0.19605I		
a = 1.403440 - 0.140394I	-5.36633 + 2.05046I	0
b = 1.36593 - 0.44138I		
u = 1.37551 + 0.58206I		
a = -1.67685 + 0.84959I	-9.9360 - 13.5352I	0
b = -1.262590 - 0.516035I		
u = 1.37551 - 0.58206I		
a = -1.67685 - 0.84959I	-9.9360 + 13.5352I	0
b = -1.262590 + 0.516035I		
u = 1.37676 + 0.58869I		
a = 1.74311 - 0.68706I	-0.07993 - 3.14611I	0
b = 0.914411 + 0.204323I		
u = 1.37676 - 0.58869I		
a = 1.74311 + 0.68706I	-0.07993 + 3.14611I	0
b = 0.914411 - 0.204323I		
u = 1.38162 + 0.58756I		
a = -1.44313 + 0.89154I	-8.81779 - 3.38404I	0
b = -1.50726 - 0.43510I		
u = 1.38162 - 0.58756I		
a = -1.44313 - 0.89154I	-8.81779 + 3.38404I	0
b = -1.50726 + 0.43510I		
u = 1.36377 + 0.63586I		
a = 1.51294 - 0.92796I	-2.3490 - 14.2732I	0
b = 1.30941 + 0.72075I		
u = 1.36377 - 0.63586I		
a = 1.51294 + 0.92796I	-2.3490 + 14.2732I	0
b = 1.30941 - 0.72075I		
u = 1.52541 + 0.05793I		
a = -1.59016 + 0.44216I	-8.89709 + 1.21364I	0
b = -0.878284 + 0.146429I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.52541 - 0.05793I		
a = -1.59016 - 0.44216I	-8.89709 - 1.21364I	0
b = -0.878284 - 0.146429I		
u = -1.32888 + 0.76202I		
a = 1.18883 + 1.04197I	-6.72128 + 7.21119I	0
b = 1.20462 - 0.80755I		
u = -1.32888 - 0.76202I		
a = 1.18883 - 1.04197I	-6.72128 - 7.21119I	0
b = 1.20462 + 0.80755I		
u = -0.463129 + 0.037953I		
a = 0.591795 - 0.376644I	-1.46629 + 0.61331I	-6.68087 + 1.30735I
b = 0.886324 - 0.307856I		
u = -0.463129 - 0.037953I		
a = 0.591795 + 0.376644I	-1.46629 - 0.61331I	-6.68087 - 1.30735I
b = 0.886324 + 0.307856I		
u = -0.039278 + 0.434058I		
a = -2.29975 + 0.71426I	-4.89990 + 4.37822I	-1.92116 - 6.85769I
b = -0.977335 + 0.298452I		
u = -0.039278 - 0.434058I		
a = -2.29975 - 0.71426I	-4.89990 - 4.37822I	-1.92116 + 6.85769I
b = -0.977335 - 0.298452I		
u = 1.52942 + 0.34829I		
a = 1.315230 - 0.277888I	-9.04257 + 8.37334I	0
b = 1.34392 - 0.44415I		
u = 1.52942 - 0.34829I		
a = 1.315230 + 0.277888I	-9.04257 - 8.37334I	0
b = 1.34392 + 0.44415I		
u = -1.54856 + 0.41904I		
a = -1.43565 - 0.23882I	-11.18890 - 1.08010I	0
b = -1.183120 - 0.194524I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.54856 - 0.41904I		
a = -1.43565 + 0.23882I	-11.18890 + 1.08010I	0
b = -1.183120 + 0.194524I		
u = -0.326506 + 0.179382I		
a = -1.70122 - 0.83343I	-1.62999 - 7.81122I	3.69855 + 4.30402I
b = -1.203310 - 0.622332I		
u = -0.326506 - 0.179382I		
a = -1.70122 + 0.83343I	-1.62999 + 7.81122I	3.69855 - 4.30402I
b = -1.203310 + 0.622332I		
u = 0.244239 + 0.209836I		
a = -1.74084 - 0.44589I	0.59753 - 5.00515I	1.10628 + 2.34393I
b = -0.981116 - 0.608112I		
u = 0.244239 - 0.209836I		
a = -1.74084 + 0.44589I	0.59753 + 5.00515I	1.10628 - 2.34393I
b = -0.981116 + 0.608112I		

II.
$$I_2^u = \langle 3.32 \times 10^{40} u^{52} - 2.35 \times 10^{40} u^{51} + \dots + 1.43 \times 10^{38} b + 4.37 \times 10^{40}, -1.48 \times 10^{41} u^{52} + 8.39 \times 10^{40} u^{51} + \dots + 1.43 \times 10^{38} a - 1.73 \times 10^{41}, \ u^{53} - 14 u^{51} + \dots - 11 u^2 + 1 \rangle$$

(i) Arc colorings

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

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} 1033.47u^{52} - 586.239u^{51} + \dots - 2034.70u + 1205.80 \\ -232.154u^{52} + 164.107u^{51} + \dots + 392.787u - 305.668 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 759.826u^{52} - 495.375u^{51} + \dots - 1526.02u + 1012.14 \\ -598.451u^{52} + 397.853u^{51} + \dots + 1082.59u - 726.395 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -215.060u^{52} + 146.327u^{51} + \dots + 316.395u - 209.630 \\ -1114.17u^{52} + 736.678u^{51} + \dots + 2057.47u - 1368.10 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 387.513u^{52} - 216.690u^{51} + \dots - 768.298u + 432.814 \\ 716.532u^{52} - 530.992u^{51} + \dots - 1375.06u + 978.824 \end{pmatrix}$$

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

$$a_{12} = \begin{pmatrix} 248.772u^{52} - 156.582u^{51} + \dots - 582.712u + 380.721 \\ -650.335u^{52} + 433.769u^{51} + \dots + 1158.37u - 777.746 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -546.571u^{52} + 377.064u^{51} + \dots + 1061.69u - 754.703 \\ -351.767u^{52} + 224.351u^{51} + \dots + 754.487u - 536.484 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 52.9636u^{52} - 105.670u^{51} + \dots - 87.6800u + 204.640 \\ 430.934u^{52} - 311.679u^{51} + \dots - 856.757u + 660.094 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -703.420u^{52} + 455.534u^{51} + \dots + 1343.06u - 886.322 \\ -1439.52u^{52} + 949.093u^{51} + \dots + 2690.94u - 1793.54 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$3884.37u^{52} - 2682.08u^{51} + \cdots - 7739.45u + 5487.07$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{53} - 9u^{52} + \dots + 195u - 11$
c_2	$u^{53} + 3u^{52} + \dots + 3u + 1$
c_3	$u^{53} - 14u^{51} + \dots - 11u^2 + 1$
c_4	$u^{53} - 14u^{51} + \dots + 19u^2 - 1$
<i>C</i> ₅	$u^{53} - 3u^{52} + \dots + 3u - 1$
	$u^{53} - u^{52} + \dots + 36u - 1$
	$u^{53} + 7u^{52} + \dots + 32u + 4$
c ₈	$u^{53} - 14u^{51} + \dots + 11u^2 - 1$
<i>c</i> ₉	$u^{53} + u^{52} + \dots - 8u - 1$
c_{10}	$u^{53} - 7u^{52} + \dots + 32u - 4$
c_{11}	$u^{53} - 14u^{51} + \dots - 19u^2 + 1$
c_{12}	$u^{53} - u^{52} + \dots + 7u + 1$
	or .

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{53} - y^{52} + \dots - 40955y - 121$
c_2, c_5	$y^{53} - 25y^{52} + \dots + 41y - 1$
c_3, c_8	$y^{53} - 28y^{52} + \dots + 22y - 1$
c_4, c_{11}	$y^{53} - 28y^{52} + \dots + 38y - 1$
<i>C</i> ₆	$y^{53} + 9y^{52} + \dots + 274y - 1$
c_7, c_{10}	$y^{53} + 37y^{52} + \dots - 368y - 16$
<i>c</i> ₉	$y^{53} + 13y^{52} + \dots - 34y - 1$
c_{12}	$y^{53} + 33y^{52} + \dots - 59y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.752844 + 0.713687I		
a = 0.198059 - 0.480468I	0.09340 + 1.65159I	0
b = 0.914130 - 0.339042I		
u = 0.752844 - 0.713687I		
a = 0.198059 + 0.480468I	0.09340 - 1.65159I	0
b = 0.914130 + 0.339042I		
u = 0.299078 + 1.026960I		
a = -0.393358 + 0.613280I	1.34681 - 6.32629I	0
b = -1.140540 - 0.485752I		
u = 0.299078 - 1.026960I		
a = -0.393358 - 0.613280I	1.34681 + 6.32629I	0
b = -1.140540 + 0.485752I		
u = -1.059390 + 0.320455I		
a = 1.290580 - 0.016665I	0.12206 + 2.81902I	0
b = 0.727852 - 1.003420I		
u = -1.059390 - 0.320455I		
a = 1.290580 + 0.016665I	0.12206 - 2.81902I	0
b = 0.727852 + 1.003420I		
u = 0.819880 + 0.298094I		
a = -0.722650 + 0.495336I	0.27515 - 5.80106I	0. + 9.09280I
b = -0.947182 - 0.712365I		
u = 0.819880 - 0.298094I		
a = -0.722650 - 0.495336I	0.27515 + 5.80106I	0 9.09280I
b = -0.947182 + 0.712365I		
u = -1.030080 + 0.471732I		
a = 0.415358 - 0.419386I	-5.40111 + 7.24256I	0
b = -0.624176 + 0.253691I		
u = -1.030080 - 0.471732I		
a = 0.415358 + 0.419386I	-5.40111 - 7.24256I	0
b = -0.624176 - 0.253691I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.095380 + 0.356719I		
a = -0.223666 - 0.310574I	0.17444 - 5.06362I	0
b = -0.151815 - 0.857240I		
u = 1.095380 - 0.356719I		
a = -0.223666 + 0.310574I	0.17444 + 5.06362I	0
b = -0.151815 + 0.857240I		
u = -0.260655 + 0.769473I		
a = 0.298108 - 0.749014I	-5.11094 + 2.19227I	-1.08190 - 2.25516I
b = 1.188530 + 0.204645I		
u = -0.260655 - 0.769473I		
a = 0.298108 + 0.749014I	-5.11094 - 2.19227I	-1.08190 + 2.25516I
b = 1.188530 - 0.204645I		
u = -0.629209 + 0.510184I		
a = -0.773759 - 0.759289I	-5.17858 + 2.02235I	-2.59548 - 3.49504I
b = 1.004930 + 0.404428I		
u = -0.629209 - 0.510184I		
a = -0.773759 + 0.759289I	-5.17858 - 2.02235I	-2.59548 + 3.49504I
b = 1.004930 - 0.404428I		
u = -0.797683 + 0.111339I		
a = -0.466604 - 0.948576I	1.51765 - 0.97300I	9.68105 - 1.37819I
b = -0.639151 - 1.191020I		
u = -0.797683 - 0.111339I		
a = -0.466604 + 0.948576I	1.51765 + 0.97300I	9.68105 + 1.37819I
b = -0.639151 + 1.191020I		
u = 0.794471 + 0.121913I		
a = 0.563563 - 1.291760I	1.70258 + 3.06326I	5.81290 - 2.73140I
b = 0.251719 - 1.118650I		
u = 0.794471 - 0.121913I		
a = 0.563563 + 1.291760I	1.70258 - 3.06326I	5.81290 + 2.73140I
b = 0.251719 + 1.118650I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.991191 + 0.675691I		
a = 0.424392 - 0.523521I	-4.71573 + 1.55508I	0
b = -0.708148 + 0.720515I		
u = 0.991191 - 0.675691I		
a = 0.424392 + 0.523521I	-4.71573 - 1.55508I	0
b = -0.708148 - 0.720515I		
u = 1.165290 + 0.336388I		
a = 0.71543 - 1.76538I	-1.59579 - 6.35701I	0
b = 0.571523 - 0.095423I		
u = 1.165290 - 0.336388I		
a = 0.71543 + 1.76538I	-1.59579 + 6.35701I	0
b = 0.571523 + 0.095423I		
u = -0.411876 + 1.152010I		
a = -1.174370 + 0.130403I	3.91392 + 3.35036I	0
b = -0.633482 - 0.149689I		
u = -0.411876 - 1.152010I		
a = -1.174370 - 0.130403I	3.91392 - 3.35036I	0
b = -0.633482 + 0.149689I		
u = 1.141410 + 0.462340I		
a = 1.91918 - 1.28362I	-5.49466 - 6.54899I	0
b = 1.104120 + 0.578790I		
u = 1.141410 - 0.462340I		
a = 1.91918 + 1.28362I	-5.49466 + 6.54899I	0
b = 1.104120 - 0.578790I		
u = -1.214970 + 0.215579I		
a = 2.50327 + 0.14853I	-4.78145 + 8.92871I	0
b = 1.252620 - 0.440926I		
u = -1.214970 - 0.215579I		
a = 2.50327 - 0.14853I	-4.78145 - 8.92871I	0
b = 1.252620 + 0.440926I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.726895 + 0.011194I		
a = -0.92003 - 1.45073I	-2.47355 + 8.00979I	-5.29973 - 6.12277I
b = -1.173500 + 0.560834I		
u = -0.726895 - 0.011194I		
a = -0.92003 + 1.45073I	-2.47355 - 8.00979I	-5.29973 + 6.12277I
b = -1.173500 - 0.560834I		
u = -0.525289 + 0.501536I		
a = -1.03635 + 1.25446I	-3.87787 - 3.22018I	0. + 5.52484I
b = 0.795025 + 0.150056I		
u = -0.525289 - 0.501536I		
a = -1.03635 - 1.25446I	-3.87787 + 3.22018I	0 5.52484I
b = 0.795025 - 0.150056I		
u = 0.708618 + 0.119698I		
a = 3.70903 + 1.70788I	0.50284 + 4.33535I	8.51434 - 0.68763I
b = -0.522684 - 0.189476I		
u = 0.708618 - 0.119698I		
a = 3.70903 - 1.70788I	0.50284 - 4.33535I	8.51434 + 0.68763I
b = -0.522684 + 0.189476I		
u = -1.175600 + 0.528767I		
a = 1.050890 + 0.713469I	0.83195 + 2.49544I	0
b = 0.529417 - 0.234138I		
u = -1.175600 - 0.528767I		
a = 1.050890 - 0.713469I	0.83195 - 2.49544I	0
b = 0.529417 + 0.234138I		
u = 1.224470 + 0.408994I		
a = -2.12820 + 0.72335I	-9.22566 - 6.14828I	0
b = -1.45549 - 0.05041I		
u = 1.224470 - 0.408994I		
a = -2.12820 - 0.72335I	-9.22566 + 6.14828I	0
b = -1.45549 + 0.05041I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.658241		
a = 4.15037	4.44579	13.6430
b = -0.417329		
u = 0.028280 + 1.387320I		
a = -0.052279 + 1.089990I	5.12796 + 0.95282I	0
b = -0.24874 - 1.39671I		
u = 0.028280 - 1.387320I		
a = -0.052279 - 1.089990I	5.12796 - 0.95282I	0
b = -0.24874 + 1.39671I		
u = -1.293790 + 0.538796I		
a = -1.61599 - 1.03387I	-8.18982 + 3.34786I	0
b = -1.49779 + 0.33300I		
u = -1.293790 - 0.538796I		
a = -1.61599 + 1.03387I	-8.18982 - 3.34786I	0
b = -1.49779 - 0.33300I		
u = 0.515235 + 0.205408I		
a = 1.39548 - 2.24020I	-4.99057 - 3.63097I	-5.49740 + 2.27793I
b = 1.041340 + 0.290147I		
u = 0.515235 - 0.205408I		
a = 1.39548 + 2.24020I	-4.99057 + 3.63097I	-5.49740 - 2.27793I
b = 1.041340 - 0.290147I		
u = -1.46902 + 0.06627I		
a = -2.01781 + 0.22433I	-9.29019 + 0.18307I	0
b = -0.962652 + 0.218339I		
u = -1.46902 - 0.06627I		
a = -2.01781 - 0.22433I	-9.29019 - 0.18307I	0
b = -0.962652 - 0.218339I		
u = 1.46774 + 0.12916I		
a = -1.46035 + 0.55805I	-9.27640 + 1.59820I	0
b = -0.958796 + 0.218988I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.46774 - 0.12916I		
a = -1.46035 - 0.55805I	-9.27640 - 1.59820I	0
b = -0.958796 - 0.218988I		
u = -0.080303 + 0.512048I		
a = 0.426879 + 1.243660I	-0.736838 + 0.952251I	3.21681 - 1.98889I
b = 0.991593 - 0.288651I		
u = -0.080303 - 0.512048I		
a = 0.426879 - 1.243660I	-0.736838 - 0.952251I	3.21681 + 1.98889I
b = 0.991593 + 0.288651I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{53} - 9u^{52} + \dots + 195u - 11)$ $\cdot (u^{175} - 8u^{174} + \dots + 1890868908462u - 280537441299)$
c_2	$ (u^{53} + 3u^{52} + \dots + 3u + 1)(u^{175} + 4u^{174} + \dots + 417270u + 63403) $
c_3	$(u^{53} - 14u^{51} + \dots - 11u^2 + 1)(u^{175} + u^{174} + \dots - 2853u - 2621)$
c_4	$(u^{53} - 14u^{51} + \dots + 19u^2 - 1)(u^{175} + u^{174} + \dots - 21401u + 1549)$
c_5	$(u^{53} - 3u^{52} + \dots + 3u - 1)(u^{175} + 4u^{174} + \dots + 417270u + 63403)$
c_6	$(u^{53} - u^{52} + \dots + 36u - 1)(u^{175} - 2u^{174} + \dots - 657105u + 475777)$
c_7	$(u^{53} + 7u^{52} + \dots + 32u + 4)(u^{175} + 6u^{174} + \dots - 343340u - 23572)$
c_8	$(u^{53} - 14u^{51} + \dots + 11u^2 - 1)(u^{175} + u^{174} + \dots - 2853u - 2621)$
c_9	$(u^{53} + u^{52} + \dots - 8u - 1)$ $\cdot (u^{175} - 6u^{174} + \dots + 4627516764u + 594875704)$
c_{10}	$(u^{53} - 7u^{52} + \dots + 32u - 4)(u^{175} + 6u^{174} + \dots - 343340u - 23572)$
c_{11}	$(u^{53} - 14u^{51} + \dots - 19u^2 + 1)(u^{175} + u^{174} + \dots - 21401u + 1549)$
c_{12}	$(u^{53} - u^{52} + \dots + 7u + 1)(u^{175} + 2u^{174} + \dots - 218568u + 5697)$ 34

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{53} - y^{52} + \dots - 40955y - 121)$ $\cdot (y^{175} - 52y^{174} + \dots + 3.27 \times 10^{24}y - 7.87 \times 10^{22})$
c_2, c_5	$(y^{53} - 25y^{52} + \dots + 41y - 1)$ $\cdot (y^{175} - 96y^{174} + \dots + 241757138316y - 4019940409)$
c_3, c_8	$(y^{53} - 28y^{52} + \dots + 22y - 1)$ $\cdot (y^{175} - 107y^{174} + \dots + 304239221y - 6869641)$
c_4,c_{11}	$(y^{53} - 28y^{52} + \dots + 38y - 1)$ $\cdot (y^{175} - 87y^{174} + \dots + 251496317y - 2399401)$
c_6	$(y^{53} + 9y^{52} + \dots + 274y - 1)$ $\cdot (y^{175} + 18y^{174} + \dots - 12874725123895y - 226363753729)$
c_7,c_{10}	$(y^{53} + 37y^{52} + \dots - 368y - 16)$ $\cdot (y^{175} + 122y^{174} + \dots - 6061106160y - 555639184)$
c_9	$(y^{53} + 13y^{52} + \dots - 34y - 1)$ $\cdot (y^{175} + 62y^{174} + \dots - 2.61 \times 10^{19}y - 3.54 \times 10^{17})$
c_{12}	$(y^{53} + 33y^{52} + \dots - 59y - 1)$ $\cdot (y^{175} + 62y^{174} + \dots - 12813231636y - 32455809)$