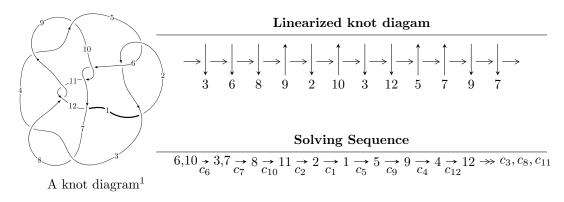
$12n_{0376} (K12n_{0376})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.29866 \times 10^{170} u^{65} - 1.30524 \times 10^{169} u^{64} + \dots + 2.37368 \times 10^{172} b + 1.61064 \times 10^{172}, \\ &- 1.42092 \times 10^{172} u^{65} - 6.96969 \times 10^{171} u^{64} + \dots + 1.40047 \times 10^{174} a - 5.29249 \times 10^{174}, \\ &u^{66} - u^{65} + \dots - 283u - 59 \rangle \\ I_2^u &= \langle -547107839 u^{20} + 650340830 u^{19} + \dots + 16127515b + 671904942, \\ &1292670203 u^{20} - 1531668600 u^{19} + \dots + 16127515a - 1597251904, \ u^{21} - 2u^{20} + \dots - 2u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 87 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.
$$I_1^u = \langle -1.30 \times 10^{170} u^{65} - 1.31 \times 10^{169} u^{64} + \dots + 2.37 \times 10^{172} b + 1.61 \times 10^{172}, -1.42 \times 10^{172} u^{65} - 6.97 \times 10^{171} u^{64} + \dots + 1.40 \times 10^{174} a - 5.29 \times 10^{174}, \ u^{66} - u^{65} + \dots - 283 u - 59 \rangle$$

(i) Arc colorings

$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ 0 \\ 0.00547109u^{65} + 0.00497667u^{64} + \cdots - 6.90436u + 3.77907 \\ 0.00547109u^{65} + 0.000549881u^{64} + \cdots + 0.213003u - 0.678540 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} -0.0371999u^{65} + 0.000132037u^{64} + \cdots - 10.9635u - 4.32444 \\ 0.00558096u^{65} - 0.00149963u^{64} + \cdots + 2.52802u + 0.980850 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.0156171u^{65} + 0.00552655u^{64} + \cdots - 6.69135u + 3.10053 \\ 0.00547109u^{65} + 0.000549881u^{64} + \cdots + 0.213003u - 0.678540 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.0130843u^{65} - 0.00173031u^{64} + \cdots + 1.28588u + 1.21472 \\ -0.00482668u^{65} - 0.00301544u^{64} + \cdots + 1.23112u - 0.215116 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.00412372u^{65} + 0.0123233u^{64} + \cdots + 10.8977u + 2.49609 \\ -0.0176584u^{65} + 0.00297306u^{64} + \cdots + 2.79443u + 2.86901 \\ -0.00121735u^{65} + 0.00297306u^{64} + \cdots + 2.79443u + 2.86901 \\ -0.00121735u^{65} + 0.00297306u^{64} + \cdots + 2.79443u + 2.86901 \\ -0.00312738u^{65} + 0.002977047u^{64} + \cdots - 35.1307u - 2.94708 \\ -0.0312738u^{65} + 0.0029774u^{64} + \cdots - 8.36009u - 1.96671 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.0148679u^{65} - 0.00641855u^{64} + \cdots + 6.50217u + 1.66949 \\ -0.000909781u^{65} - 0.00295631u^{64} + \cdots + 1.94792u - 0.0437386 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.0549937u^{65} + 0.0239803u^{64} + \cdots 1.32112u 6.19761$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{66} + 38u^{65} + \dots - 20u + 1$
c_2, c_5	$u^{66} + 2u^{65} + \dots + 10u^2 + 1$
c_3, c_7	$u^{66} - u^{65} + \dots - 599u - 59$
c_4, c_9	$u^{66} + u^{65} + \dots + 1920u - 1088$
c_6, c_{10}	$u^{66} - u^{65} + \dots - 283u - 59$
c_8, c_{11}	$u^{66} - 2u^{65} + \dots - 13u + 1$
c_{12}	$u^{66} + 2u^{65} + \dots + 2893677u + 899893$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing		
c_1	$y^{66} - 6y^{65} + \dots + 88y + 1$		
c_2, c_5	$y^{66} - 38y^{65} + \dots + 20y + 1$		
c_3, c_7	$y^{66} - 71y^{65} + \dots - 683301y + 3481$		
c_4, c_9	$y^{66} - 27y^{65} + \dots - 23148544y + 1183744$		
c_6,c_{10}	$y^{66} - 29y^{65} + \dots - 212367y + 3481$		
c_8, c_{11}	$y^{66} + 18y^{65} + \dots - 11y + 1$		
c_{12}	$y^{66} - 78y^{65} + \dots - 13342381349441y + 809807411449$		

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.009630 + 0.086875I		
a = -0.865155 + 0.695569I	6.63058 + 2.08531I	4.22354 - 2.28056I
b = 0.646730 - 0.858274I		
u = -1.009630 - 0.086875I		
a = -0.865155 - 0.695569I	6.63058 - 2.08531I	4.22354 + 2.28056I
b = 0.646730 + 0.858274I		
u = -0.630698 + 0.819545I		
a = -1.08564 + 1.29025I	-5.32397 - 3.61939I	-3.35802 + 3.00391I
b = -0.145705 - 0.660230I		
u = -0.630698 - 0.819545I		
a = -1.08564 - 1.29025I	-5.32397 + 3.61939I	-3.35802 - 3.00391I
b = -0.145705 + 0.660230I		
u = 0.855944 + 0.373732I		
a = 0.776245 + 1.037920I	3.16003 - 1.29810I	-3.61685 - 1.27981I
b = -0.979060 - 0.922126I		
u = 0.855944 - 0.373732I		
a = 0.776245 - 1.037920I	3.16003 + 1.29810I	-3.61685 + 1.27981I
b = -0.979060 + 0.922126I		
u = 0.919240 + 0.154057I		
a = -0.06475 - 2.48944I	-0.086654 + 0.709749I	14.6199 + 25.0798I
b = -0.959746 + 0.202331I		
u = 0.919240 - 0.154057I		
a = -0.06475 + 2.48944I	-0.086654 - 0.709749I	14.6199 - 25.0798I
b = -0.959746 - 0.202331I		
u = 0.916029 + 0.574839I		
a = 0.02130 - 1.84018I	3.26731 + 5.19167I	-4.00000 - 5.91453I
b = -0.915687 + 0.841121I		
u = 0.916029 - 0.574839I		
a = 0.02130 + 1.84018I	3.26731 - 5.19167I	-4.00000 + 5.91453I
b = -0.915687 - 0.841121I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.173418 + 1.076000I		
a = 0.606519 + 0.088557I	-2.26147 + 3.75022I	-5.56446 - 6.85194I
b = 0.974893 - 0.350221I		
u = -0.173418 - 1.076000I		
a = 0.606519 - 0.088557I	-2.26147 - 3.75022I	-5.56446 + 6.85194I
b = 0.974893 + 0.350221I		
u = -0.519698 + 0.732621I		
a = -0.109977 + 0.297576I	-10.75900 + 2.41313I	-9.03127 + 1.73650I
b = 1.47718 - 0.21621I		
u = -0.519698 - 0.732621I		
a = -0.109977 - 0.297576I	-10.75900 - 2.41313I	-9.03127 - 1.73650I
b = 1.47718 + 0.21621I		
u = -0.749346 + 0.349951I		
a = 0.55197 - 1.77976I	5.42275 - 4.01479I	2.47646 + 2.55070I
b = 1.059490 + 0.777077I		
u = -0.749346 - 0.349951I		
a = 0.55197 + 1.77976I	5.42275 + 4.01479I	2.47646 - 2.55070I
b = 1.059490 - 0.777077I		
u = 1.067390 + 0.520714I		
a = -0.98150 + 1.66983I	-8.03045 + 0.12830I	0
b = 1.164360 - 0.472130I		
u = 1.067390 - 0.520714I		
a = -0.98150 - 1.66983I	-8.03045 - 0.12830I	0
b = 1.164360 + 0.472130I		
u = -0.969229 + 0.691515I		
a = 0.445965 - 1.042750I	-4.37518 - 1.96161I	0
b = -0.375558 + 1.052890I		
u = -0.969229 - 0.691515I		
a = 0.445965 + 1.042750I	-4.37518 + 1.96161I	0
b = -0.375558 - 1.052890I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.702254 + 0.396363I		
a = -0.370907 - 0.419474I	-9.41079 + 3.73475I	-1.97764 - 7.57060I
b = 1.64825 + 0.27071I		
u = 0.702254 - 0.396363I		
a = -0.370907 + 0.419474I	-9.41079 - 3.73475I	-1.97764 + 7.57060I
b = 1.64825 - 0.27071I		
u = 0.189571 + 0.774061I		
a = -2.16201 - 0.76177I	-5.12953 - 3.97226I	-2.53620 + 0.67549I
b = -0.048717 + 0.448000I		
u = 0.189571 - 0.774061I		
a = -2.16201 + 0.76177I	-5.12953 + 3.97226I	-2.53620 - 0.67549I
b = -0.048717 - 0.448000I		
u = -1.199090 + 0.103811I		
a = 0.026151 + 0.873772I	0.701365 + 0.560290I	0
b = -1.145820 - 0.448707I		
u = -1.199090 - 0.103811I		
a = 0.026151 - 0.873772I	0.701365 - 0.560290I	0
b = -1.145820 + 0.448707I		
u = -0.855896 + 0.851844I		
a = -0.377073 + 0.226573I	1.14814 - 4.23169I	0
b = -1.193960 - 0.293229I		
u = -0.855896 - 0.851844I		
a = -0.377073 - 0.226573I	1.14814 + 4.23169I	0
b = -1.193960 + 0.293229I		
u = -0.588541 + 0.473255I		
a = 0.03657 + 2.05711I	-1.84865 - 1.55160I	-9.86951 + 3.77741I
b = -0.918831 - 0.419709I		
u = -0.588541 - 0.473255I		
a = 0.03657 - 2.05711I	-1.84865 + 1.55160I	-9.86951 - 3.77741I
b = -0.918831 + 0.419709I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.583231 + 1.105720I		
a = 0.365461 + 0.166066I	-1.25973 + 1.60946I	0
b = 0.875973 + 0.156748I		
u = 0.583231 - 1.105720I		
a = 0.365461 - 0.166066I	-1.25973 - 1.60946I	0
b = 0.875973 - 0.156748I		
u = 1.26247		
a = 1.73937	0.936733	0
b = -0.819691		
u = 0.678975 + 0.254457I		
a = -1.38925 - 0.87609I	-0.962746 + 1.013270I	-8.93256 + 2.66135I
b = -1.140560 + 0.239727I		
u = 0.678975 - 0.254457I		
a = -1.38925 + 0.87609I	-0.962746 - 1.013270I	-8.93256 - 2.66135I
b = -1.140560 - 0.239727I		
u = 1.198670 + 0.480794I		
a = -0.123627 - 0.483725I	3.38567 + 1.03176I	0
b = 0.438626 + 0.674148I		
u = 1.198670 - 0.480794I		
a = -0.123627 + 0.483725I	3.38567 - 1.03176I	0
b = 0.438626 - 0.674148I		
u = -1.140890 + 0.605827I		
a = -0.62705 - 1.69841I	-8.77795 - 7.59235I	0
b = 1.184480 + 0.438695I		
u = -1.140890 - 0.605827I		
a = -0.62705 + 1.69841I	-8.77795 + 7.59235I	0
b = 1.184480 - 0.438695I		
u = 1.147170 + 0.619204I		
a = 0.319998 + 1.132160I	-2.68437 + 9.27943I	0
b = -0.308780 - 1.182400I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
-2.68437 - 9.27943I	0
3.28651 + 0.70632I	0
3.28651 - 0.70632I	0
4.37101 - 4.54876I	0
4.37101 + 4.54876I	0
-8.28883 + 1.02130I	0
-8.28883 - 1.02130I	0
1.20353 - 9.50394I	0
1.20353 + 9.50394I	0
1.55388 + 5.84749I	0
	-2.68437 - 9.27943I $3.28651 + 0.70632I$ $3.28651 - 0.70632I$ $4.37101 - 4.54876I$ $4.37101 + 4.54876I$ $-8.28883 + 1.02130I$ $-8.28883 - 1.02130I$ $1.20353 - 9.50394I$ $1.20353 + 9.50394I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.98914 - 1.01218I		
a = 0.405389 - 0.898557I	1.55388 - 5.84749I	0
b = 1.065930 + 0.564917I		
u = -1.14794 + 0.86562I		
a = -0.01851 + 1.44202I	-7.02539 - 8.25526I	0
b = -1.23555 - 0.69019I		
u = -1.14794 - 0.86562I		
a = -0.01851 - 1.44202I	-7.02539 + 8.25526I	0
b = -1.23555 + 0.69019I		
u = 0.137966 + 0.528220I		
a = 0.796178 - 0.216051I	-0.101260 + 1.177890I	-1.60509 - 5.48121I
b = -0.031272 + 0.313358I		
u = 0.137966 - 0.528220I		
a = 0.796178 + 0.216051I	-0.101260 - 1.177890I	-1.60509 + 5.48121I
b = -0.031272 - 0.313358I		
u = 0.020560 + 0.528328I		
a = -4.29255 - 0.39915I	-5.14008 - 3.94973I	0.643204 - 0.090602I
b = 0.176919 + 0.209119I		
u = 0.020560 - 0.528328I		
a = -4.29255 + 0.39915I	-5.14008 + 3.94973I	0.643204 + 0.090602I
b = 0.176919 - 0.209119I		
u = 1.27921 + 0.73272I		
a = 0.076111 + 1.032910I	1.06224 + 5.14116I	0
b = 1.118870 - 0.498354I		
u = 1.27921 - 0.73272I		
a = 0.076111 - 1.032910I	1.06224 - 5.14116I	0
b = 1.118870 + 0.498354I		
u = 0.64925 + 1.38410I		
a = 0.118590 + 0.092801I	-8.02803 - 8.05910I	0
b = -1.156150 - 0.470421I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.64925 - 1.38410I		
a = 0.118590 - 0.092801I	-8.02803 + 8.05910I	0
b = -1.156150 + 0.470421I		
u = 1.28691 + 0.85432I		
a = 0.034457 - 1.326560I	-5.7819 + 15.8817I	0
b = -1.29162 + 0.68757I		
u = 1.28691 - 0.85432I		
a = 0.034457 + 1.326560I	-5.7819 - 15.8817I	0
b = -1.29162 - 0.68757I		
u = -1.63204 + 0.55209I		
a = 0.385181 + 0.448101I	3.55115 - 2.82787I	0
b = -0.729629 + 0.000860I		
u = -1.63204 - 0.55209I		
a = 0.385181 - 0.448101I	3.55115 + 2.82787I	0
b = -0.729629 - 0.000860I		
u = -0.131285		
a = 4.53665	-1.37349	-6.68870
b = -0.799964		

$$II. \\ I_2^u = \langle -5.47 \times 10^8 u^{20} + 6.50 \times 10^8 u^{19} + \dots + 1.61 \times 10^7 b + 6.72 \times 10^8, \ 1.29 \times 10^9 u^{20} - 1.53 \times 10^9 u^{19} + \dots + 1.61 \times 10^7 a - 1.60 \times 10^9, \ u^{21} - 2u^{20} + \dots - 2u + 1 \rangle$$

(i) Arc colorings

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

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -80.1531u^{20} + 94.9724u^{19} + \dots - 77.1772u + 99.0389 \\ 33.9239u^{20} - 40.3249u^{19} + \dots + 33.3984u - 41.6620 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} 89.2432u^{20} - 106.092u^{19} + \dots + 85.7475u - 114.343 \\ -17.4567u^{20} + 21.6317u^{19} + \dots - 15.1161u + 23.6718 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} (46.2292u^{20} + 54.6475u^{19} + \dots - 43.7787u + 57.3769 \\ 33.9239u^{20} - 40.3249u^{19} + \dots + 33.3984u - 41.6620 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} (26.1717u^{20} - 31.1465u^{19} + \dots + 27.5071u - 29.6074 \\ -89.8576u^{20} + 107.426u^{19} + \dots - 86.4020u + 110.656 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} (-17.4567u^{20} + 20.6317u^{19} + \dots - 17.1161u + 23.6718 \\ 80.1961u^{20} - 95.9634u^{19} + \dots + 74.8843u - 102.382 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} (-33.2945u^{20} + 41.0318u^{19} + \dots - 30.7499u + 39.7364 \\ 62.0383u^{20} - 74.4291u^{19} + \dots + 62.2499u - 77.2800 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} (24.4461u^{20} - 28.8789u^{19} + \dots + 22.7417u - 29.0227 \\ 31.8485u^{20} - 37.6738u^{19} + \dots + 32.8621u - 43.6846 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} (-46.8592u^{20} + 56.0635u^{19} + \dots - 42.6727u + 59.8518 \\ -42.9984u^{20} + 51.3621u^{19} + \dots - 41.7293u + 51.8043 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{1978262081}{16127515}u^{20} + \frac{486999773}{3225503}u^{19} + \cdots - \frac{1665299122}{16127515}u + \frac{2329754158}{16127515}u$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{21} - 13u^{20} + \dots + 17u - 1$
c_2	$u^{21} + 3u^{20} + \dots - 3u - 1$
c_3	$u^{21} - 9u^{19} + \dots - 6u + 1$
c_4	$u^{21} - 7u^{19} + \dots + 9u^2 + 1$
<i>C</i> 5	$u^{21} - 3u^{20} + \dots - 3u + 1$
c_6	$u^{21} - 2u^{20} + \dots - 2u + 1$
c_7	$u^{21} - 9u^{19} + \dots - 6u - 1$
c_8	$u^{21} - 3u^{20} + \dots - 4u + 1$
c_9	$u^{21} - 7u^{19} + \dots - 9u^2 - 1$
c_{10}	$u^{21} + 2u^{20} + \dots - 2u - 1$
c_{11}	$u^{21} + 3u^{20} + \dots - 4u - 1$
c_{12}	$u^{21} - u^{20} + \dots + 12u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{21} + 3y^{20} + \dots + 17y - 1$
c_2, c_5	$y^{21} - 13y^{20} + \dots + 17y - 1$
c_3, c_7	$y^{21} - 18y^{20} + \dots + 22y - 1$
c_4, c_9	$y^{21} - 14y^{20} + \dots - 18y - 1$
c_6, c_{10}	$y^{21} - 12y^{20} + \dots - 4y - 1$
c_8,c_{11}	$y^{21} + 15y^{20} + \dots - 8y - 1$
c_{12}	$y^{21} + 3y^{20} + \dots + 26y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.497705 + 0.914980I		
a = -0.500009 + 0.376999I	-1.39865 - 2.19121I	-5.26683 + 7.34066I
b = -0.883156 - 0.078797I		
u = -0.497705 - 0.914980I		-
a = -0.500009 - 0.376999I	-1.39865 + 2.19121I	-5.26683 - 7.34066I
b = -0.883156 + 0.078797I		
u = -0.906547 + 0.120990I		
a = -0.37152 + 1.92475I	-0.291019 - 0.766881I	-12.9784 - 7.1305I
b = -1.049690 - 0.261917I		
u = -0.906547 - 0.120990I		
a = -0.37152 - 1.92475I	-0.291019 + 0.766881I	-12.9784 + 7.1305I
b = -1.049690 + 0.261917I		
u = -0.952688 + 0.665934I		
a = 0.31948 - 1.54539I	4.83291 - 5.48153I	0.61562 + 6.66233I
b = 0.968691 + 0.804354I		
u = -0.952688 - 0.665934I		
a = 0.31948 + 1.54539I	4.83291 + 5.48153I	0.61562 - 6.66233I
b = 0.968691 - 0.804354I		
u = -1.063450 + 0.512232I		
a = -0.589209 + 0.637928I	5.31654 + 0.66491I	0.415399 - 0.133048I
b = 0.810459 - 0.843136I		
u = -1.063450 - 0.512232I		
a = -0.589209 - 0.637928I	5.31654 - 0.66491I	0.415399 + 0.133048I
b = 0.810459 + 0.843136I		
u = 0.801649 + 0.001085I		
a = 0.07947 - 1.82807I	3.72958 + 2.65022I	-0.33689 - 2.74170I
b = -1.18975 + 0.76944I		
u = 0.801649 - 0.001085I		
a = 0.07947 + 1.82807I	3.72958 - 2.65022I	-0.33689 + 2.74170I
b = -1.18975 - 0.76944I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.19930		
a = 1.40578	1.39967	-0.347370
b = -0.550979		
u = 1.194170 + 0.163422I		
a = 0.829774 - 1.015350I	5.50035 + 3.30026I	1.09093 - 4.73816I
b = -0.605623 + 0.779316I		
u = 1.194170 - 0.163422I		
a = 0.829774 + 1.015350I	5.50035 - 3.30026I	1.09093 + 4.73816I
b = -0.605623 - 0.779316I		
u = 0.151730 + 0.674872I		
a = 3.81452 + 0.99293I	-5.43869 + 4.12896I	-19.9561 - 11.5234I
b = 0.512186 - 0.147355I		
u = 0.151730 - 0.674872I		
a = 3.81452 - 0.99293I	-5.43869 - 4.12896I	-19.9561 + 11.5234I
b = 0.512186 + 0.147355I		
u = 1.14383 + 1.06714I		
a = 0.308798 + 0.748318I	2.33435 + 5.94594I	3.05578 - 7.68621I
b = 1.099210 - 0.485659I		
u = 1.14383 - 1.06714I		
a = 0.308798 - 0.748318I	2.33435 - 5.94594I	3.05578 + 7.68621I
b = 1.099210 + 0.485659I		
u = 0.159929 + 0.360867I		
a = -1.98062 + 0.02408I	-9.61177 + 2.97996I	-4.78121 + 1.02692I
b = 1.51366 + 0.09512I		
u = 0.159929 - 0.360867I		
a = -1.98062 - 0.02408I	-9.61177 - 2.97996I	-4.78121 - 1.02692I
b = 1.51366 - 0.09512I		
u = 1.56873 + 0.63635I		
a = -0.113575 - 0.201644I	4.19616 + 2.23780I	2.81535 - 0.97091I
b = 0.599496 + 0.365497I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.56873 - 0.63635I		
a = -0.113575 + 0.201644I	4.19616 - 2.23780I	2.81535 + 0.97091I
b = 0.599496 - 0.365497I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{21} - 13u^{20} + \dots + 17u - 1)(u^{66} + 38u^{65} + \dots - 20u + 1) $
c_2	$(u^{21} + 3u^{20} + \dots - 3u - 1)(u^{66} + 2u^{65} + \dots + 10u^{2} + 1)$
<i>C</i> ₃	$(u^{21} - 9u^{19} + \dots - 6u + 1)(u^{66} - u^{65} + \dots - 599u - 59)$
C4	$(u^{21} - 7u^{19} + \dots + 9u^2 + 1)(u^{66} + u^{65} + \dots + 1920u - 1088)$
<i>C</i> 5	$(u^{21} - 3u^{20} + \dots - 3u + 1)(u^{66} + 2u^{65} + \dots + 10u^{2} + 1)$
<i>C</i> ₆	$(u^{21} - 2u^{20} + \dots - 2u + 1)(u^{66} - u^{65} + \dots - 283u - 59)$
c_7	$(u^{21} - 9u^{19} + \dots - 6u - 1)(u^{66} - u^{65} + \dots - 599u - 59)$
C ₈	$(u^{21} - 3u^{20} + \dots - 4u + 1)(u^{66} - 2u^{65} + \dots - 13u + 1)$
<i>c</i> 9	$(u^{21} - 7u^{19} + \dots - 9u^2 - 1)(u^{66} + u^{65} + \dots + 1920u - 1088)$
c_{10}	$(u^{21} + 2u^{20} + \dots - 2u - 1)(u^{66} - u^{65} + \dots - 283u - 59)$
c_{11}	$(u^{21} + 3u^{20} + \dots - 4u - 1)(u^{66} - 2u^{65} + \dots - 13u + 1)$
c_{12}	$(u^{21} - u^{20} + \dots + 12u + 1)(u^{66} + 2u^{65} + \dots + 2893677u + 899893)$ 20

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{21} + 3y^{20} + \dots + 17y - 1)(y^{66} - 6y^{65} + \dots + 88y + 1)$
c_2,c_5	$(y^{21} - 13y^{20} + \dots + 17y - 1)(y^{66} - 38y^{65} + \dots + 20y + 1)$
c_3, c_7	$(y^{21} - 18y^{20} + \dots + 22y - 1)(y^{66} - 71y^{65} + \dots - 683301y + 3481)$
c_4, c_9	$(y^{21} - 14y^{20} + \dots - 18y - 1)$ $\cdot (y^{66} - 27y^{65} + \dots - 23148544y + 1183744)$
c_6, c_{10}	$(y^{21} - 12y^{20} + \dots - 4y - 1)(y^{66} - 29y^{65} + \dots - 212367y + 3481)$
c_8, c_{11}	$(y^{21} + 15y^{20} + \dots - 8y - 1)(y^{66} + 18y^{65} + \dots - 11y + 1)$
c_{12}	$(y^{21} + 3y^{20} + \dots + 26y - 1)$ $\cdot (y^{66} - 78y^{65} + \dots - 13342381349441y + 809807411449)$