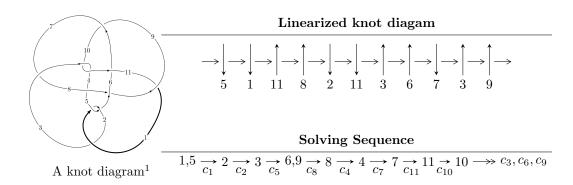
$11n_{119} (K11n_{119})$



Ideals for irreducible components 2 of X_{par}

$$\begin{split} I_1^u &= \langle 2u^{21} - 8u^{20} + \dots + b + 1, \ -25u^{21} + 124u^{20} + \dots + 2a + 34, \ u^{22} - 6u^{21} + \dots - 10u + 2 \rangle \\ I_2^u &= \langle u^9 - 3u^7 - u^6 + 5u^5 + 3u^4 - 5u^3 - 5u^2 + b + u + 3, \\ &- u^9 - 3u^8 + 4u^7 + 5u^6 - 5u^5 - 12u^4 + 4u^3 + 8u^2 + 2a + 3u - 6, \\ &u^{10} + u^9 - 2u^8 - 3u^7 + 3u^6 + 6u^5 - 6u^3 - 3u^2 + 2u + 2 \rangle \\ I_3^u &= \langle u^{10} + u^9 - u^8 - 2u^7 + u^5 + u^4 - u^2a - au - u^2 + b - u - 1, \ u^{10}a - u^{10} + \dots + a + 1, \\ &u^{11} + u^{10} - 2u^9 - 3u^8 + 2u^7 + 4u^6 - 3u^4 - u^3 + u^2 - 1 \rangle \end{split}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 54 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.
$$I_1^u = \langle 2u^{21} - 8u^{20} + \dots + b + 1, -25u^{21} + 124u^{20} + \dots + 2a + 34, u^{22} - 6u^{21} + \dots - 10u + 2 \rangle$$

(i) Arc colorings

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

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{6} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} \frac{25}{2}u^{21} - 62u^{20} + \dots + 82u - 17 \\ -2u^{21} + 8u^{20} + \dots - 3u - 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} \frac{17}{2}u^{21} - 44u^{20} + \dots + 61u - 13 \\ -6u^{21} + 29u^{20} + \dots - 34u + 7 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} \frac{1}{2}u^{21} + 5u^{20} + \dots - 18u + 5 \\ u^{21} - 6u^{20} + \dots + 13u - 3 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} \frac{21}{2}u^{21} - 54u^{20} + \dots + 76u - 16 \\ -5u^{21} + 23u^{20} + \dots - 20u + 3 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -\frac{5}{2}u^{21} + 12u^{20} + \dots - 18u + 5 \\ -u^{21} + 5u^{20} + \dots - 4u + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -\frac{9}{2}u^{21} + 22u^{20} + \dots - 33u + 8 \\ -2u^{21} + 11u^{20} + \dots - 18u + 5 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -\frac{9}{2}u^{21} + 22u^{20} + \dots - 33u + 8 \\ -2u^{21} + 11u^{20} + \dots - 18u + 5 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$14u^{21} - 71u^{20} + 112u^{19} + 92u^{18} - 557u^{17} + 596u^{16} + 457u^{15} - 1669u^{14} + 1075u^{13} + 1272u^{12} - 2511u^{11} + 829u^{10} + 1721u^{9} - 2088u^{8} + 347u^{7} + 1061u^{6} - 920u^{5} + 128u^{4} + 294u^{3} - 268u^{2} + 118u - 26$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1,c_5	$u^{22} + 6u^{21} + \dots + 10u + 2$
c_2	$u^{22} + 10u^{21} + \dots - 12u + 4$
c_3, c_7, c_{10}	$u^{22} + u^{21} + \dots - 2u + 1$
C4	$u^{22} - u^{21} + \dots - 2u + 7$
c_6	$u^{22} + 24u^{21} + \dots + 22528u + 2048$
c_8, c_{11}	$u^{22} + 2u^{21} + \dots + 2u + 1$
<i>c</i> ₉	$u^{22} - 11u^{21} + \dots + 122u + 26$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{22} - 10y^{21} + \dots + 12y + 4$
c_2	$y^{22} + 10y^{21} + \dots - 304y + 16$
c_3, c_7, c_{10}	$y^{22} + 35y^{21} + \dots + 4y + 1$
C ₄	$y^{22} + 11y^{21} + \dots + 276y + 49$
	$y^{22} - 4y^{21} + \dots + 6291456y + 4194304$
c_8, c_{11}	$y^{22} + 6y^{21} + \dots + 10y + 1$
<i>c</i> ₉	$y^{22} - 19y^{21} + \dots - 13636y + 676$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.415944 + 0.915063I		
a = -1.072660 - 0.878457I	-5.47166 + 8.64336I	0.86416 - 4.17929I
b = 1.02363 + 1.11399I		
u = 0.415944 - 0.915063I		
a = -1.072660 + 0.878457I	-5.47166 - 8.64336I	0.86416 + 4.17929I
b = 1.02363 - 1.11399I		
u = -0.905217 + 0.345552I		
a = -0.583392 + 0.385060I	-1.27214 - 0.90119I	0.90722 - 4.11146I
b = -0.562525 + 1.184670I		
u = -0.905217 - 0.345552I		
a = -0.583392 - 0.385060I	-1.27214 + 0.90119I	0.90722 + 4.11146I
b = -0.562525 - 1.184670I		
u = 0.938475 + 0.452741I		
a = -1.211750 - 0.402886I	-1.47927 - 1.70785I	-2.03135 + 1.38197I
b = 0.478302 - 0.375259I		
u = 0.938475 - 0.452741I		
a = -1.211750 + 0.402886I	-1.47927 + 1.70785I	-2.03135 - 1.38197I
b = 0.478302 + 0.375259I		
u = -0.961052 + 0.415714I		
a = 0.289661 - 0.427398I	-1.68977 + 3.84529I	0.76962 - 7.11396I
b = -0.023327 - 1.083510I		
u = -0.961052 - 0.415714I		
a = 0.289661 + 0.427398I	-1.68977 - 3.84529I	0.76962 + 7.11396I
b = -0.023327 + 1.083510I		
u = 1.006010 + 0.554191I		
a = 2.06591 + 0.80886I	0.29997 - 6.36774I	-0.69331 + 5.66304I
b = -1.075660 + 0.915138I		
u = 1.006010 - 0.554191I		
a = 2.06591 - 0.80886I	0.29997 + 6.36774I	-0.69331 - 5.66304I
b = -1.075660 - 0.915138I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.574081 + 0.572331I		
a = 1.42670 + 1.36654I	1.59219 + 1.82500I	1.63588 - 1.17331I
b = -0.932058 - 0.660781I		
u = 0.574081 - 0.572331I		
a = 1.42670 - 1.36654I	1.59219 - 1.82500I	1.63588 + 1.17331I
b = -0.932058 + 0.660781I		
u = 0.699271 + 0.989399I		
a = -0.599352 + 0.221705I	-3.87629 - 3.75640I	1.54792 + 9.99919I
b = 0.625328 - 0.499987I		
u = 0.699271 - 0.989399I		
a = -0.599352 - 0.221705I	-3.87629 + 3.75640I	1.54792 - 9.99919I
b = 0.625328 + 0.499987I		
u = -1.286580 + 0.073564I		
a = 0.264997 - 0.359215I	-11.60060 - 5.70915I	-5.06976 + 3.70908I
b = 0.683728 - 1.124470I		
u = -1.286580 - 0.073564I		
a = 0.264997 + 0.359215I	-11.60060 + 5.70915I	-5.06976 - 3.70908I
b = 0.683728 + 1.124470I		
u = 1.149220 + 0.647666I		
a = -1.73202 - 0.77137I	-7.7036 - 14.3682I	-1.51520 + 7.73205I
b = 1.07821 - 1.26524I		
u = 1.149220 - 0.647666I		
a = -1.73202 + 0.77137I	-7.7036 + 14.3682I	-1.51520 - 7.73205I
b = 1.07821 + 1.26524I		
u = 1.26179 + 0.79306I		
a = 0.366388 - 0.137263I	-5.45392 - 3.28389I	-19.7402 + 5.4613I
b = 0.056443 + 0.483696I		
u = 1.26179 - 0.79306I		
a = 0.366388 + 0.137263I	-5.45392 + 3.28389I	-19.7402 - 5.4613I
b = 0.056443 - 0.483696I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.108057 + 0.452974I		
a = -0.214492 - 1.173680I	0.466609 - 1.223850I	4.32498 + 5.87640I
b = -0.352068 + 0.430105I		
u = 0.108057 - 0.452974I		
a = -0.214492 + 1.173680I	0.466609 + 1.223850I	4.32498 - 5.87640I
b = -0.352068 - 0.430105I		

II.
$$I_2^u = \langle u^9 - 3u^7 + \dots + b + 3, -u^9 - 3u^8 + \dots + 2a - 6, u^{10} + u^9 + \dots + 2u + 2 \rangle$$

(i) Arc colorings

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

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{6} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -\frac{1}{2}u^{9} + \frac{3}{2}u^{8} + \dots - \frac{3}{2}u + 3 \\ -u^{9} + 3u^{7} + u^{6} - 5u^{5} - 3u^{4} + 5u^{3} + 5u^{2} - u - 3 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -\frac{1}{2}u^{9} + \frac{1}{2}u^{8} + \dots - \frac{1}{2}u + 1 \\ u^{7} - u^{5} + 2u^{3} + u^{2} - 1 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -\frac{7}{2}u^{9} - \frac{1}{2}u^{8} + \dots - \frac{3}{2}u - 7 \\ u^{9} - 2u^{7} - u^{6} + 4u^{5} + 2u^{4} - 2u^{3} - 3u^{2} + u + 1 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -\frac{1}{2}u^{9} + \frac{1}{2}u^{8} + \dots - \frac{3}{2}u + 2 \\ -u^{9} + 3u^{7} + u^{6} - 5u^{5} - 3u^{4} + 4u^{3} + 5u^{2} - 3 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{9} + u^{8} - 2u^{7} - 2u^{6} + 3u^{5} + 4u^{4} - 3u^{2} - 2u + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 2u^{9} + u^{8} - 4u^{7} - 3u^{6} + 7u^{5} + 7u^{4} - 2u^{3} - 7u^{2} - 2u + 3 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 2u^{9} + u^{8} - 4u^{7} - 3u^{6} + 7u^{5} + 7u^{4} - 2u^{3} - 7u^{2} - 2u + 3 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-6u^9 - 4u^8 + 12u^7 + 8u^6 - 22u^5 - 18u^4 + 9u^3 + 16u^2 - 2u - 4u^3 + 16u^2 - 2u$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{10} + u^9 - 2u^8 - 3u^7 + 3u^6 + 6u^5 - 6u^3 - 3u^2 + 2u + 2$
c_2	$u^{10} + 5u^9 + \dots + 16u + 4$
c_3, c_7	$u^{10} + u^9 + 5u^8 + 3u^7 + 2u^6 - 2u^5 - 11u^4 - 5u^3 + 4u^2 + 3u + 1$
C ₄	$u^{10} - u^9 + 5u^8 - u^7 + 2u^6 + 4u^5 + 5u^4 - u^3 + 4u^2 + u + 1$
<i>C</i> ₅	$u^{10} - u^9 - 2u^8 + 3u^7 + 3u^6 - 6u^5 + 6u^3 - 3u^2 - 2u + 2$
c_6	$u^{10} + u^9 - u^8 - 3u^7 + 6u^6 - u^5 - 5u^4 + 5u^3 - 2u + 1$
c_8, c_{11}	$u^{10} - 2u^9 + 5u^7 - 5u^6 - u^5 + 6u^4 - 3u^3 - u^2 + u + 1$
<i>c</i> 9	$u^{10} + 8u^9 + \dots + 6u + 2$
c_{10}	$u^{10} - u^9 + 5u^8 - 3u^7 + 2u^6 + 2u^5 - 11u^4 + 5u^3 + 4u^2 - 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{10} - 5y^9 + \dots - 16y + 4$
c_2	$y^{10} + 7y^9 + \dots + 8y + 16$
c_3, c_7, c_{10}	$y^{10} + 9y^9 + 23y^8 - 7y^7 - 76y^6 + 18y^5 + 109y^4 - 97y^3 + 24y^2 - y + 1$
c_4	$y^{10} + 9y^9 + \dots + 7y + 1$
c_6	$y^{10} - 3y^9 + \dots - 4y + 1$
c_8, c_{11}	$y^{10} - 4y^9 + \dots - 3y + 1$
c_9	$y^{10} - 10y^9 + \dots + 40y + 4$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.549591 + 0.807648I		
a = -1.022010 + 0.680670I	3.57479 - 2.04304I	8.10074 + 2.61766I
b = 0.974163 - 0.530625I		
u = -0.549591 - 0.807648I		
a = -1.022010 - 0.680670I	3.57479 + 2.04304I	8.10074 - 2.61766I
b = 0.974163 + 0.530625I		
u = -0.894446 + 0.383624I		
a = 2.23680 - 2.15542I	-7.31599 + 1.59319I	1.11325 - 4.59194I
b = -1.192680 - 0.156235I		
u = -0.894446 - 0.383624I		
a = 2.23680 + 2.15542I	-7.31599 - 1.59319I	1.11325 + 4.59194I
b = -1.192680 + 0.156235I		
u = 0.901394 + 0.162248I		
a = 0.435559 + 0.459277I	-1.44150 + 1.63856I	-1.63913 - 5.81422I
b = 0.526185 + 0.973137I		
u = 0.901394 - 0.162248I		
a = 0.435559 - 0.459277I	-1.44150 - 1.63856I	-1.63913 + 5.81422I
b = 0.526185 - 0.973137I		
u = -1.058430 + 0.638913I		
a = -1.47976 + 0.79682I	2.02348 + 7.46141I	4.83399 - 7.19259I
b = 1.081130 + 0.779940I		
u = -1.058430 - 0.638913I		
a = -1.47976 - 0.79682I	2.02348 - 7.46141I	4.83399 + 7.19259I
b = 1.081130 - 0.779940I		
u = 1.101080 + 0.716410I		
a = -0.170585 + 0.035619I	-5.06545 - 3.26803I	2.59117 + 3.48613I
b = -0.388800 - 0.327209I		
u = 1.101080 - 0.716410I		
a = -0.170585 - 0.035619I	-5.06545 + 3.26803I	2.59117 - 3.48613I
b = -0.388800 + 0.327209I		

$$I_3^u = \langle u^{10} + u^9 + \dots + b - 1, \ u^{10}a - u^{10} + \dots + a + 1, \ u^{11} + u^{10} + \dots + u^2 - 1 \rangle$$

(i) Arc colorings

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

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{6} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{10} - u^{9} + u^{8} + 2u^{7} - u^{5} - u^{4} + u^{2}a + au + u^{2} + u + 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{10} + u^{9} - 2u^{8} - 3u^{7} + u^{6} + 3u^{5} - u^{3}a - u^{2}a - 2u^{3} - u^{2} + a + u \\ -2u^{10} - 2u^{9} + \dots + u + 1 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 3u^{10} - u^{9} + \dots + a - 1 \\ -2u^{10}a - 2u^{9}a + \dots + 4u - 1 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{9}a + u^{10} + \dots + a - 1 \\ -u^{9}a - 2u^{10} + \dots + u + 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{9}a + u^{10} + \dots + a - 1 \\ -u^{9}a - 2u^{10} + \dots + au + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2u^{9}a + u^{10} + \dots + au + 1 \\ -2u^{9}a - 2u^{10} + \dots + au + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2u^{9}a + u^{10} + \dots + au + 1 \\ -2u^{9}a - 2u^{10} + \dots + au + 1 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $4u^{10} 12u^8 4u^7 + 16u^6 + 8u^5 8u^4 8u^3 + 4u 6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing		
c_1, c_5	$ (u^{11} - u^{10} - 2u^9 + 3u^8 + 2u^7 - 4u^6 + 3u^4 - u^3 - u^2 + 1)^2 $		
c_2	$(u^{11} + 5u^{10} + \dots + 2u + 1)^2$		
c_3, c_7, c_{10}	$u^{22} + u^{21} + \dots - 18u + 59$		
C ₄	$u^{22} - u^{21} + \dots + 1546u + 409$		
c_6	$(u-1)^{22}$		
c_8, c_{11}	$u^{22} + 9u^{21} + \dots + 56u + 7$		
<i>c</i> ₉	$(u^{11} + 9u^{10} + \dots + 10u - 1)^2$		

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{11} - 5y^{10} + \dots + 2y - 1)^2$
c_2	$(y^{11} + 3y^{10} + \dots - 10y - 1)^2$
c_3, c_7, c_{10}	$y^{22} + 27y^{21} + \dots + 23040y + 3481$
C_4	$y^{22} + 15y^{21} + \dots + 1253256y + 167281$
c_6	$(y-1)^{22}$
c_8, c_{11}	$y^{22} - 5y^{21} + \dots + 504y + 49$
<i>c</i> ₉	$(y^{11} - 21y^{10} + \dots + 66y - 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.959860 + 0.351396I		
a = -1.82613 + 2.04832I	-8.21600 + 1.27541I	-9.47945 - 0.80097I
b = 2.03404 + 0.57190I		
u = -0.959860 + 0.351396I		
a = 2.70937 - 1.39830I	-8.21600 + 1.27541I	-9.47945 - 0.80097I
b = 0.185361 - 0.335527I		
u = -0.959860 - 0.351396I		
a = -1.82613 - 2.04832I	-8.21600 - 1.27541I	-9.47945 + 0.80097I
b = 2.03404 - 0.57190I		
u = -0.959860 - 0.351396I		
a = 2.70937 + 1.39830I	-8.21600 - 1.27541I	-9.47945 + 0.80097I
b = 0.185361 + 0.335527I		
u = -0.488025 + 0.800566I		
a = -0.986224 + 0.386436I	2.45893 - 1.64593I	0.049877 + 0.244807I
b = 0.522658 - 0.388649I		
u = -0.488025 + 0.800566I		
a = 0.816032 - 0.717910I	2.45893 - 1.64593I	0.049877 + 0.244807I
b = -1.061550 + 0.629616I		
u = -0.488025 - 0.800566I		
a = -0.986224 - 0.386436I	2.45893 + 1.64593I	0.049877 - 0.244807I
b = 0.522658 + 0.388649I		
u = -0.488025 - 0.800566I		
a = 0.816032 + 0.717910I	2.45893 + 1.64593I	0.049877 - 0.244807I
b = -1.061550 - 0.629616I		
u = 1.11640		
a = -0.497001 + 0.359330I	-3.19716	-5.81430
b = -0.064584 + 0.849005I		
u = 1.11640		
a = -0.497001 - 0.359330I	-3.19716	-5.81430
b = -0.064584 - 0.849005I		

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.031510 + 0.521913I		
a = 0.42458 - 1.36387I	-6.95642 - 4.75030I	-5.35891 + 6.77690I
b = 1.53814 + 1.53725I		
u = 1.031510 + 0.521913I		
a = -0.63779 - 1.77107I	-6.95642 - 4.75030I	-5.35891 + 6.77690I
b = 0.252273 - 0.903481I		
u = 1.031510 - 0.521913I		
a = 0.42458 + 1.36387I	-6.95642 + 4.75030I	-5.35891 - 6.77690I
b = 1.53814 - 1.53725I		
u = 1.031510 - 0.521913I		
a = -0.63779 + 1.77107I	-6.95642 + 4.75030I	-5.35891 - 6.77690I
b = 0.252273 + 0.903481I		
u = -1.081080 + 0.631709I		
a = -1.37876 + 0.50428I	0.68511 + 7.02220I	-2.49946 - 4.88619I
b = 0.630247 + 0.593092I		
u = -1.081080 + 0.631709I		
a = 1.36761 - 0.75322I	0.68511 + 7.02220I	-2.49946 - 4.88619I
b = -1.14816 - 1.03156I		
u = -1.081080 - 0.631709I		
a = -1.37876 - 0.50428I	0.68511 - 7.02220I	-2.49946 + 4.88619I
b = 0.630247 - 0.593092I		
u = -1.081080 - 0.631709I		
a = 1.36761 + 0.75322I	0.68511 - 7.02220I	-2.49946 + 4.88619I
b = -1.14816 + 1.03156I		
u = 0.439259 + 0.522038I		
a = -0.618011 + 1.074030I	-5.28977 + 0.45477I	-0.80492 - 1.36957I
b = 0.527375 + 0.930749I		
u = 0.439259 + 0.522038I		
a = -2.37368 - 0.13772I	-5.28977 + 0.45477I	-0.80492 - 1.36957I
b = 1.08420 - 1.22681I		

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.439259 - 0.522038I		
a = -0.618011 - 1.074030I	-5.28977 - 0.45477I	-0.80492 + 1.36957I
b = 0.527375 - 0.930749I		
u = 0.439259 - 0.522038I		
a = -2.37368 + 0.13772I	-5.28977 - 0.45477I	-0.80492 + 1.36957I
b = 1.08420 + 1.22681I		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{10} + u^9 - 2u^8 - 3u^7 + 3u^6 + 6u^5 - 6u^3 - 3u^2 + 2u + 2)$ $\cdot (u^{11} - u^{10} - 2u^9 + 3u^8 + 2u^7 - 4u^6 + 3u^4 - u^3 - u^2 + 1)^2$ $\cdot (u^{22} + 6u^{21} + \dots + 10u + 2)$
c_2	$(u^{10} + 5u^9 + \dots + 16u + 4)(u^{11} + 5u^{10} + \dots + 2u + 1)^2$ $\cdot (u^{22} + 10u^{21} + \dots - 12u + 4)$
c_3, c_7	$(u^{10} + u^9 + 5u^8 + 3u^7 + 2u^6 - 2u^5 - 11u^4 - 5u^3 + 4u^2 + 3u + 1)$ $\cdot (u^{22} + u^{21} + \dots - 18u + 59)(u^{22} + u^{21} + \dots - 2u + 1)$
c_4	$ (u^{10} - u^9 + 5u^8 - u^7 + 2u^6 + 4u^5 + 5u^4 - u^3 + 4u^2 + u + 1) $ $ \cdot (u^{22} - u^{21} + \dots - 2u + 7)(u^{22} - u^{21} + \dots + 1546u + 409) $
c_5	$(u^{10} - u^9 - 2u^8 + 3u^7 + 3u^6 - 6u^5 + 6u^3 - 3u^2 - 2u + 2)$ $\cdot (u^{11} - u^{10} - 2u^9 + 3u^8 + 2u^7 - 4u^6 + 3u^4 - u^3 - u^2 + 1)^2$ $\cdot (u^{22} + 6u^{21} + \dots + 10u + 2)$
<i>c</i> ₆	$(u-1)^{22}(u^{10} + u^9 - u^8 - 3u^7 + 6u^6 - u^5 - 5u^4 + 5u^3 - 2u + 1)$ $\cdot (u^{22} + 24u^{21} + \dots + 22528u + 2048)$
c_8, c_{11}	$(u^{10} - 2u^9 + 5u^7 - 5u^6 - u^5 + 6u^4 - 3u^3 - u^2 + u + 1)$ $\cdot (u^{22} + 2u^{21} + \dots + 2u + 1)(u^{22} + 9u^{21} + \dots + 56u + 7)$
<i>c</i> ₉	$(u^{10} + 8u^9 + \dots + 6u + 2)(u^{11} + 9u^{10} + \dots + 10u - 1)^2$ $\cdot (u^{22} - 11u^{21} + \dots + 122u + 26)$
c ₁₀	$(u^{10} - u^9 + 5u^8 - 3u^7 + 2u^6 + 2u^5 - 11u^4 + 5u^3 + 4u^2 - 3u + 1)$ $\cdot (u^{22} + u^{21} + \dots - 18u + 59)(u^{22} + u^{21} + \dots - 2u + 1)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{10} - 5y^9 + \dots - 16y + 4)(y^{11} - 5y^{10} + \dots + 2y - 1)^2$ $\cdot (y^{22} - 10y^{21} + \dots + 12y + 4)$
c_2	$(y^{10} + 7y^9 + \dots + 8y + 16)(y^{11} + 3y^{10} + \dots - 10y - 1)^2$ $\cdot (y^{22} + 10y^{21} + \dots - 304y + 16)$
c_3, c_7, c_{10}	$(y^{10} + 9y^9 + 23y^8 - 7y^7 - 76y^6 + 18y^5 + 109y^4 - 97y^3 + 24y^2 - y + 1)$ $\cdot (y^{22} + 27y^{21} + \dots + 23040y + 3481)(y^{22} + 35y^{21} + \dots + 4y + 1)$
c_4	$(y^{10} + 9y^9 + \dots + 7y + 1)(y^{22} + 11y^{21} + \dots + 276y + 49)$ $\cdot (y^{22} + 15y^{21} + \dots + 1253256y + 167281)$
c_6	$((y-1)^{22})(y^{10} - 3y^9 + \dots - 4y + 1)$ $\cdot (y^{22} - 4y^{21} + \dots + 6291456y + 4194304)$
c_8, c_{11}	$(y^{10} - 4y^9 + \dots - 3y + 1)(y^{22} - 5y^{21} + \dots + 504y + 49)$ $\cdot (y^{22} + 6y^{21} + \dots + 10y + 1)$
c_9	$(y^{10} - 10y^9 + \dots + 40y + 4)(y^{11} - 21y^{10} + \dots + 66y - 1)^2$ $\cdot (y^{22} - 19y^{21} + \dots - 13636y + 676)$