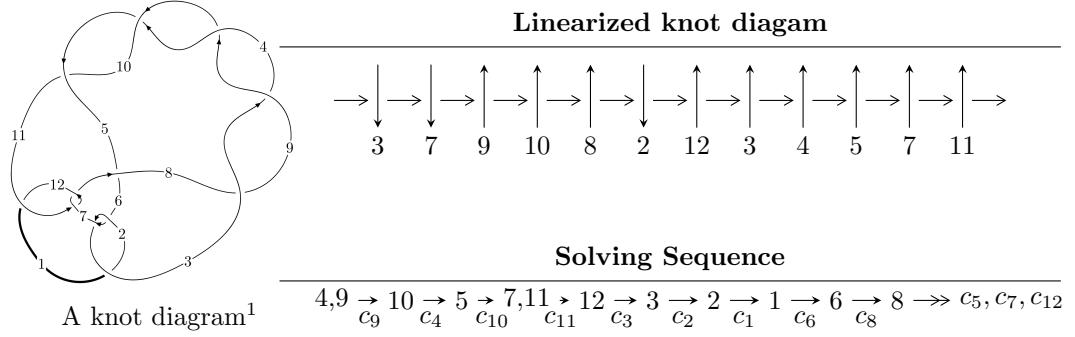


$12n_{0570}$ ($K12n_{0570}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 6u^{18} - 3u^{17} + \dots + 4b - 8, -5u^{18} + 3u^{17} + \dots + 4a + 2, u^{19} - 2u^{18} + \dots - 2u + 2 \rangle$$

$$I_2^u = \langle b + u - 1, 3a - 2u + 3, u^2 - 3 \rangle$$

$$I_3^u = \langle a^2u + 2a^2 + 2au + b + 5a - 2u - 2, a^3 + 2a^2 - 3au - u + 1, u^2 + u - 1 \rangle$$

$$I_4^u = \langle b - 1, a + 1, u + 1 \rangle$$

$$I_5^u = \langle b, a + 1, u + 1 \rangle$$

$$I_6^u = \langle b - 2, a + 1, u - 1 \rangle$$

$$I_7^u = \langle b - 1, a, u - 1 \rangle$$

$$I_1^v = \langle a, b - 1, v - 1 \rangle$$

* 8 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 32 representations.

¹The image of knot diagram is generated by the software “**Draw programme**” developed by Andrew Bartholomew(<http://www.layer8.co.uk/math/draw/index.htm#Running-draw>), where we modified some parts for our purpose(<https://github.com/CATsTAILs/LinksPainter>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

$$\text{I. } I_1^u = \langle 6u^{18} - 3u^{17} + \dots + 4b - 8, -5u^{18} + 3u^{17} + \dots + 4a + 2, u^{19} - 2u^{18} + \dots - 2u + 2 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_4 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_9 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_5 &= \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_7 &= \begin{pmatrix} \frac{5}{4}u^{18} - \frac{3}{4}u^{17} + \dots + 2u - \frac{1}{2} \\ -\frac{3}{2}u^{18} + \frac{3}{4}u^{17} + \dots + 2u^2 + 2 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -u^2 + 1 \\ u^4 - 2u^2 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} \frac{5}{4}u^{18} - \frac{3}{4}u^{17} + \dots + 2u - \frac{1}{2} \\ -\frac{5}{4}u^{18} + \frac{1}{4}u^{17} + \dots - u + \frac{3}{2} \end{pmatrix} \\ a_3 &= \begin{pmatrix} -u \\ u \end{pmatrix} \\ a_2 &= \begin{pmatrix} -\frac{1}{4}u^{18} + \frac{11}{4}u^{16} + \dots - \frac{1}{2}u - \frac{1}{2} \\ \frac{1}{4}u^{18} - \frac{5}{2}u^{16} + \dots + u^2 + u \end{pmatrix} \\ a_1 &= \begin{pmatrix} \frac{1}{4}u^{16} - \frac{5}{2}u^{14} + \dots - \frac{1}{2}u - \frac{1}{2} \\ \frac{1}{2}u^{11} - \frac{7}{2}u^9 + \dots + \frac{3}{2}u^2 + u \end{pmatrix} \\ a_6 &= \begin{pmatrix} -u^7 + 4u^5 - 4u^3 + 2u \\ u^7 - 3u^5 + u \end{pmatrix} \\ a_8 &= \begin{pmatrix} -u^2 + 1 \\ u^2 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

$$(iii) \text{ Cusp Shapes} = 2u^{18} - 20u^{16} - 4u^{15} + 74u^{14} + 38u^{13} - 118u^{12} - 130u^{11} + 54u^{10} + 186u^9 + 68u^8 - 90u^7 - 112u^6 - 20u^5 + 38u^4 + 62u^3 + 30u^2 + 4u + 4$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{19} + 27u^{18} + \cdots + 3437u + 121$
c_2, c_6	$u^{19} - u^{18} + \cdots - 37u - 11$
c_3, c_4, c_8 c_9, c_{10}	$u^{19} - 2u^{18} + \cdots - 2u + 2$
c_5	$u^{19} + 5u^{18} + \cdots - 2958u + 842$
c_7, c_{11}	$u^{19} + u^{18} + \cdots + 11u - 5$
c_{12}	$u^{19} - 3u^{18} + \cdots + 261u - 25$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{19} - 63y^{18} + \cdots + 5592117y - 14641$
c_2, c_6	$y^{19} - 27y^{18} + \cdots + 3437y - 121$
c_3, c_4, c_8 c_9, c_{10}	$y^{19} - 24y^{18} + \cdots + 195y^2 - 4$
c_5	$y^{19} + 39y^{18} + \cdots + 8404544y - 708964$
c_7, c_{11}	$y^{19} - 3y^{18} + \cdots + 261y - 25$
c_{12}	$y^{19} + 33y^{18} + \cdots + 24021y - 625$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.794152 + 0.543465I$		
$a = 0.482447 + 0.204059I$	$-7.34662 - 0.67943I$	$5.65616 + 1.50255I$
$b = 0.924151 + 0.772270I$		
$u = -0.794152 - 0.543465I$		
$a = 0.482447 - 0.204059I$	$-7.34662 + 0.67943I$	$5.65616 - 1.50255I$
$b = 0.924151 - 0.772270I$		
$u = 0.935136 + 0.498632I$		
$a = -0.009698 - 0.441743I$	$-6.45737 + 7.68487I$	$7.03505 - 5.77603I$
$b = -1.24024 + 1.35546I$		
$u = 0.935136 - 0.498632I$		
$a = -0.009698 + 0.441743I$	$-6.45737 - 7.68487I$	$7.03505 + 5.77603I$
$b = -1.24024 - 1.35546I$		
$u = -0.787128 + 0.325506I$		
$a = 0.150228 + 0.339895I$	$1.07697 - 4.13087I$	$9.45859 + 7.55506I$
$b = -0.48300 - 1.36935I$		
$u = -0.787128 - 0.325506I$		
$a = 0.150228 - 0.339895I$	$1.07697 + 4.13087I$	$9.45859 - 7.55506I$
$b = -0.48300 + 1.36935I$		
$u = -0.071777 + 0.733673I$		
$a = 0.15515 - 1.56739I$	$-9.51900 - 3.56143I$	$3.03301 + 2.71216I$
$b = -0.214541 - 0.685780I$		
$u = -0.071777 - 0.733673I$		
$a = 0.15515 + 1.56739I$	$-9.51900 + 3.56143I$	$3.03301 - 2.71216I$
$b = -0.214541 + 0.685780I$		
$u = -0.039838 + 0.447508I$		
$a = 1.21035 + 1.34300I$	$-1.13039 + 1.43084I$	$1.52232 - 3.59827I$
$b = -0.102434 + 0.177489I$		
$u = -0.039838 - 0.447508I$		
$a = 1.21035 - 1.34300I$	$-1.13039 - 1.43084I$	$1.52232 + 3.59827I$
$b = -0.102434 - 0.177489I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.382837$		
$a = 0.501969$	0.831777	13.6610
$b = 0.660647$		
$u = 1.62442 + 0.15410I$		
$a = -0.86935 + 1.16752I$	0.84264 + 3.32574I	7.36493 - 0.96716I
$b = 1.85650 - 1.36466I$		
$u = 1.62442 - 0.15410I$		
$a = -0.86935 - 1.16752I$	0.84264 - 3.32574I	7.36493 + 0.96716I
$b = 1.85650 + 1.36466I$		
$u = 1.64903 + 0.08490I$		
$a = 0.26722 - 2.31947I$	9.55424 + 5.66378I	11.29825 - 4.88655I
$b = -0.55282 + 2.88445I$		
$u = 1.64903 - 0.08490I$		
$a = 0.26722 + 2.31947I$	9.55424 - 5.66378I	11.29825 + 4.88655I
$b = -0.55282 - 2.88445I$		
$u = -1.69418 + 0.14515I$		
$a = 1.07205 + 2.00699I$	2.65549 - 10.25360I	8.99721 + 4.95875I
$b = -1.98554 - 2.27964I$		
$u = -1.69418 - 0.14515I$		
$a = 1.07205 - 2.00699I$	2.65549 + 10.25360I	8.99721 - 4.95875I
$b = -1.98554 + 2.27964I$		
$u = 1.72122$		
$a = -0.936889$	14.6839	18.0050
$b = 0.803538$		
$u = -1.74710$		
$a = -1.48185$	11.7122	5.60290
$b = 2.13166$		

$$\text{II. } I_2^u = \langle b + u - 1, 3a - 2u + 3, u^2 - 3 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ -3 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u \\ -2u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} \frac{2}{3}u - 1 \\ -u + 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2 \\ 3 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -\frac{2}{3}u - 1 \\ u + 2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -\frac{5}{3}u + 1 \\ 2u - 1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -\frac{2}{3}u + 1 \\ u - 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -2 \\ 3 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = 12

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_{11} c_{12}	$(u - 1)^2$
c_3, c_4, c_5 c_8, c_9, c_{10}	$u^2 - 3$
c_6, c_7	$(u + 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6 c_7, c_{11}, c_{12}	$(y - 1)^2$
c_3, c_4, c_5 c_8, c_9, c_{10}	$(y - 3)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.73205$		
$a = 0.154701$	13.1595	12.0000
$b = -0.732051$		
$u = -1.73205$		
$a = -2.15470$	13.1595	12.0000
$b = 2.73205$		

III.

$$I_3^u = \langle a^2u + 2a^2 + 2au + b + 5a - 2u - 2, \ a^3 + 2a^2 - 3au - u + 1, \ u^2 + u - 1 \rangle$$

(i) **Arc colorings**

$$a_4 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ u-1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u \\ -u+1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} a \\ -a^2u - 2a^2 - 2au - 5a + 2u + 2 \end{pmatrix}$$

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

$$a_{12} = \begin{pmatrix} a \\ a^2u + 2a^2 + 3au + 4a - 2u - 2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -a \\ -a^2u - 2a^2 - 3au - 4a + 2u + 2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -a^2 - au - 3a + 2u \\ -a^2u - a^2 - 2au - 2a + 2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} u \\ -u+1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} u \\ -u+1 \end{pmatrix}$$

(ii) **Obstruction class** = -1

(iii) **Cusp Shapes** = 10

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^6 + 4u^5 + 6u^4 + 7u^3 + 7u^2 + 3u + 1$
c_2, c_6, c_7 c_{11}	$u^6 - 2u^4 - u^3 + u^2 + u - 1$
c_3, c_4, c_8 c_9, c_{10}	$(u^2 + u - 1)^3$
c_5	u^6
c_{12}	$u^6 - 4u^5 + 6u^4 - 7u^3 + 7u^2 - 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_{12}	$y^6 - 4y^5 - 6y^4 + 13y^3 + 19y^2 + 5y + 1$
c_2, c_6, c_7 c_{11}	$y^6 - 4y^5 + 6y^4 - 7y^3 + 7y^2 - 3y + 1$
c_3, c_4, c_8 c_9, c_{10}	$(y^2 - 3y + 1)^3$
c_5	y^6

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.618034$		
$a = 0.365159 + 0.080975I$	0.986960	10.0000
$b = 0.626987 - 0.659789I$		
$u = 0.618034$		
$a = 0.365159 - 0.080975I$	0.986960	10.0000
$b = 0.626987 + 0.659789I$		
$u = 0.618034$		
$a = -2.73032$	0.986960	10.0000
$b = 0.746026$		
$u = -1.61803$		
$a = -0.659441$	8.88264	10.0000
$b = -0.238962$		
$u = -1.61803$		
$a = -0.67028 + 1.87638I$	8.88264	10.0000
$b = 1.11948 - 2.34901I$		
$u = -1.61803$		
$a = -0.67028 - 1.87638I$	8.88264	10.0000
$b = 1.11948 + 2.34901I$		

$$\text{IV. } I_4^u = \langle b - 1, a + 1, u + 1 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = 18

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_6	u
c_3, c_4, c_7 c_8, c_9, c_{10} c_{11}	$u + 1$
c_5, c_{12}	$u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6	y
c_3, c_4, c_5 c_7, c_8, c_9 c_{10}, c_{11}, c_{12}	$y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.00000$		
$a = -1.00000$	4.93480	18.0000
$b = 1.00000$		

$$\mathbf{V} \cdot I_5^u = \langle b, a+1, u+1 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = 12

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_4 c_6, c_7, c_{12}	$u - 1$
c_2, c_5, c_8 c_9, c_{10}, c_{11}	$u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_3	
c_4, c_5, c_6	
c_7, c_8, c_9	$y - 1$
c_{10}, c_{11}, c_{12}	

(vi) Complex Volumes and Cusp Shapes

Solutions to I_5^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.00000$		
$a = -1.00000$	3.28987	12.0000
$b = 0$		

$$\text{VI. } I_6^u = \langle b - 2, a + 1, u - 1 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -2 \\ 3 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = 12

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5, c_6 c_7, c_8, c_9 c_{10}, c_{12}	$u - 1$
c_2, c_3, c_4 c_{11}	$u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_3	
c_4, c_5, c_6	
c_7, c_8, c_9	$y - 1$
c_{10}, c_{11}, c_{12}	

(vi) Complex Volumes and Cusp Shapes

Solutions to I_6^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.00000$		
$a = -1.00000$	3.28987	12.0000
$b = 2.00000$		

$$\text{VII. } I_7^u = \langle b - 1, a, u - 1 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = 6

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u + 1$
c_2, c_3, c_4 c_6, c_8, c_9 c_{10}	$u - 1$
c_7, c_{11}, c_{12}	u

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_3 c_4, c_5, c_6 c_8, c_9, c_{10}	$y - 1$
c_7, c_{11}, c_{12}	y

(vi) Complex Volumes and Cusp Shapes

	Solutions to I_7^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u =$	1.00000		
$a =$	0	1.64493	6.00000
$b =$	1.00000		

$$\text{VIII. } I_1^v = \langle a, b - 1, v - 1 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = 0

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_{11} c_{12}	$u - 1$
c_3, c_4, c_5 c_8, c_9, c_{10}	u
c_6, c_7	$u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6 c_7, c_{11}, c_{12}	$y - 1$
c_3, c_4, c_5 c_8, c_9, c_{10}	y

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^v	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$v = 1.00000$		
$a = 0$	0	0
$b = 1.00000$		

IX. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$u(u-1)^5(u+1)(u^6 + 4u^5 + 6u^4 + 7u^3 + 7u^2 + 3u + 1)$ $\cdot (u^{19} + 27u^{18} + \dots + 3437u + 121)$
c_2	$u(u-1)^4(u+1)^2(u^6 - 2u^4 - u^3 + u^2 + u - 1)$ $\cdot (u^{19} - u^{18} + \dots - 37u - 11)$
c_3, c_4, c_8 c_9, c_{10}	$u(u-1)^2(u+1)^2(u^2 - 3)(u^2 + u - 1)^3(u^{19} - 2u^{18} + \dots - 2u + 2)$
c_5	$u^7(u-1)^2(u+1)^2(u^2 - 3)(u^{19} + 5u^{18} + \dots - 2958u + 842)$
c_6	$u(u-1)^3(u+1)^3(u^6 - 2u^4 - u^3 + u^2 + u - 1)$ $\cdot (u^{19} - u^{18} + \dots - 37u - 11)$
c_7	$u(u-1)^2(u+1)^4(u^6 - 2u^4 - u^3 + u^2 + u - 1)$ $\cdot (u^{19} + u^{18} + \dots + 11u - 5)$
c_{11}	$u(u-1)^3(u+1)^3(u^6 - 2u^4 - u^3 + u^2 + u - 1)$ $\cdot (u^{19} + u^{18} + \dots + 11u - 5)$
c_{12}	$u(u-1)^6(u^6 - 4u^5 + 6u^4 - 7u^3 + 7u^2 - 3u + 1)$ $\cdot (u^{19} - 3u^{18} + \dots + 261u - 25)$

X. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y(y - 1)^6(y^6 - 4y^5 - 6y^4 + 13y^3 + 19y^2 + 5y + 1)$ $\cdot (y^{19} - 63y^{18} + \dots + 5592117y - 14641)$
c_2, c_6	$y(y - 1)^6(y^6 - 4y^5 + 6y^4 - 7y^3 + 7y^2 - 3y + 1)$ $\cdot (y^{19} - 27y^{18} + \dots + 3437y - 121)$
c_3, c_4, c_8 c_9, c_{10}	$y(y - 3)^2(y - 1)^4(y^2 - 3y + 1)^3(y^{19} - 24y^{18} + \dots + 195y^2 - 4)$
c_5	$y^7(y - 3)^2(y - 1)^4(y^{19} + 39y^{18} + \dots + 8404544y - 708964)$
c_7, c_{11}	$y(y - 1)^6(y^6 - 4y^5 + 6y^4 - 7y^3 + 7y^2 - 3y + 1)$ $\cdot (y^{19} - 3y^{18} + \dots + 261y - 25)$
c_{12}	$y(y - 1)^6(y^6 - 4y^5 - 6y^4 + 13y^3 + 19y^2 + 5y + 1)$ $\cdot (y^{19} + 33y^{18} + \dots + 24021y - 625)$