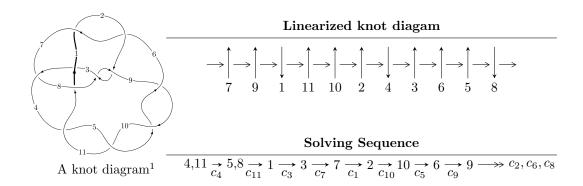
$11a_{313} \ (K11a_{313})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -5u^{17} - 33u^{16} + \dots + 4b - 52, \ 13u^{17} + 81u^{16} + \dots + 8a + 96, \ u^{18} + 7u^{17} + \dots + 76u + 8 \rangle$$

$$I_2^u = \langle -2a^5u^4 + 3a^4u^4 + \dots + 4a + 1, \ -3a^5u^4 + 2a^4u^4 + \dots - 19a + 171, \ u^5 - u^4 + 4u^3 - 3u^2 + 3u - 1 \rangle$$

$$I_3^u = \langle -u^9 - 6u^7 - 12u^5 - 9u^3 - u^2 + b - 2u - 1, \ u^9 - u^8 + 7u^7 - 6u^6 + 17u^5 - 12u^4 + 17u^3 - 8u^2 + a + 6u,$$

$$u^{10} + 7u^8 + 17u^6 + 17u^4 + u^3 + 7u^2 + 2u + 1 \rangle$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 58 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).

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

I.
$$I_1^u = \langle -5u^{17} - 33u^{16} + \dots + 4b - 52, \ 13u^{17} + 81u^{16} + \dots + 8a + 96, \ u^{18} + 7u^{17} + \dots + 76u + 8 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -\frac{13}{8}u^{17} - \frac{81}{8}u^{16} + \dots - \frac{427}{4}u - 12 \\ \frac{5}{4}u^{17} + \frac{33}{4}u^{16} + \dots + \frac{223}{2}u + 13 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -\frac{5}{8}u^{17} - \frac{35}{8}u^{16} + \dots - 100u - 13 \\ \frac{1}{2}u^{16} + \frac{5}{2}u^{15} + \dots + \frac{71}{2}u + 5 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -\frac{1}{8}u^{17} - \frac{5}{8}u^{16} + \dots - \frac{5}{4}u + \frac{1}{2} \\ -\frac{1}{4}u^{17} - \frac{3}{4}u^{16} + \dots + 4u + 1 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} \frac{3}{8}u^{17} - \frac{15}{8}u^{16} + \dots + \frac{19}{4}u + 1 \\ \frac{5}{4}u^{17} + \frac{33}{4}u^{16} + \dots + \frac{223}{2}u + 13 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} \frac{1}{8}u^{17} + \frac{5}{8}u^{16} + \dots - \frac{107}{4}u - \frac{9}{2} \\ \frac{1}{4}u^{17} + \frac{7}{4}u^{16} + \dots + 10u + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} -u^{3} - 2u \\ u^{5} + 3u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{3} - 2u \\ u^{5} + 3u^{3} + u \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$u^{16} + 6u^{15} + 28u^{14} + 92u^{13} + 249u^{12} + 554u^{11} + 1049u^{10} + 1698u^9 + 2364u^8 + 2836u^7 + 2904u^6 + 2530u^5 + 1829u^4 + 1076u^3 + 490u^2 + 164u + 38u^2 + 164u^2 + 164u^2$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing	
c_1, c_2, c_6 c_8	$u^{18} + 10u^{16} + \dots - 2u + 1$	
c_3	$u^{18} - 16u^{17} + \dots - 336u + 32$	
c_4, c_5, c_9 c_{10}	$u^{18} - 7u^{17} + \dots - 76u + 8$	
c_{7}, c_{11}	$u^{18} + u^{17} + \dots - u + 1$	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6 c_8	$y^{18} + 20y^{17} + \dots - 10y + 1$
c_3	$y^{18} - 2y^{17} + \dots + 1280y + 1024$
c_4, c_5, c_9 c_{10}	$y^{18} + 21y^{17} + \dots - 80y + 64$
c_7, c_{11}	$y^{18} - 9y^{17} + \dots + 5y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.938094 + 0.127303I		
a = -0.941408 - 0.790571I	-6.07729 - 5.27732I	-1.03667 + 5.17608I
b = 0.983772 + 0.621786I		
u = -0.938094 - 0.127303I		
a = -0.941408 + 0.790571I	-6.07729 + 5.27732I	-1.03667 - 5.17608I
b = 0.983772 - 0.621786I		
u = -0.582885 + 1.040010I		
a = -0.111385 + 1.230910I	-9.66105 - 10.31280I	-2.35535 + 7.07108I
b = -1.21523 - 0.83332I		
u = -0.582885 - 1.040010I		
a = -0.111385 - 1.230910I	-9.66105 + 10.31280I	-2.35535 - 7.07108I
b = -1.21523 + 0.83332I		
u = -0.778632 + 0.958835I		
a = 0.617064 + 0.421015I	-8.45479 - 0.42847I	-5.71443 - 0.57034I
b = -0.884150 + 0.263847I		
u = -0.778632 - 0.958835I		
a = 0.617064 - 0.421015I	-8.45479 + 0.42847I	-5.71443 + 0.57034I
b = -0.884150 - 0.263847I		
u = -0.355230 + 0.629435I		
a = 0.238746 - 1.335150I	-0.34160 - 2.17443I	5.24199 + 4.45398I
b = 0.755577 + 0.624559I		
u = -0.355230 - 0.629435I		
a = 0.238746 + 1.335150I	-0.34160 + 2.17443I	5.24199 - 4.45398I
b = 0.755577 - 0.624559I		
u = 0.018715 + 1.284460I		
a = -0.361169 + 0.099115I	-3.71490 - 1.64606I	3.60086 + 4.30018I
b = -0.134069 - 0.462052I		
u = 0.018715 - 1.284460I		
a = -0.361169 - 0.099115I	-3.71490 + 1.64606I	3.60086 - 4.30018I
b = -0.134069 + 0.462052I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.393761 + 0.215364I		
a = 1.053940 - 0.745188I	0.864807 - 0.492874I	9.89914 + 4.36324I
b = -0.254512 + 0.520406I		
u = -0.393761 - 0.215364I		
a = 1.053940 + 0.745188I	0.864807 + 0.492874I	9.89914 - 4.36324I
b = -0.254512 - 0.520406I		
u = -0.09260 + 1.57781I		
a = -0.470683 + 0.745843I	-7.84988 - 3.77391I	4.41683 + 0.84733I
b = -1.133220 - 0.811713I		
u = -0.09260 - 1.57781I		
a = -0.470683 - 0.745843I	-7.84988 + 3.77391I	4.41683 - 0.84733I
b = -1.133220 + 0.811713I		
u = -0.16290 + 1.73082I		
a = 0.468027 - 0.863900I	-19.2814 - 13.3553I	-3.21813 + 6.04416I
b = 1.41901 + 0.95080I		
u = -0.16290 - 1.73082I		
a = 0.468027 + 0.863900I	-19.2814 + 13.3553I	-3.21813 - 6.04416I
b = 1.41901 - 0.95080I		
u = -0.21462 + 1.75897I		
a = 0.006873 - 0.548217I	-17.8610 - 4.5054I	-5.83423 + 2.80770I
b = 0.962821 + 0.129746I		
u = -0.21462 - 1.75897I		
a = 0.006873 + 0.548217I	-17.8610 + 4.5054I	-5.83423 - 2.80770I
b = 0.962821 - 0.129746I		

II.
$$I_2^u = \langle -2a^5u^4 + 3a^4u^4 + \dots + 4a + 1, -3a^5u^4 + 2a^4u^4 + \dots - 19a + 171, u^5 - u^4 + 4u^3 - 3u^2 + 3u - 1 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -a^{5}u^{4} - 2u^{4}a^{2} + \dots - 4a^{2} - a \end{pmatrix}$$

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

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

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

$$a_{10} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u \\ -u^{4} - 2u^{2} \end{pmatrix}$$

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

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

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

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$-4a^5u^4 + 16a^4u^3 - 16a^4u^2 - 8a^3u^3 - 8u^4a^2 + 24a^4u + 4a^3u^2 + 28u^3a^2 - 8a^4 - 32a^2u^2 + 4u^4 + 44a^2u + 4u^3 - 16a^2 + 8au + 16u^2 - 4a + 4u + 6$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing	
c_1, c_2, c_6 c_8	$u^{30} + u^{29} + \dots + 312u + 43$	
c_3	$(u^3 + u^2 - 1)^{10}$	
c_4, c_5, c_9 c_{10}	$(u^5 + u^4 + 4u^3 + 3u^2 + 3u + 1)^6$	
c_{7}, c_{11}	$u^{30} + 3u^{29} + \dots + 54u + 77$	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6 c_8	$y^{30} + 27y^{29} + \dots - 46776y + 1849$
c_3	$(y^3 - y^2 + 2y - 1)^{10}$
c_4, c_5, c_9 c_{10}	$(y^5 + 7y^4 + 16y^3 + 13y^2 + 3y - 1)^6$
c_7, c_{11}	$y^{30} - 9y^{29} + \dots - 103632y + 5929$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.233677 + 0.885557I		
a = -0.225781 - 0.945350I	-3.73048 - 0.61415I	-1.37593 - 1.24344I
b = -0.711989 - 0.202631I		
u = 0.233677 + 0.885557I		
a = -0.437610 - 1.062670I	-3.73048 + 5.04209I	-1.37593 - 7.20234I
b = -1.42316 + 0.86494I		
u = 0.233677 + 0.885557I		
a = -0.412268 + 0.695214I	-3.73048 - 0.61415I	-1.37593 - 1.24344I
b = 0.784401 - 0.420848I		
u = 0.233677 + 0.885557I		
a = -0.022978 + 0.780283I	-7.86806 + 2.21397I	-7.90519 - 4.22289I
b = -1.06610 - 1.51970I		
u = 0.233677 + 0.885557I		
a = 0.51667 + 1.74342I	-3.73048 + 5.04209I	-1.37593 - 7.20234I
b = 0.838791 - 0.635849I		
u = 0.233677 + 0.885557I		
a = -1.90138 + 0.70215I	-7.86806 + 2.21397I	-7.90519 - 4.22289I
b = -0.696354 + 0.161986I		
u = 0.233677 - 0.885557I		
a = -0.225781 + 0.945350I	-3.73048 + 0.61415I	-1.37593 + 1.24344I
b = -0.711989 + 0.202631I		
u = 0.233677 - 0.885557I		
a = -0.437610 + 1.062670I	-3.73048 - 5.04209I	-1.37593 + 7.20234I
b = -1.42316 - 0.86494I		
u = 0.233677 - 0.885557I		
a = -0.412268 - 0.695214I	-3.73048 + 0.61415I	-1.37593 + 1.24344I
b = 0.784401 + 0.420848I		
u = 0.233677 - 0.885557I		
a = -0.022978 - 0.780283I	-7.86806 - 2.21397I	-7.90519 + 4.22289I
b = -1.06610 + 1.51970I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.233677 - 0.885557I		
a = 0.51667 - 1.74342I	-3.73048 - 5.04209I	-1.37593 + 7.20234I
b = 0.838791 + 0.635849I		
u = 0.233677 - 0.885557I		
a = -1.90138 - 0.70215I	-7.86806 - 2.21397I	-7.90519 + 4.22289I
b = -0.696354 - 0.161986I		
u = 0.416284		
a = -1.70429 + 0.71544I	-1.02849 + 2.82812I	7.11859 - 2.97945I
b = 0.927316 - 0.660610I		
u = 0.416284		
a = -1.70429 - 0.71544I	-1.02849 - 2.82812I	7.11859 + 2.97945I
b = 0.927316 + 0.660610I		
u = 0.416284		
a = 1.80155 + 1.87423I	-5.16607	-60.589325 + 0.10I
b = 0.749954 - 0.780211I		
u = 0.416284		_
a = 1.80155 - 1.87423I	-5.16607	-60.589325 + 0.10I
b = 0.749954 + 0.780211I		
u = 0.416284	4 00040 0 000407	- 11070 0 - 0 - 0 - 7
a = 2.22761 + 1.58692I	-1.02849 - 2.82812I	7.11859 + 2.97945I
$\frac{b = -0.709470 - 0.297827I}{u = 0.416284}$		
	1.00040 + 0.000107	7 11050 0 070451
a = 2.22761 - 1.58692I	-1.02849 + 2.82812I	7.11859 - 2.97945I
b = -0.709470 + 0.297827I $u = 0.05818 + 1.69128I$		
a = 0.536946 + 0.647646I $a = 0.536946 + 0.647646I$	$\begin{bmatrix} -12.86900 + 0.50362I \end{bmatrix}$	-2.40898 + 0.61717I
	-12.00900 + 0.00002 <i>I</i>	-2.40090 ± 0.011111
b = 0.871737 - 0.114577I $u = 0.05818 + 1.69128I$		
a = -0.578917 - 1.066270I	-12.8690 + 6.1599I	-2.40898 - 5.34173I
b = -0.945552 + 0.820310I	12.0030 + 0.10331	2.40030 - 0.041101
0 = -0.945552 + 0.8203101		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.05818 + 1.69128I		
a = 0.465240 + 0.575080I	-12.8690 + 6.1599I	-2.40898 - 5.34173I
b = 1.76968 - 1.04115I		
u = 0.05818 + 1.69128I		
a = 1.19026 - 0.79361I	-17.0065 + 3.3317I	-8.93825 - 2.36228I
b = 0.763395 + 0.134450I		
u = 0.05818 + 1.69128I		
a = -0.049955 - 0.517149I	-12.86900 + 0.50362I	-2.40898 + 0.61717I
b = -1.06411 + 0.94581I		
u = 0.05818 + 1.69128I		
a = 0.094911 - 0.448107I	-17.0065 + 3.3317I	-8.93825 - 2.36228I
b = 1.41147 + 1.96688I		
u = 0.05818 - 1.69128I		
a = 0.536946 - 0.647646I	-12.86900 - 0.50362I	-2.40898 - 0.61717I
b = 0.871737 + 0.114577I		
u = 0.05818 - 1.69128I		
a = -0.578917 + 1.066270I	-12.8690 - 6.1599I	-2.40898 + 5.34173I
b = -0.945552 - 0.820310I		
u = 0.05818 - 1.69128I		
a = 0.465240 - 0.575080I	-12.8690 - 6.1599I	-2.40898 + 5.34173I
b = 1.76968 + 1.04115I		
u = 0.05818 - 1.69128I		
a = 1.19026 + 0.79361I	-17.0065 - 3.3317I	-8.93825 + 2.36228I
b = 0.763395 - 0.134450I		
u = 0.05818 - 1.69128I		
a = -0.049955 + 0.517149I	-12.86900 - 0.50362I	-2.40898 - 0.61717I
b = -1.06411 - 0.94581I		
u = 0.05818 - 1.69128I		
a = 0.094911 + 0.448107I	-17.0065 - 3.3317I	-8.93825 + 2.36228I
b = 1.41147 - 1.96688I		

$$\begin{aligned} \text{III. } I_3^u &= \langle -u^9 - 6u^7 - 12u^5 - 9u^3 - u^2 + b - 2u - 1, \ u^9 - u^8 + \dots + a + \\ 6u, \ u^{10} + 7u^8 + 17u^6 + 17u^4 + u^3 + 7u^2 + 2u + 1 \rangle \end{aligned}$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u^{9} + u^{8} - 7u^{7} + 6u^{6} - 17u^{5} + 12u^{4} - 17u^{3} + 8u^{2} - 6u \\ u^{9} + 6u^{7} + 12u^{5} + 9u^{3} + u^{2} + 2u + 1 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} u^{9} + 7u^{7} - u^{6} + 17u^{5} - 5u^{4} + 17u^{3} - 6u^{2} + 7u - 1 \\ -u^{7} - 5u^{5} - 7u^{3} - 2u - 1 \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} u^{8} - u^{7} + 6u^{6} - 5u^{5} + 12u^{4} - 8u^{3} + 9u^{2} - 4u + 1 \\ u^{9} + 6u^{7} + 12u^{5} + 9u^{3} + u^{2} + 2u + 1 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u^{2} + 1 \\ -u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{5} + 3u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{3} - 2u \\ u^{5} + 3u^{3} + u \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$u^9 - u^8 + 9u^7 - 9u^6 + 27u^5 - 23u^4 + 30u^3 - 17u^2 + 10u - 4$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing		
c_1, c_8	$u^{10} + 5u^8 - u^7 + 10u^6 - 3u^5 + 9u^4 - 2u^3 + 4u^2 - u + 1$		
c_2, c_6	$u^{10} + 5u^8 + u^7 + 10u^6 + 3u^5 + 9u^4 + 2u^3 + 4u^2 + u + 1$		
<i>c</i> ₃	$u^{10} + 3u^9 + 4u^8 + u^7 - 3u^6 - 2u^5 + 3u^4 + 3u^3 + 1$		
c_4, c_5	$u^{10} + 7u^8 + 17u^6 + 17u^4 + u^3 + 7u^2 + 2u + 1$		
c_7, c_{11}	$u^{10} - u^9 - u^8 + u^7 + 3u^6 - u^5 - u^4 + u^2 - 2u + 1$		
c_9, c_{10}	$u^{10} + 7u^8 + 17u^6 + 17u^4 - u^3 + 7u^2 - 2u + 1$		

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing		
c_1, c_2, c_6 c_8	$y^{10} + 10y^9 + \dots + 7y + 1$		
c_3	$y^{10} - y^9 + 4y^8 - 7y^7 + 19y^6 - 26y^5 + 29y^4 - 15y^3 + 6y^2 + 1$		
c_4, c_5, c_9 c_{10}	$y^{10} + 14y^9 + \dots + 10y + 1$		
c_7, c_{11}	$y^{10} - 3y^9 + 9y^8 - 11y^7 + 15y^6 - 11y^5 + 9y^4 - y^2 - 2y + 1$		

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.383617 + 0.756267I		
a = -0.885005 - 0.122148I	-6.79753 + 1.39846I	-1.69965 - 0.73977I
b = -0.247127 - 0.716158I		
u = 0.383617 - 0.756267I		
a = -0.885005 + 0.122148I	-6.79753 - 1.39846I	-1.69965 + 0.73977I
b = -0.247127 + 0.716158I		
u = -0.177185 + 1.148900I		
a = 0.170801 + 0.598642I	-4.71292 + 1.66512I	-5.84532 - 3.74292I
b = -0.718042 + 0.090163I		
u = -0.177185 - 1.148900I		
a = 0.170801 - 0.598642I	-4.71292 - 1.66512I	-5.84532 + 3.74292I
b = -0.718042 - 0.090163I		
u = -0.06987 + 1.53463I		
a = -0.477120 + 0.831031I	-8.56067 - 4.15690I	-5.16970 + 5.09058I
b = -1.24199 - 0.79027I		
u = -0.06987 - 1.53463I		
a = -0.477120 - 0.831031I	-8.56067 + 4.15690I	-5.16970 - 5.09058I
b = -1.24199 + 0.79027I		
u = -0.211333 + 0.326245I		
a = -0.32866 - 2.86378I	-2.02504 - 3.13412I	-3.07437 + 5.25222I
b = 1.003750 + 0.497986I		
u = -0.211333 - 0.326245I		
a = -0.32866 + 2.86378I	-2.02504 + 3.13412I	-3.07437 - 5.25222I
b = 1.003750 - 0.497986I		
u = 0.07477 + 1.69713I		
a = 0.519988 - 0.391559I	-15.7373 + 3.0886I	-1.21096 - 0.80248I
b = 0.703408 + 0.853209I		
u = 0.07477 - 1.69713I		
a = 0.519988 + 0.391559I	-15.7373 - 3.0886I	-1.21096 + 0.80248I
b = 0.703408 - 0.853209I		

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_8	$(u^{10} + 5u^8 - u^7 + 10u^6 - 3u^5 + 9u^4 - 2u^3 + 4u^2 - u + 1)$ $\cdot (u^{18} + 10u^{16} + \dots - 2u + 1)(u^{30} + u^{29} + \dots + 312u + 43)$
c_2, c_6	$(u^{10} + 5u^8 + u^7 + 10u^6 + 3u^5 + 9u^4 + 2u^3 + 4u^2 + u + 1)$ $\cdot (u^{18} + 10u^{16} + \dots - 2u + 1)(u^{30} + u^{29} + \dots + 312u + 43)$
c_3	$(u^{3} + u^{2} - 1)^{10}(u^{10} + 3u^{9} + 4u^{8} + u^{7} - 3u^{6} - 2u^{5} + 3u^{4} + 3u^{3} + 1)$ $\cdot (u^{18} - 16u^{17} + \dots - 336u + 32)$
c_4,c_5	$(u^{5} + u^{4} + 4u^{3} + 3u^{2} + 3u + 1)^{6}$ $\cdot (u^{10} + 7u^{8} + 17u^{6} + 17u^{4} + u^{3} + 7u^{2} + 2u + 1)$ $\cdot (u^{18} - 7u^{17} + \dots - 76u + 8)$
c_7, c_{11}	$(u^{10} - u^9 + \dots - 2u + 1)(u^{18} + u^{17} + \dots - u + 1)$ $\cdot (u^{30} + 3u^{29} + \dots + 54u + 77)$
c_9, c_{10}	$(u^{5} + u^{4} + 4u^{3} + 3u^{2} + 3u + 1)^{6}$ $\cdot (u^{10} + 7u^{8} + 17u^{6} + 17u^{4} - u^{3} + 7u^{2} - 2u + 1)$ $\cdot (u^{18} - 7u^{17} + \dots - 76u + 8)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6 c_8	$(y^{10} + 10y^9 + \dots + 7y + 1)(y^{18} + 20y^{17} + \dots - 10y + 1)$ $\cdot (y^{30} + 27y^{29} + \dots - 46776y + 1849)$
c_3	$(y^{3} - y^{2} + 2y - 1)^{10}$ $\cdot (y^{10} - y^{9} + 4y^{8} - 7y^{7} + 19y^{6} - 26y^{5} + 29y^{4} - 15y^{3} + 6y^{2} + 1)$ $\cdot (y^{18} - 2y^{17} + \dots + 1280y + 1024)$
c_4, c_5, c_9 c_{10}	$((y^5 + 7y^4 + 16y^3 + 13y^2 + 3y - 1)^6)(y^{10} + 14y^9 + \dots + 10y + 1)$ $\cdot (y^{18} + 21y^{17} + \dots - 80y + 64)$
c_7, c_{11}	$(y^{10} - 3y^9 + 9y^8 - 11y^7 + 15y^6 - 11y^5 + 9y^4 - y^2 - 2y + 1)$ $\cdot (y^{18} - 9y^{17} + \dots + 5y + 1)(y^{30} - 9y^{29} + \dots - 103632y + 5929)$