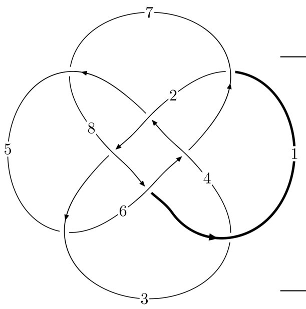
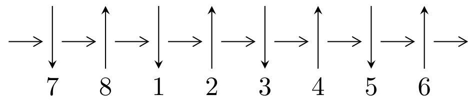
8_{18} $(K8a_{12})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$1,7 \xrightarrow[c_1]{} 2,4 \xrightarrow[c_4]{} 5 \xrightarrow[c_3]{} 3 \xrightarrow[c_6]{} 6 \xrightarrow[c_8]{} 8 \twoheadrightarrow c_2, c_5, c_7$$

Ideals for irreducible components[2] of $X_{\mathbf{par}}$

$$
\begin{aligned}
I_1^u &= \langle b+u,\ -u^3+u^2+a-2,\ u^4-2u^3+u^2+2u-1\rangle \\
I_2^u &= \langle -u^3+2u^2+b-3u+1,\ 4u^3-9u^2+3a+15u-9,\ u^4-3u^3+6u^2-6u+3\rangle \\
I_3^u &= \langle b+a+u+1,\ a^2+au+1,\ u^2+u+1\rangle \\
I_4^u &= \langle b+u,\ 2u^3+4u^2+a+3u-2,\ u^4+u^3-2u+1\rangle \\
I_5^u &= \langle -u^3-2u^2+b-2u+1,\ 2u^3+3u^2+a+2u-3,\ u^4+u^3-2u+1\rangle \\
I_6^u &= \langle b+u,\ a-u,\ u^2+u+1\rangle \\
I_7^u &= \langle b,\ a-1,\ u-1\rangle \\
I_8^u &= \langle b-1,\ a,\ u+1\rangle \\
I_9^u &= \langle b-1,\ a-1,\ u+1\rangle
\end{aligned}
$$

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

* 10 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 26 representations.

[1] The 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. $\boldsymbol{I_1^u = \langle b+u,\ -u^3+u^2+a-2,\ u^4-2u^3+u^2+2u-1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^3-u^2+2 \\ -u \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 1 \\ -u^3+2u^2-1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} u^3-u^2-u+2 \\ -u \end{pmatrix}$$
$$a_6 = \begin{pmatrix} -u^3+2u^2-2 \\ u^3-u^2+1 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -u \\ -u^2+1 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 4u^3-4u^2+4u+4$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5 c_7	$u^4 - 2u^3 + u^2 + 2u - 1$
c_2, c_4, c_6 c_8	$u^4 + 2u^3 + u^2 - 2u - 1$

(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	$y^4 - 2y^3 + 7y^2 - 6y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.883204$ $a=\quad 0.531010$ $b=\quad 0.883204$	-1.71901	-5.40880
$u=\quad 0.468990$ $a=\quad 1.88320$ $b=-0.468990$	1.71901	5.40880
$u=\quad 1.20711+0.97832I$ $a=-0.207107+0.978318I$ $b=-1.20711-0.97832I$	$-12.3509I$	$0.+7.82655I$
$u=\quad 1.20711-0.97832I$ $a=-0.207107-0.978318I$ $b=-1.20711+0.97832I$	$12.3509I$	$0.-7.82655I$

II.

$$\boldsymbol{I_2^u = \langle -u^3+2u^2+b-3u+1,\ 4u^3-9u^2+3a+15u-9,\ u^4-3u^3+6u^2-6u+3\rangle}$$

(i) Arc colorings

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

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

$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -\frac{4}{3}u^3 + 3u^2 - 5u + 3 \\ u^3 - 2u^2 + 3u - 1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -\frac{1}{3}u^3 - 1 \\ -1 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -\frac{1}{3}u^3 + u^2 - 2u + 2 \\ u^3 - 2u^2 + 3u - 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} \frac{4}{3}u^3 - 2u^2 + 4u - 1 \\ -u^2 + 2u - 2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -\frac{2}{3}u^3 + u^2 - 2u + 1 \\ -u^3 + 2u^2 - 2u + 1 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 8u^3 - 16u^2 + 24u - 6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^4 - 3u^3 + 6u^2 - 6u + 3$
c_2, c_4, c_6 c_8	$u^4 - u^3 + 2u + 1$
c_3, c_7	$(u^2 + u + 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^4 + 3y^3 + 6y^2 + 9$
c_2, c_4, c_6 c_8	$y^4 - y^3 + 6y^2 - 4y + 1$
c_3, c_7	$(y^2 + y + 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.851597 + 0.632502I$ $a = 0.25679 - 1.42811I$ $b = 0.500000 + 0.866025I$	$1.64493 - 4.05977I$	$6.00000 + 6.92820I$
$u = 0.851597 - 0.632502I$ $a = 0.25679 + 1.42811I$ $b = 0.500000 - 0.866025I$	$1.64493 + 4.05977I$	$6.00000 - 6.92820I$
$u = 0.64840 + 1.49853I$ $a = -0.256789 + 0.303939I$ $b = 0.500000 - 0.866025I$	$1.64493 + 4.05977I$	$6.00000 - 6.92820I$
$u = 0.64840 - 1.49853I$ $a = -0.256789 - 0.303939I$ $b = 0.500000 + 0.866025I$	$1.64493 - 4.05977I$	$6.00000 + 6.92820I$

III. $\boldsymbol{I^u_3 = \langle b+a+u+1,\ a^2+au+1,\ u^2+u+1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ -u-1 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} a \\ -a-u-1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} au+a-u-1 \\ -1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u-1 \\ -a-u-1 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} -au-a+u \\ au \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -2au-a \\ -a+u+1 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -8u+2$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$(u^2+u+1)^2$
c_2, c_4, c_6 c_8	u^4-u^3+2u+1
c_3, c_7	$u^4-3u^3+6u^2-6u+3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^2+y+1)^2$
c_2, c_4, c_6 c_8	$y^4-y^3+6y^2-4y+1$
c_3, c_7	$y^4+3y^3+6y^2+9$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.500000 + 0.866025I$ $a = 0.148403 + 0.632502I$ $b = -0.64840 - 1.49853I$	$1.64493 + 4.05977I$	$6.00000 - 6.92820I$
$u = -0.500000 + 0.866025I$ $a = 0.35160 - 1.49853I$ $b = -0.851597 + 0.632502I$	$1.64493 + 4.05977I$	$6.00000 - 6.92820I$
$u = -0.500000 - 0.866025I$ $a = 0.148403 - 0.632502I$ $b = -0.64840 + 1.49853I$	$1.64493 - 4.05977I$	$6.00000 + 6.92820I$
$u = -0.500000 - 0.866025I$ $a = 0.35160 + 1.49853I$ $b = -0.851597 - 0.632502I$	$1.64493 - 4.05977I$	$6.00000 + 6.92820I$

IV. $\boldsymbol{I_4^u = \langle b+u,\ 2u^3+4u^2+a+3u-2,\ u^4+u^3-2u+1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -2u^3-4u^2-3u+2 \\ -u \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -u^3-2u^2-2u \\ -1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -2u^3-4u^2-4u+2 \\ -u \end{pmatrix}$$
$$a_6 = \begin{pmatrix} -5u^3-8u^2-4u+8 \\ -u^3-2u^2-u+2 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -4u^3-7u^2-5u+5 \\ -u^3-2u^2-u+1 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 8u^3+16u^2+8u-18$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5 c_7	$u^4 + u^3 - 2u + 1$
c_2, c_6	$u^4 + 3u^3 + 6u^2 + 6u + 3$
c_4, c_8	$(u^2 - u + 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_5 c_7	$y^4 - y^3 + 6y^2 - 4y + 1$
c_2, c_6	$y^4 + 3y^3 + 6y^2 + 9$
c_4, c_8	$(y^2 + y + 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_4^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.621964 + 0.187730I$ $a = -1.62196 - 1.91978I$ $b = -0.621964 - 0.187730I$	$-1.64493 - 4.05977I$	$-6.00000 + 6.92820I$
$u = 0.621964 - 0.187730I$ $a = -1.62196 + 1.91978I$ $b = -0.621964 + 0.187730I$	$-1.64493 + 4.05977I$	$-6.00000 - 6.92820I$
$u = -1.12196 + 1.05376I$ $a = 0.121964 + 0.678295I$ $b = 1.12196 - 1.05376I$	$-1.64493 + 4.05977I$	$-6.00000 - 6.92820I$
$u = -1.12196 - 1.05376I$ $a = 0.121964 - 0.678295I$ $b = 1.12196 + 1.05376I$	$-1.64493 - 4.05977I$	$-6.00000 + 6.92820I$

V. $I^u_5 = \langle -u^3 - 2u^2 + b - 2u + 1,\ 2u^3 + 3u^2 + a + 2u - 3,\ u^4 + u^3 - 2u + 1 \rangle$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -2u^3 - 3u^2 - 2u + 3 \\ u^3 + 2u^2 + 2u - 1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 1 \\ 2u^3 + 4u^2 + 2u - 2 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u^3 - u^2 + 2 \\ u^3 + 2u^2 + 2u - 1 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} u^3 + 2u^2 + 2u - 1 \\ u^3 + u^2 + u - 2 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -u \\ -2u^3 - 2u^2 - u + 2 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 8u^3 + 16u^2 + 8u - 18$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5 c_7	$u^4 + u^3 - 2u + 1$
c_2, c_6	$(u^2 - u + 1)^2$
c_4, c_8	$u^4 + 3u^3 + 6u^2 + 6u + 3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_5 c_7	$y^4 - y^3 + 6y^2 - 4y + 1$
c_2, c_6	$(y^2 + y + 1)^2$
c_4, c_8	$y^4 + 3y^3 + 6y^2 + 9$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_5^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.621964 + 0.187730I$ $a = 0.35160 - 1.49853I$ $b = 1.12196 + 1.05376I$	$-1.64493 - 4.05977I$	$-6.00000 + 6.92820I$
$u = 0.621964 - 0.187730I$ $a = 0.35160 + 1.49853I$ $b = 1.12196 - 1.05376I$	$-1.64493 + 4.05977I$	$-6.00000 - 6.92820I$
$u = -1.12196 + 1.05376I$ $a = 0.148403 - 0.632502I$ $b = -0.621964 + 0.187730I$	$-1.64493 + 4.05977I$	$-6.00000 - 6.92820I$
$u = -1.12196 - 1.05376I$ $a = 0.148403 + 0.632502I$ $b = -0.621964 - 0.187730I$	$-1.64493 - 4.05977I$	$-6.00000 + 6.92820I$

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

(i) Arc colorings

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

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

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

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

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

$$a_3 = \begin{pmatrix} 0 \\ -u \end{pmatrix}$$

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

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

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -8u - 4$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5 c_7	$u^2 + u + 1$
c_2, c_4, c_6 c_8	$u^2 - u + 1$

(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	$y^2 + y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_6^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.500000+0.866025I$ $a=-0.500000+0.866025I$ $b=\ \ 0.500000-0.866025I$	$4.05977I$	$0.-6.92820I$
$u=-0.500000-0.866025I$ $a=-0.500000-0.866025I$ $b=\ \ 0.500000+0.866025I$	$-4.05977I$	$0.+6.92820I$

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

(i) Arc colorings

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

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

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

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

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

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

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

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

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_4 c_5, c_6, c_8	$u - 1$
c_3, c_7	u

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4 c_5, c_6, c_8	$y - 1$
c_3, c_7	y

(vi) Complex Volumes and Cusp Shapes

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

VIII. $I_8^u = \langle b-1,\ a,\ u+1\rangle$

(i) Arc colorings

$$a_1 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_7 = \begin{pmatrix}0\\-1\end{pmatrix}$$
$$a_2 = \begin{pmatrix}1\\1\end{pmatrix}$$
$$a_4 = \begin{pmatrix}0\\1\end{pmatrix}$$
$$a_5 = \begin{pmatrix}1\\2\end{pmatrix}$$
$$a_3 = \begin{pmatrix}1\\1\end{pmatrix}$$
$$a_6 = \begin{pmatrix}0\\-1\end{pmatrix}$$
$$a_8 = \begin{pmatrix}1\\1\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_4 c_5, c_7, c_8	$u + 1$
c_2, c_6	u

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_4 c_5, c_7, c_8	$y-1$
c_2, c_6	y

(vi) Complex Volumes and Cusp Shapes

Solutions to I_8^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.00000$ $a = 0$ $b = 1.00000$	-1.64493	-6.00000

IX. $I_9^u = \langle b-1,\ a-1,\ u+1 \rangle$

(i) Arc colorings

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

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

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

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

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

$$a_3 = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$

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

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

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_3 c_5, c_6, c_7	$u+1$
c_4, c_8	u

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_3 c_5, c_6, c_7	$y-1$
c_4, c_8	y

(vi) Complex Volumes and Cusp Shapes

Solutions to I_9^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.00000$ $a = \ \ 1.00000$ $b = \ \ 1.00000$	-1.64493	-6.00000

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

(i) Arc colorings

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

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

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

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

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

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

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

$$a_8 = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$

(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
c_2, c_3, c_4 c_6, c_7, c_8	$u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	y
c_2, c_3, c_4 c_6, c_7, c_8	$y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^v	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$v = 1.00000$ $a = 0$ $b = -1.00000$	1.64493	6.00000

XI. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5 c_7	$u(u-1)(u+1)^2(u^2+u+1)^3(u^4-3u^3+6u^2-6u+3)$ $\cdot\,(u^4-2u^3+u^2+2u-1)(u^4+u^3-2u+1)^2$
c_2, c_4, c_6 c_8	$u(u-1)^2(u+1)(u^2-u+1)^3(u^4-u^3+2u+1)^2$ $\cdot\,(u^4+2u^3+u^2-2u-1)(u^4+3u^3+6u^2+6u+3)$

XII. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_3 c_4, c_5, c_6 c_7, c_8	$y(y-1)^3(y^2+y+1)^3(y^4-2y^3+7y^2-6y+1)$ $\cdot\,(y^4-y^3+6y^2-4y+1)^2(y^4+3y^3+6y^2+9)$