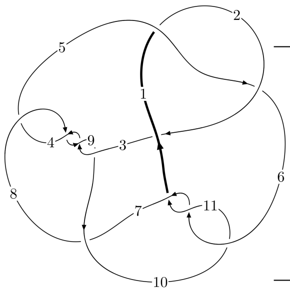
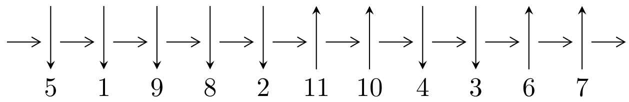
$11a_{165}$ $(K11a_{165})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$6{,}10 \xrightarrow[c_{10}]{} 11 \xrightarrow[c_6]{} 7 \xrightarrow[c_7]{} 8 \xrightarrow[c_{11}]{} 1{,}3 \xrightarrow[c_2]{} 2 \xrightarrow[c_5]{} 5 \xrightarrow[c_9]{} 9 \xrightarrow[c_3]{} 4 \twoheadrightarrow c_1, c_4, c_8$$

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

$$\begin{aligned}
I_1^u &= \langle -63586u^{30} - 96933u^{29} + \cdots + 270694b + 252865, \\
&\quad -172973u^{30} + 5647u^{29} + \cdots + 406041a + 576964,\ u^{31} - 2u^{30} + \cdots + 7u + 3\rangle \\
I_2^u &= \langle -u^6 + 2u^4 - u^2 + b,\ u^4 - u^2 + a + 1,\ u^{12} - 4u^{10} - u^9 + 6u^8 + 3u^7 - 3u^6 - 3u^5 - u^4 + u^3 + u^2 + 1\rangle \\
I_3^u &= \langle b^2 + 2,\ a - 1,\ u + 1\rangle \\
I_4^u &= \langle b,\ a - 1,\ u - 1\rangle
\end{aligned}$$

* 4 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 46 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.
$I_1^u = \langle -6.36\times10^4 u^{30} - 9.69\times10^4 u^{29} + \cdots + 2.71\times10^5 b + 2.53\times10^5,\ -1.73\times10^5 u^{30} + 5647u^{29} + \cdots + 4.06\times10^5 a + 5.77\times10^5,\ u^{31} - 2u^{30} + \cdots + 7u + 3\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}1\\-u^2\end{pmatrix}$$
$$a_7 = \begin{pmatrix}u\\-u^3+u\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-u^3+2u\\-u^3+u\end{pmatrix}$$
$$a_1 = \begin{pmatrix}-u^2+1\\u^4-2u^2\end{pmatrix}$$
$$a_3 = \begin{pmatrix}0.425999u^{30} - 0.0139075u^{29} + \cdots + 0.292554u - 1.42095\\0.234900u^{30} + 0.358091u^{29} + \cdots - 0.536610u - 0.934136\end{pmatrix}$$
$$a_2 = \begin{pmatrix}0.0212540u^{30} + 0.251935u^{29} + \cdots + 3.63359u - 1.34469\\0.698604u^{30} + 0.00781325u^{29} + \cdots - 4.34020u - 2.37215\end{pmatrix}$$
$$a_5 = \begin{pmatrix}-0.0388902u^{30} - 0.177556u^{29} + \cdots - 1.16014u - 2.39710\\1.11058u^{30} - 1.37314u^{29} + \cdots - 6.76891u - 2.03205\end{pmatrix}$$
$$a_9 = \begin{pmatrix}-0.490431u^{30} + 0.627566u^{29} + \cdots - 2.92349u + 0.473429\\-0.126604u^{30} - 0.0106726u^{29} + \cdots + 0.479597u + 0.823236\end{pmatrix}$$
$$a_4 = \begin{pmatrix}0.127981u^{30} - 0.621792u^{29} + \cdots - 1.70878u - 2.89597\\0.449559u^{30} - 0.465108u^{29} + \cdots - 4.73911u - 1.82622\end{pmatrix}$$
$$a_4 = \begin{pmatrix}0.127981u^{30} - 0.621792u^{29} + \cdots - 1.70878u - 2.89597\\0.449559u^{30} - 0.465108u^{29} + \cdots - 4.73911u - 1.82622\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -\frac{36729}{135347}u^{30} + \frac{438694}{135347}u^{29} + \cdots - \frac{659989}{135347}u - \frac{1662732}{135347}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{31} + 2u^{30} + \cdots + 3u + 3$
c_2	$u^{31} + 14u^{30} + \cdots + 57u + 9$
c_3, c_4, c_8 c_9	$u^{31} - 2u^{30} + \cdots - 4u + 2$
c_6, c_{10}, c_{11}	$u^{31} - 2u^{30} + \cdots + 7u + 3$
c_7	$u^{31} + 6u^{30} + \cdots + 480u + 144$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{31} - 14y^{30} + \cdots + 57y - 9$
c_2	$y^{31} + 10y^{30} + \cdots - 927y - 81$
c_3, c_4, c_8 c_9	$y^{31} + 34y^{30} + \cdots + 8y - 4$
c_6, c_{10}, c_{11}	$y^{31} - 30y^{30} + \cdots + 73y - 9$
c_7	$y^{31} + 6y^{30} + \cdots + 340992y - 20736$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.747967 + 0.552318I$ $a = -0.713528 - 0.387808I$ $b = 0.02331 - 1.55614I$	$8.03531 - 1.33136I$	$3.69839 + 3.67384I$
$u = -0.747967 - 0.552318I$ $a = -0.713528 + 0.387808I$ $b = 0.02331 + 1.55614I$	$8.03531 + 1.33136I$	$3.69839 - 3.67384I$
$u = -0.243783 + 0.874135I$ $a = 1.32514 + 1.20394I$ $b = 0.15566 + 1.56441I$	$4.49002 - 8.13226I$	$-1.22552 + 6.19776I$
$u = -0.243783 - 0.874135I$ $a = 1.32514 - 1.20394I$ $b = 0.15566 - 1.56441I$	$4.49002 + 8.13226I$	$-1.22552 - 6.19776I$
$u = 0.187925 + 0.787047I$ $a = 1.52076 - 0.52806I$ $b = 0.536373 - 0.593565I$	$-2.74305 + 5.61846I$	$-5.03431 - 7.58458I$
$u = 0.187925 - 0.787047I$ $a = 1.52076 + 0.52806I$ $b = 0.536373 + 0.593565I$	$-2.74305 - 5.61846I$	$-5.03431 + 7.58458I$
$u = 1.291670 + 0.135737I$ $a = 0.669274 + 0.188581I$ $b = 0.616280 + 0.162193I$	$3.07624 + 0.70891I$	$0.467031 + 1.080424I$
$u = 1.291670 - 0.135737I$ $a = 0.669274 - 0.188581I$ $b = 0.616280 - 0.162193I$	$3.07624 - 0.70891I$	$0.467031 - 1.080424I$
$u = -1.295540 + 0.167103I$ $a = -0.144945 + 0.148783I$ $b = -0.186471 + 1.311270I$	$6.17087 - 2.05965I$	$3.01805 + 3.45931I$
$u = -1.295540 - 0.167103I$ $a = -0.144945 - 0.148783I$ $b = -0.186471 - 1.311270I$	$6.17087 + 2.05965I$	$3.01805 - 3.45931I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.110837 + 0.674662I$ $a = 1.69961 - 0.29549I$ $b = 0.564530 - 0.355378I$	$-3.44246 - 1.82697I$	$-7.90377 + 0.75879I$
$u = -0.110837 - 0.674662I$ $a = 1.69961 + 0.29549I$ $b = 0.564530 + 0.355378I$	$-3.44246 + 1.82697I$	$-7.90377 - 0.75879I$
$u = 0.539016 + 0.347969I$ $a = -0.483262 + 0.499206I$ $b = -0.056165 + 0.591866I$	$0.79951 + 1.42577I$	$2.59856 - 5.78981I$
$u = 0.539016 - 0.347969I$ $a = -0.483262 - 0.499206I$ $b = -0.056165 - 0.591866I$	$0.79951 - 1.42577I$	$2.59856 + 5.78981I$
$u = 1.336820 + 0.271979I$ $a = -0.762109 - 0.353439I$ $b = -0.693697 - 0.302370I$	$1.12658 + 5.26550I$	$-2.04896 - 3.53729I$
$u = 1.336820 - 0.271979I$ $a = -0.762109 + 0.353439I$ $b = -0.693697 + 0.302370I$	$1.12658 - 5.26550I$	$-2.04896 + 3.53729I$
$u = -1.365240 + 0.016357I$ $a = 0.375335 - 0.295499I$ $b = 0.219883 + 0.980437I$	$6.70945 - 2.28480I$	$5.08423 + 3.97462I$
$u = -1.365240 - 0.016357I$ $a = 0.375335 + 0.295499I$ $b = 0.219883 - 0.980437I$	$6.70945 + 2.28480I$	$5.08423 - 3.97462I$
$u = -1.357540 + 0.242005I$ $a = 1.095790 - 0.491084I$ $b = 0.504728 + 0.697564I$	$4.64430 - 4.47443I$	$3.19401 + 4.68893I$
$u = -1.357540 - 0.242005I$ $a = 1.095790 + 0.491084I$ $b = 0.504728 - 0.697564I$	$4.64430 + 4.47443I$	$3.19401 - 4.68893I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.37741 + 0.32461I$ $a = -1.256260 + 0.402763I$ $b = -0.605451 - 0.666470I$	$2.21391 - 9.63102I$	$-0.35492 + 8.36099I$
$u = -1.37741 - 0.32461I$ $a = -1.256260 - 0.402763I$ $b = -0.605451 + 0.666470I$	$2.21391 + 9.63102I$	$-0.35492 - 8.36099I$
$u = -0.064733 + 0.540211I$ $a = 2.31818 + 1.38359I$ $b = 0.10758 + 1.45454I$	$2.33792 - 0.40564I$	$-4.75380 - 0.07204I$
$u = -0.064733 - 0.540211I$ $a = 2.31818 - 1.38359I$ $b = 0.10758 - 1.45454I$	$2.33792 + 0.40564I$	$-4.75380 + 0.07204I$
$u = 1.42913 + 0.28971I$ $a = 1.57857 + 0.64636I$ $b = 0.14880 - 1.59912I$	$12.4063 + 6.9101I$	$5.26522 - 3.37631I$
$u = 1.42913 - 0.28971I$ $a = 1.57857 - 0.64636I$ $b = 0.14880 + 1.59912I$	$12.4063 - 6.9101I$	$5.26522 + 3.37631I$
$u = 1.41950 + 0.35977I$ $a = -1.73304 - 0.34897I$ $b = -0.18574 + 1.59084I$	$9.7790 + 12.5729I$	$2.31989 - 7.10826I$
$u = 1.41950 - 0.35977I$ $a = -1.73304 + 0.34897I$ $b = -0.18574 - 1.59084I$	$9.7790 - 12.5729I$	$2.31989 + 7.10826I$
$u = 1.50305 + 0.05165I$ $a = 0.296170 + 1.110440I$ $b = 0.02670 - 1.64323I$	$15.6775 + 2.9643I$	$6.12833 - 2.71385I$
$u = 1.50305 - 0.05165I$ $a = 0.296170 - 1.110440I$ $b = 0.02670 + 1.64323I$	$15.6775 - 2.9643I$	$6.12833 + 2.71385I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.288107$ $a = -2.23806$ $b = -0.352652$	-1.09849	-10.9050

II. $\boldsymbol{I_2^u = \langle -u^6 + 2u^4 - u^2 + b,\ u^4 - u^2 + a + 1,\ u^{12} - 4u^{10} + \cdots + u^2 + 1 \rangle}$

(i) Arc colorings

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

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

$$a_{11} = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u \\ -u^3 + u \end{pmatrix}$$

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

$$a_1 = \begin{pmatrix} -u^2 + 1 \\ u^4 - 2u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^4 + u^2 - 1 \\ u^6 - 2u^4 + u^2 \end{pmatrix}$$

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

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

$$a_9 = \begin{pmatrix} u^{10} - 3u^8 + 4u^6 - 3u^4 + u^2 + 1 \\ -u^9 + 3u^7 + u^6 - 3u^5 - 2u^4 + u^3 + u^2 + 1 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -u^9 + 4u^7 - 5u^5 + 2u^3 + u \\ -u^9 + 3u^7 - 3u^5 + u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -u^9 + 4u^7 - 5u^5 + 2u^3 + u \\ -u^9 + 3u^7 - 3u^5 + u \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -4u^6 + 8u^4 + 4u^3 - 4u^2 - 4u - 2$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5, c_6 c_{10}, c_{11}	$u^{12} - 4u^{10} - u^9 + 6u^8 + 3u^7 - 3u^6 - 3u^5 - u^4 + u^3 + u^2 + 1$
c_2	$u^{12} + 8u^{11} + \cdots - 2u + 1$
c_3, c_4, c_8 c_9	$(u^4 + u^3 + 3u^2 + 2u + 1)^3$
c_7	$(u^4 + u^3 + u^2 + 1)^3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5, c_6 c_{10}, c_{11}	$y^{12} - 8y^{11} + \cdots + 2y + 1$
c_2	$y^{12} - 8y^{11} + \cdots - 6y + 1$
c_3, c_4, c_8 c_9	$(y^4 + 5y^3 + 7y^2 + 2y + 1)^3$
c_7	$(y^4 + y^3 + 3y^2 + 2y + 1)^3$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.021730 + 0.359746I$ $a = -0.381408 - 0.609431I$ $b = -0.395123 - 0.506844I$	$-0.21101 - 1.41510I$	$-1.82674 + 4.90874I$
$u = 1.021730 - 0.359746I$ $a = -0.381408 + 0.609431I$ $b = -0.395123 + 0.506844I$	$-0.21101 + 1.41510I$	$-1.82674 - 4.90874I$
$u = -0.999134 + 0.532546I$ $a = 0.336375 + 0.456876I$ $b = -0.10488 + 1.55249I$	$6.79074 + 3.16396I$	$1.82674 - 2.56480I$
$u = -0.999134 - 0.532546I$ $a = 0.336375 - 0.456876I$ $b = -0.10488 - 1.55249I$	$6.79074 - 3.16396I$	$1.82674 + 2.56480I$
$u = -0.333261 + 0.745439I$ $a = -1.39544 - 0.93867I$ $b = -0.10488 - 1.55249I$	$6.79074 - 3.16396I$	$1.82674 + 2.56480I$
$u = -0.333261 - 0.745439I$ $a = -1.39544 + 0.93867I$ $b = -0.10488 + 1.55249I$	$6.79074 + 3.16396I$	$1.82674 - 2.56480I$
$u = -1.199580 + 0.220395I$ $a = -1.26326 + 0.94165I$ $b = -0.395123 - 0.506844I$	$-0.21101 - 1.41510I$	$-1.82674 + 4.90874I$
$u = -1.199580 - 0.220395I$ $a = -1.26326 - 0.94165I$ $b = -0.395123 + 0.506844I$	$-0.21101 + 1.41510I$	$-1.82674 - 4.90874I$
$u = 1.332400 + 0.212894I$ $a = -1.94094 - 1.39555I$ $b = -0.10488 + 1.55249I$	$6.79074 + 3.16396I$	$1.82674 - 2.56480I$
$u = 1.332400 - 0.212894I$ $a = -1.94094 + 1.39555I$ $b = -0.10488 - 1.55249I$	$6.79074 - 3.16396I$	$1.82674 + 2.56480I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 0.177855 + 0.580141I$ $a = -1.355330 + 0.332215I$ $b = -0.395123 + 0.506844I$	$-0.21101 + 1.41510I$	$-1.82674 - 4.90874I$
$u = \quad 0.177855 - 0.580141I$ $a = -1.355330 - 0.332215I$ $b = -0.395123 - 0.506844I$	$-0.21101 - 1.41510I$	$-1.82674 + 4.90874I$

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

(i) Arc colorings

$$a_6 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 1 \\ b \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ b-1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -1 \\ -b \end{pmatrix}$$
$$a_9 = \begin{pmatrix} -b+1 \\ 2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -b-1 \\ -b \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -b-1 \\ -b \end{pmatrix}$$

(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_{10} c_{11}	$(u+1)^2$
c_3, c_4, c_8 c_9	u^2+2
c_5, c_6	$(u-1)^2$
c_7	u^2

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.00000$ $a = \quad 1.00000$ $b = \qquad 1.414210I$	4.93480	0
$u = -1.00000$ $a = \quad 1.00000$ $b = \qquad -1.414210I$	4.93480	0

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

(i) Arc colorings

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

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

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

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

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

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

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

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

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

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

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

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

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 0$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_4^u		$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=$	1.00000		
$a=$	1.00000	0	0
$b=$	0		

V. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u-1)(u+1)^2$ $\cdot(u^{12}-4u^{10}-u^9+6u^8+3u^7-3u^6-3u^5-u^4+u^3+u^2+1)$ $\cdot(u^{31}+2u^{30}+\cdots+3u+3)$
c_2	$((u+1)^3)(u^{12}+8u^{11}+\cdots-2u+1)(u^{31}+14u^{30}+\cdots+57u+9)$
c_3, c_4, c_8 c_9	$u(u^2+2)(u^4+u^3+\cdots+2u+1)^3(u^{31}-2u^{30}+\cdots-4u+2)$
c_5	$(u-1)^2(u+1)$ $\cdot(u^{12}-4u^{10}-u^9+6u^8+3u^7-3u^6-3u^5-u^4+u^3+u^2+1)$ $\cdot(u^{31}+2u^{30}+\cdots+3u+3)$
c_6	$(u-1)^2(u+1)$ $\cdot(u^{12}-4u^{10}-u^9+6u^8+3u^7-3u^6-3u^5-u^4+u^3+u^2+1)$ $\cdot(u^{31}-2u^{30}+\cdots+7u+3)$
c_7	$u^3(u^4+u^3+u^2+1)^3(u^{31}+6u^{30}+\cdots+480u+144)$
c_{10}, c_{11}	$(u-1)(u+1)^2$ $\cdot(u^{12}-4u^{10}-u^9+6u^8+3u^7-3u^6-3u^5-u^4+u^3+u^2+1)$ $\cdot(u^{31}-2u^{30}+\cdots+7u+3)$

VI. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$((y-1)^3)(y^{12}-8y^{11}+\cdots+2y+1)(y^{31}-14y^{30}+\cdots+57y-9)$
c_2	$((y-1)^3)(y^{12}-8y^{11}+\cdots-6y+1)(y^{31}+10y^{30}+\cdots-927y-81)$
c_3, c_4, c_8 c_9	$y(y+2)^2(y^4+5y^3+\cdots+2y+1)^3(y^{31}+34y^{30}+\cdots+8y-4)$
c_6, c_{10}, c_{11}	$((y-1)^3)(y^{12}-8y^{11}+\cdots+2y+1)(y^{31}-30y^{30}+\cdots+73y-9)$
c_7	$y^3(y^4+y^3+3y^2+2y+1)^3(y^{31}+6y^{30}+\cdots+340992y-20736)$