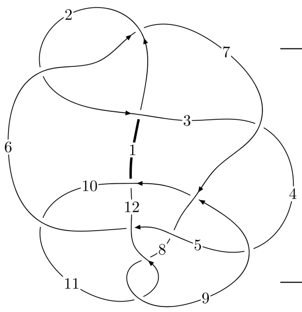
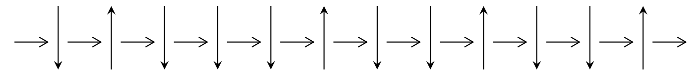
$12n_{0285}$ ($K12n_{0285}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$2,6 \xrightarrow[c_2]{} 3 \xrightarrow[c_6]{} 7 \xrightarrow[c_3]{} 4,10 \xrightarrow[c_{10}]{} 11 \xrightarrow[c_1]{} 1 \xrightarrow[c_9]{} 9 \xrightarrow[c_{12}]{} 12 \xrightarrow[c_5]{} 5 \xrightarrow[c_7]{} 8 \twoheadrightarrow c_4, c_8, c_{11}$$

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

$$I_1^u = \langle u^{16} + 4u^{15} + \cdots + b - 1,\ -u^{16} - 3u^{15} + \cdots + 2a - 3,\ u^{17} + 5u^{16} + \cdots - 3u - 2\rangle$$
$$I_2^u = \langle -u^9 + 2u^8 - 4u^7 + 4u^6 - 6u^5 + 4u^4 - 5u^3 + 2u^2 + b - 2u + 1,$$
$$-2u^9 + 3u^8 - 6u^7 + 4u^6 - 8u^5 + 4u^4 - 7u^3 + u^2 + a - 3u + 2,$$
$$u^{10} - 2u^9 + 4u^8 - 4u^7 + 6u^6 - 5u^5 + 6u^4 - 3u^3 + 3u^2 - 2u + 1\rangle$$
$$I_3^u = \langle -u^5 + u^4 + u^2a - au - u^2 + b - u + 1,\ u^5a + 2u^5 + u^4 - u^3 + a^2 + 3au + u^2 + 4u + 4,$$
$$u^6 - u^5 + u^4 + 2u^2 - u + 1\rangle$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 39 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.

$\boldsymbol{I_1^u = \langle u^{16}+4u^{15}+\cdots+b-1,\ -u^{16}-3u^{15}+\cdots+2a-3,\ u^{17}+5u^{16}+\cdots-3u-2\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_6 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_3 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$
$$a_7 = \begin{pmatrix}u\\u\end{pmatrix}$$
$$a_4 = \begin{pmatrix}u^4+u^2+1\\u^4\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}\frac{1}{2}u^{16}+\frac{3}{2}u^{15}+\cdots-\frac{1}{2}u+\frac{3}{2}\\-u^{16}-4u^{15}+\cdots-u+1\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}\frac{1}{2}u^{16}+\frac{3}{2}u^{15}+\cdots-\frac{1}{2}u+\frac{3}{2}\\u^{16}+3u^{15}+\cdots-3u-1\end{pmatrix}$$
$$a_1 = \begin{pmatrix}u^2+1\\-u^4\end{pmatrix}$$
$$a_9 = \begin{pmatrix}\frac{3}{2}u^{16}+\frac{15}{2}u^{15}+\cdots-\frac{7}{2}u-\frac{5}{2}\\2u^{15}+7u^{14}+\cdots-4u-3\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}\frac{3}{2}u^{16}+\frac{15}{2}u^{15}+\cdots-\frac{7}{2}u-\frac{5}{2}\\2u^{16}+9u^{15}+\cdots-4u-3\end{pmatrix}$$
$$a_5 = \begin{pmatrix}\frac{1}{2}u^{16}+\frac{3}{2}u^{15}+\cdots-\frac{1}{2}u+\frac{1}{2}\\-u^{16}-6u^{15}+\cdots+3u+3\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-\frac{5}{2}u^{16}-\frac{27}{2}u^{15}+\cdots+\frac{13}{2}u+\frac{13}{2}\\-2u^{16}-12u^{15}+\cdots+6u+7\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -u^{16}-6u^{15}-20u^{14}-43u^{13}-71u^{12}-91u^{11}-94u^{10}-58u^9+66u^7+87u^6+92u^5+60u^4+46u^3+17u^2+17u-4$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} + 5u^{16} + \cdots - 35u - 4$
c_2, c_6	$u^{17} - 5u^{16} + \cdots - 3u + 2$
c_3	$u^{17} + 5u^{16} + \cdots + 201u + 74$
c_4, c_{10}	$u^{17} + 13u^{15} + \cdots + 4u + 1$
c_5, c_7	$u^{17} - u^{16} + \cdots + 2u + 1$
c_8, c_{11}	$u^{17} - 10u^{16} + \cdots + 27u - 4$
c_9, c_{12}	$u^{17} + 3u^{16} + \cdots - 8u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} + 17y^{16} + \cdots + 49y - 16$
c_2, c_6	$y^{17} + 5y^{16} + \cdots - 35y - 4$
c_3	$y^{17} + 29y^{16} + \cdots - 126395y - 5476$
c_4, c_{10}	$y^{17} + 26y^{16} + \cdots - 10y - 1$
c_5, c_7	$y^{17} - 25y^{16} + \cdots + 4y - 1$
c_8, c_{11}	$y^{17} + 2y^{16} + \cdots - 143y - 16$
c_9, c_{12}	$y^{17} - 15y^{16} + \cdots + 16y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.999402$ $a = 0.387652$ $b = -0.774608$	-3.45333	-1.57930
$u = -0.225183 + 0.839513I$ $a = 0.457066 - 0.305622I$ $b = 0.260858 - 0.479622I$	$-0.515123 - 1.230730I$	$-4.57965 + 6.11157I$
$u = -0.225183 - 0.839513I$ $a = 0.457066 + 0.305622I$ $b = 0.260858 + 0.479622I$	$-0.515123 + 1.230730I$	$-4.57965 - 6.11157I$
$u = -0.902975 + 0.779498I$ $a = -0.37268 + 1.47715I$ $b = -1.18710 + 0.79283I$	$5.52032 - 2.59660I$	$-1.98291 + 2.57071I$
$u = -0.902975 - 0.779498I$ $a = -0.37268 - 1.47715I$ $b = -1.18710 - 0.79283I$	$5.52032 + 2.59660I$	$-1.98291 - 2.57071I$
$u = -1.013990 + 0.825716I$ $a = 1.04491 - 1.15054I$ $b = 1.67420 + 0.11880I$	$2.66130 + 5.14311I$	$-3.31224 - 2.06906I$
$u = -1.013990 - 0.825716I$ $a = 1.04491 + 1.15054I$ $b = 1.67420 - 0.11880I$	$2.66130 - 5.14311I$	$-3.31224 + 2.06906I$
$u = -0.792289 + 1.041050I$ $a = -1.139370 + 0.603283I$ $b = -1.78949 + 0.05972I$	$4.68149 - 3.71646I$	$-2.79518 + 2.82261I$
$u = -0.792289 - 1.041050I$ $a = -1.139370 - 0.603283I$ $b = -1.78949 - 0.05972I$	$4.68149 + 3.71646I$	$-2.79518 - 2.82261I$
$u = 0.065367 + 0.651578I$ $a = 0.870762 - 0.440011I$ $b = -0.015136 - 0.797710I$	$-0.691744 - 1.119700I$	$-6.04337 + 5.63794I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.065367 - 0.651578I$ $a = 0.870762 + 0.440011I$ $b = -0.015136 + 0.797710I$	$-0.691744 + 1.119700I$	$-6.04337 - 5.63794I$
$u = 0.354914 + 0.549103I$ $a = -0.916291 + 0.819903I$ $b = 0.934133 + 0.713219I$	$0.02980 + 3.01264I$	$-7.09672 + 0.35044I$
$u = 0.354914 - 0.549103I$ $a = -0.916291 - 0.819903I$ $b = 0.934133 - 0.713219I$	$0.02980 - 3.01264I$	$-7.09672 - 0.35044I$
$u = 0.398162 + 1.288650I$ $a = -0.300696 - 0.167666I$ $b = -0.720067 + 0.510972I$	$-7.74200 + 4.95608I$	$-4.59429 - 5.14858I$
$u = 0.398162 - 1.288650I$ $a = -0.300696 + 0.167666I$ $b = -0.720067 - 0.510972I$	$-7.74200 - 4.95608I$	$-4.59429 + 5.14858I$
$u = -0.883711 + 1.061310I$ $a = 0.91247 - 1.36079I$ $b = 2.22990 - 0.92943I$	$1.89495 - 12.06910I$	$-4.30600 + 6.19242I$
$u = -0.883711 - 1.061310I$ $a = 0.91247 + 1.36079I$ $b = 2.22990 + 0.92943I$	$1.89495 + 12.06910I$	$-4.30600 - 6.19242I$

II.

$\boldsymbol{I_2^u = \langle -u^9+2u^8+\cdots+b+1,\ -2u^9+3u^8+\cdots+a+2,\ u^{10}-2u^9+\cdots-2u+1\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_6 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_3 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$
$$a_7 = \begin{pmatrix}u\\u\end{pmatrix}$$
$$a_4 = \begin{pmatrix}u^4+u^2+1\\u^4\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}2u^9-3u^8+6u^7-4u^6+8u^5-4u^4+7u^3-u^2+3u-2\\u^9-2u^8+4u^7-4u^6+6u^5-4u^4+5u^3-2u^2+2u-1\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}2u^9-3u^8+6u^7-4u^6+8u^5-4u^4+7u^3-u^2+3u-2\\u^9-2u^8+4u^7-4u^6+6u^5-5u^4+5u^3-3u^2+2u-2\end{pmatrix}$$
$$a_1 = \begin{pmatrix}u^2+1\\-u^4\end{pmatrix}$$
$$a_9 = \begin{pmatrix}2u^9-3u^8+6u^7-5u^6+9u^5-6u^4+8u^3-3u^2+4u-3\\u^9-2u^8+4u^7-5u^6+7u^5-6u^4+6u^3-4u^2+3u-2\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}-2u^9+3u^8-6u^7+5u^6-9u^5+6u^4-8u^3+3u^2-4u+3\\-u^9+u^8-2u^7+u^6-3u^5+u^4-3u^3+u^2-2u+1\end{pmatrix}$$
$$a_5 = \begin{pmatrix}-3u^9+5u^8-10u^7+8u^6-14u^5+10u^4-13u^3+4u^2-6u+5\\-u^9+2u^8-4u^7+3u^6-5u^5+4u^4-5u^3+u^2-2u+2\end{pmatrix}$$
$$a_8 = \begin{pmatrix}6u^9-9u^8+18u^7-14u^6+26u^5-16u^4+23u^3-7u^2+11u-8\\3u^9-4u^8+8u^7-6u^6+12u^5-6u^4+10u^3-3u^2+5u-3\end{pmatrix}$$

(ii) Obstruction class $= 1$

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

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{10}-4u^9+12u^8-24u^7+38u^6-41u^5+34u^4-19u^3+9u^2-2u+1$
c_2	$u^{10}-2u^9+4u^8-4u^7+6u^6-5u^5+6u^4-3u^3+3u^2-2u+1$
c_3	$u^{10}+2u^9+8u^8+4u^7+10u^5+u^4-6u^3+16u^2-10u+5$
c_4, c_{10}	$u^{10}+u^8+4u^7-11u^6-5u^5+18u^4-6u^3-2u+1$
c_5, c_7	$u^{10}+u^9-4u^8-5u^7-3u^6+u^5+15u^4+15u^3+11u^2+4u+1$
c_6	$u^{10}+2u^9+4u^8+4u^7+6u^6+5u^5+6u^4+3u^3+3u^2+2u+1$
c_8	$u^{10}-7u^9+19u^8-24u^7+9u^6+16u^5-27u^4+13u^3+6u^2-10u+5$
c_9, c_{12}	$u^{10}-3u^9+u^8+4u^7-5u^6+6u^4-u^3-u^2+2u+1$
c_{11}	$u^{10}+7u^9+19u^8+24u^7+9u^6-16u^5-27u^4-13u^3+6u^2+10u+5$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{10} + 8y^9 + \cdots + 14y + 1$
c_2, c_6	$y^{10} + 4y^9 + 12y^8 + 24y^7 + 38y^6 + 41y^5 + 34y^4 + 19y^3 + 9y^2 + 2y + 1$
c_3	$y^{10} + 12y^9 + \cdots + 60y + 25$
c_4, c_{10}	$y^{10} + 2y^9 + \cdots - 4y + 1$
c_5, c_7	$y^{10} - 9y^9 + \cdots + 6y + 1$
c_8, c_{11}	$y^{10} - 11y^9 + \cdots - 40y + 25$
c_9, c_{12}	$y^{10} - 7y^9 + \cdots - 6y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.378370 + 0.962478I$ $a = 0.467882 + 0.091620I$ $b = 0.034500 + 0.828197I$	$-0.560424 - 0.074153I$	$-4.22332 - 0.05050I$
$u = -0.378370 - 0.962478I$ $a = 0.467882 - 0.091620I$ $b = 0.034500 - 0.828197I$	$-0.560424 + 0.074153I$	$-4.22332 + 0.05050I$
$u = -0.549385 + 0.711068I$ $a = -0.483620 - 0.417086I$ $b = 0.789580 - 0.577598I$	$0.35639 - 3.68459I$	$-1.74176 + 8.84832I$
$u = -0.549385 - 0.711068I$ $a = -0.483620 + 0.417086I$ $b = 0.789580 + 0.577598I$	$0.35639 + 3.68459I$	$-1.74176 - 8.84832I$
$u = 0.485122 + 1.143680I$ $a = 0.522993 - 0.643782I$ $b = 0.836616 - 0.985073I$	$-8.64742 + 3.94137I$	$-8.44290 - 2.10467I$
$u = 0.485122 - 1.143680I$ $a = 0.522993 + 0.643782I$ $b = 0.836616 + 0.985073I$	$-8.64742 - 3.94137I$	$-8.44290 + 2.10467I$
$u = 0.946362 + 0.955964I$ $a = -0.97616 - 1.25675I$ $b = -2.01415 - 0.37924I$	$10.15450 + 3.46808I$	$1.22554 - 2.41931I$
$u = 0.946362 - 0.955964I$ $a = -0.97616 + 1.25675I$ $b = -2.01415 + 0.37924I$	$10.15450 - 3.46808I$	$1.22554 + 2.41931I$
$u = 0.496271 + 0.410325I$ $a = -1.53110 + 1.96143I$ $b = -0.646542 + 0.815887I$	$-6.23787 + 0.27295I$	$-4.31756 + 1.10366I$
$u = 0.496271 - 0.410325I$ $a = -1.53110 - 1.96143I$ $b = -0.646542 - 0.815887I$	$-6.23787 - 0.27295I$	$-4.31756 - 1.10366I$

III. $\boldsymbol{I^u_3 = \langle -u^5+u^4+u^2a-au-u^2+b-u+1,\ u^5a+2u^5+u^4-u^3+a^2+3au+u^2+4u+4,\ u^6-u^5+u^4+2u^2-u+1\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^4+u^2+1 \\ u^4 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} a \\ u^5-u^4-u^2a+au+u^2+u-1 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} a \\ u^5-u^4+au+u^2+u-1 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u^2+1 \\ -u^4 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} u^4a+u^5-u^3a-u^4+u^2a+u^3+a+u \\ u^4a+2u^5-u^3a-2u^4+u^3+au+u^2+2u-1 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} -u^4a-u^5+u^3a+u^4-u^2a-u^3-a-2u \\ -u^4a-2u^5+u^3a+2u^4-u^2a-2u^3-a-4u+1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -3u^5+3u^4-u^2a-2u^3+au+u^2-a-7u+3 \\ -u^4a-4u^5+u^3a+4u^4-2u^2a-3u^3+au+u^2-2a-8u+3 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -2u^4a-3u^5+2u^3a+2u^4-2u^2a-2u^3-3a-5u \\ -2u^4a-6u^5+2u^3a+5u^4-u^2a-3u^3-au-u^2-2a-10u+3 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -4u^5-4u^2-8u-10$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u^6 + u^5 + 5u^4 + 4u^3 + 6u^2 + 3u + 1)^2$
c_2, c_6	$(u^6 + u^5 + u^4 + 2u^2 + u + 1)^2$
c_3	$(u^6 - u^5 + 9u^4 + 20u^2 - u + 5)^2$
c_4, c_{10}	$u^{12} + u^{11} + \cdots - 30u + 187$
c_5, c_7	$u^{12} + u^{11} + \cdots - 12u + 1$
c_8, c_{11}	$(u^6 + 3u^5 - u^4 - 8u^3 - 2u^2 + 5u + 3)^2$
c_9, c_{12}	$u^{12} + 3u^{11} + \cdots + 184u + 41$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$(y^6+9y^5+29y^4+40y^3+22y^2+3y+1)^2$
c_2, c_6	$(y^6+y^5+5y^4+4y^3+6y^2+3y+1)^2$
c_3	$(y^6+17y^5+121y^4+368y^3+490y^2+199y+25)^2$
c_4, c_{10}	$y^{12}+11y^{11}+\cdots+67916y+34969$
c_5, c_7	$y^{12}-9y^{11}+\cdots+48y+1$
c_8, c_{11}	$(y^6-11y^5+45y^4-84y^3+78y^2-37y+9)^2$
c_9, c_{12}	$y^{12}-9y^{11}+\cdots+92y+1681$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.716019 + 0.809696I$ $a = 0.235532 - 0.660644I$ $b = 1.31075 - 1.14824I$	$-1.93691 - 2.65597I$	$-6.41885 + 3.39809I$
$u = -0.716019 + 0.809696I$ $a = 1.232850 - 0.459046I$ $b = 0.342200 + 0.700158I$	$-1.93691 - 2.65597I$	$-6.41885 + 3.39809I$
$u = -0.716019 - 0.809696I$ $a = 0.235532 + 0.660644I$ $b = 1.31075 + 1.14824I$	$-1.93691 + 2.65597I$	$-6.41885 - 3.39809I$
$u = -0.716019 - 0.809696I$ $a = 1.232850 + 0.459046I$ $b = 0.342200 - 0.700158I$	$-1.93691 + 2.65597I$	$-6.41885 - 3.39809I$
$u = 0.283231 + 0.633899I$ $a = -0.83956 + 1.55687I$ $b = -1.80934 + 1.85329I$	$-6.83783 + 1.10871I$	$-11.53615 - 6.18117I$
$u = 0.283231 + 0.633899I$ $a = -0.14932 - 3.37698I$ $b = -0.035938 - 0.941207I$	$-6.83783 + 1.10871I$	$-11.53615 - 6.18117I$
$u = 0.283231 - 0.633899I$ $a = -0.83956 - 1.55687I$ $b = -1.80934 - 1.85329I$	$-6.83783 - 1.10871I$	$-11.53615 + 6.18117I$
$u = 0.283231 - 0.633899I$ $a = -0.14932 + 3.37698I$ $b = -0.035938 + 0.941207I$	$-6.83783 - 1.10871I$	$-11.53615 + 6.18117I$
$u = 0.932789 + 0.951611I$ $a = -0.94860 - 1.12119I$ $b = -1.61310 - 0.56686I$	$8.77474 + 3.42721I$	$-6.04500 - 2.25224I$
$u = 0.932789 + 0.951611I$ $a = 0.96910 + 1.38183I$ $b = 2.30544 + 0.27711I$	$8.77474 + 3.42721I$	$-6.04500 - 2.25224I$

Solutions to I_3^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.932789 - 0.951611I$ $a = -0.94860 + 1.12119I$ $b = -1.61310 + 0.56686I$	$8.77474 - 3.42721I$	$-6.04500 + 2.25224I$
$u = 0.932789 - 0.951611I$ $a = 0.96910 - 1.38183I$ $b = 2.30544 - 0.27711I$	$8.77474 - 3.42721I$	$-6.04500 + 2.25224I$

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^6+u^5+5u^4+4u^3+6u^2+3u+1)^2$ $\cdot(u^{10}-4u^9+12u^8-24u^7+38u^6-41u^5+34u^4-19u^3+9u^2-2u+1)$ $\cdot(u^{17}+5u^{16}+\cdots-35u-4)$
c_2	$(u^6+u^5+u^4+2u^2+u+1)^2$ $\cdot(u^{10}-2u^9+4u^8-4u^7+6u^6-5u^5+6u^4-3u^3+3u^2-2u+1)$ $\cdot(u^{17}-5u^{16}+\cdots-3u+2)$
c_3	$(u^6-u^5+9u^4+20u^2-u+5)^2$ $\cdot(u^{10}+2u^9+8u^8+4u^7+10u^5+u^4-6u^3+16u^2-10u+5)$ $\cdot(u^{17}+5u^{16}+\cdots+201u+74)$
c_4, c_{10}	$(u^{10}+u^8+4u^7-11u^6-5u^5+18u^4-6u^3-2u+1)$ $\cdot(u^{12}+u^{11}+\cdots-30u+187)(u^{17}+13u^{15}+\cdots+4u+1)$
c_5, c_7	$(u^{10}+u^9-4u^8-5u^7-3u^6+u^5+15u^4+15u^3+11u^2+4u+1)$ $\cdot(u^{12}+u^{11}+\cdots-12u+1)(u^{17}-u^{16}+\cdots+2u+1)$
c_6	$(u^6+u^5+u^4+2u^2+u+1)^2$ $\cdot(u^{10}+2u^9+4u^8+4u^7+6u^6+5u^5+6u^4+3u^3+3u^2+2u+1)$ $\cdot(u^{17}-5u^{16}+\cdots-3u+2)$
c_8	$(u^6+3u^5-u^4-8u^3-2u^2+5u+3)^2$ $\cdot(u^{10}-7u^9+19u^8-24u^7+9u^6+16u^5-27u^4+13u^3+6u^2-10u+5)$ $\cdot(u^{17}-10u^{16}+\cdots+27u-4)$
c_9, c_{12}	$(u^{10}-3u^9+u^8+4u^7-5u^6+6u^4-u^3-u^2+2u+1)$ $\cdot(u^{12}+3u^{11}+\cdots+184u+41)(u^{17}+3u^{16}+\cdots-8u+1)$
c_{11}	$(u^6+3u^5-u^4-8u^3-2u^2+5u+3)^2$ $\cdot(u^{10}+7u^9+19u^8+24u^7+9u^6-16u^5-27u^4-13u^3+6u^2+10u+5)$ $\cdot(u^{17}-10u^{16}+\cdots+27u-4)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$((y^6+9y^5+\cdots+3y+1)^2)(y^{10}+8y^9+\cdots+14y+1)$ $\cdot(y^{17}+17y^{16}+\cdots+49y-16)$
c_2, c_6	$(y^6+y^5+5y^4+4y^3+6y^2+3y+1)^2$ $\cdot(y^{10}+4y^9+12y^8+24y^7+38y^6+41y^5+34y^4+19y^3+9y^2+2y+1)$ $\cdot(y^{17}+5y^{16}+\cdots-35y-4)$
c_3	$(y^6+17y^5+121y^4+368y^3+490y^2+199y+25)^2$ $\cdot(y^{10}+12y^9+\cdots+60y+25)(y^{17}+29y^{16}+\cdots-126395y-5476)$
c_4, c_{10}	$(y^{10}+2y^9+\cdots-4y+1)(y^{12}+11y^{11}+\cdots+67916y+34969)$ $\cdot(y^{17}+26y^{16}+\cdots-10y-1)$
c_5, c_7	$(y^{10}-9y^9+\cdots+6y+1)(y^{12}-9y^{11}+\cdots+48y+1)$ $\cdot(y^{17}-25y^{16}+\cdots+4y-1)$
c_8, c_{11}	$(y^6-11y^5+45y^4-84y^3+78y^2-37y+9)^2$ $\cdot(y^{10}-11y^9+\cdots-40y+25)(y^{17}+2y^{16}+\cdots-143y-16)$
c_9, c_{12}	$(y^{10}-7y^9+\cdots-6y+1)(y^{12}-9y^{11}+\cdots+92y+1681)$ $\cdot(y^{17}-15y^{16}+\cdots+16y-1)$