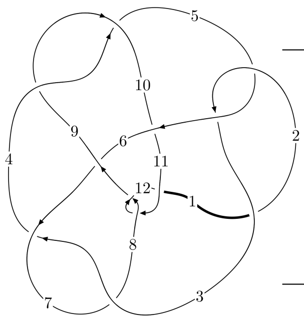
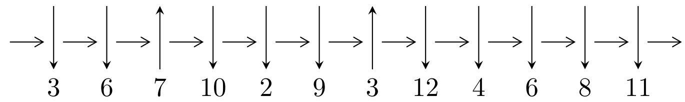
$12n_{0368}$ ($K12n_{0368}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 4.99290\times 10^{29}u^{27} - 9.04354\times 10^{29}u^{26} + \cdots + 1.48123\times 10^{30}b + 2.22464\times 10^{30}, \\
& 1.79527\times 10^{31}u^{27} - 3.40599\times 10^{31}u^{26} + \cdots + 4.44370\times 10^{30}a + 1.93917\times 10^{32},\ u^{28} - 2u^{27} + \cdots + 15u - \\
I_2^u = \langle & -u^{15} - u^{14} + \cdots + b - 1,\ -6u^{15} + 2u^{14} + \cdots + a - 10, \\
& u^{16} - 5u^{14} + u^{13} + 13u^{12} - 3u^{11} - 23u^{10} + 6u^9 + 29u^8 - 8u^7 - 26u^6 + 8u^5 + 16u^4 - 4u^3 - 6u^2 + u + 1\rangle \\
I_3^u = \langle & b - 1,\ a - 1,\ u + 1\rangle
\end{aligned}$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 45 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. $I^u_1 =$
$\langle 4.99\times10^{29}u^{27}-9.04\times10^{29}u^{26}+\cdots+1.48\times10^{30}b+2.22\times10^{30},\ 1.80\times10^{31}u^{27}-3.41\times10^{31}u^{26}+\cdots+4.44\times10^{30}a+1.94\times10^{32},\ u^{28}-2u^{27}+\cdots+15u-1\rangle$

(i) Arc colorings

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

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -4.04003u^{27}+7.66476u^{26}+\cdots+200.372u-43.6386 \\ -0.337077u^{27}+0.610541u^{26}+\cdots+8.04513u-1.50188 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 4.84634u^{27}-9.14511u^{26}+\cdots-218.138u+47.6168 \\ 0.162770u^{27}-0.345209u^{26}+\cdots-15.7091u+2.22482 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -9.48708u^{27}+18.0943u^{26}+\cdots+467.082u-96.8502 \\ -0.312623u^{27}+0.470169u^{26}+\cdots+9.63585u-2.96138 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 4.97301u^{27}-9.41740u^{26}+\cdots-230.480u+49.2941 \\ 0.173164u^{27}-0.347370u^{26}+\cdots-15.2980u+2.20586 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -12.5790u^{27}+23.8637u^{26}+\cdots+606.925u-129.004 \\ -0.600077u^{27}+1.10181u^{26}+\cdots+27.4907u-4.83602 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -16.7676u^{27}+31.8085u^{26}+\cdots+818.466u-172.294 \\ -0.699475u^{27}+1.15355u^{26}+\cdots+25.6721u-5.70735 \end{pmatrix}$$

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

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

$$a_{10} = \begin{pmatrix} 15.6689u^{27}-29.9384u^{26}+\cdots-773.348u+161.864 \\ 0.340769u^{27}-0.720300u^{26}+\cdots-15.5800u+4.83370 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 2.36235u^{27}-4.45969u^{26}+\cdots-84.8018u+5.95686$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{28}+56u^{27}+\cdots+733262u+28561$
c_2, c_5	$u^{28}+2u^{27}+\cdots-1450u-169$
c_3, c_7	$u^{28}-4u^{27}+\cdots+156u+23$
c_4, c_9	$u^{28}-24u^{26}+\cdots+46u-43$
c_6	$u^{28}-3u^{27}+\cdots-u-1$
c_8, c_{11}	$u^{28}+2u^{27}+\cdots-15u-1$
c_{10}	$u^{28}-63u^{26}+\cdots+129664u+33653$
c_{12}	$u^{28}+26u^{27}+\cdots+87u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{28} - 188y^{27} + \cdots - 348035375138y + 815730721$
c_2, c_5	$y^{28} - 56y^{27} + \cdots - 733262y + 28561$
c_3, c_7	$y^{28} + 32y^{27} + \cdots + 1516y + 529$
c_4, c_9	$y^{28} - 48y^{27} + \cdots - 11662y + 1849$
c_6	$y^{28} - 3y^{27} + \cdots - 13y + 1$
c_8, c_{11}	$y^{28} - 26y^{27} + \cdots - 87y + 1$
c_{10}	$y^{28} - 126y^{27} + \cdots - 33547178288y + 1132524409$
c_{12}	$y^{28} - 38y^{27} + \cdots - 11231y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.906896 + 0.646886I$ $a = -0.018709 - 0.380835I$ $b = -0.638662 + 0.021294I$	$1.71311 + 2.54690I$	$-1.43844 - 1.11774I$
$u = -0.906896 - 0.646886I$ $a = -0.018709 + 0.380835I$ $b = -0.638662 - 0.021294I$	$1.71311 - 2.54690I$	$-1.43844 + 1.11774I$
$u = 0.967377 + 0.607852I$ $a = 0.156659 - 0.808047I$ $b = 0.094276 - 0.264187I$	$-1.84113 - 4.28473I$	$-9.39382 + 5.33049I$
$u = 0.967377 - 0.607852I$ $a = 0.156659 + 0.808047I$ $b = 0.094276 + 0.264187I$	$-1.84113 + 4.28473I$	$-9.39382 - 5.33049I$
$u = -1.213110 + 0.327569I$ $a = 0.57852 - 1.90768I$ $b = -0.26231 - 1.86751I$	$-4.18195 + 4.33996I$	$-13.7175 - 7.6147I$
$u = -1.213110 - 0.327569I$ $a = 0.57852 + 1.90768I$ $b = -0.26231 + 1.86751I$	$-4.18195 - 4.33996I$	$-13.7175 + 7.6147I$
$u = 0.614251 + 0.338068I$ $a = -0.531012 + 0.325089I$ $b = 0.489062 - 0.020644I$	$-0.982240 + 0.119994I$	$-8.17175 + 0.02561I$
$u = 0.614251 - 0.338068I$ $a = -0.531012 - 0.325089I$ $b = 0.489062 + 0.020644I$	$-0.982240 - 0.119994I$	$-8.17175 - 0.02561I$
$u = 0.696063$ $a = -0.481673$ $b = 0.373251$	-0.946260	-10.4550
$u = 1.257950 + 0.387635I$ $a = -0.74898 - 1.66086I$ $b = 0.123685 - 1.210180I$	$-4.49564 - 1.87179I$	$-14.6317 - 1.5633I$

<table>
<tr><th>Solutions to I_1^u</th><th>$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$</th><th>Cusp shape</th></tr>
<tr><td>$u = 1.257950 - 0.387635I$
$a = -0.74898 + 1.66086I$
$b = 0.123685 + 1.210180I$</td><td>$-4.49564 + 1.87179I$</td><td>$-14.6317 + 1.5633I$</td></tr>
<tr><td>$u = -0.07059 + 1.45889I$
$a = -0.0475163 - 0.0400773I$
$b = -0.21400 - 1.78782I$</td><td>$-18.0323 + 4.3258I$</td><td>$-11.73246 - 2.08575I$</td></tr>
<tr><td>$u = -0.07059 - 1.45889I$
$a = -0.0475163 + 0.0400773I$
$b = -0.21400 + 1.78782I$</td><td>$-18.0323 - 4.3258I$</td><td>$-11.73246 + 2.08575I$</td></tr>
<tr><td>$u = 1.50606$
$a = -1.25220$
$b = -3.31724$</td><td>-15.4303</td><td>-22.9460</td></tr>
<tr><td>$u = -0.036535 + 0.484008I$
$a = -0.642458 + 0.305211I$
$b = -0.141755 + 0.946555I$</td><td>$-0.78712 - 1.33307I$</td><td>$-6.90000 + 4.82501I$</td></tr>
<tr><td>$u = -0.036535 - 0.484008I$
$a = -0.642458 - 0.305211I$
$b = -0.141755 - 0.946555I$</td><td>$-0.78712 + 1.33307I$</td><td>$-6.90000 - 4.82501I$</td></tr>
<tr><td>$u = 1.57314 + 0.15250I$
$a = 0.34179 + 1.42667I$
$b = -0.20624 + 2.13211I$</td><td>$-10.36200 + 1.52321I$</td><td>$-13.77194 - 1.67469I$</td></tr>
<tr><td>$u = 1.57314 - 0.15250I$
$a = 0.34179 - 1.42667I$
$b = -0.20624 - 2.13211I$</td><td>$-10.36200 - 1.52321I$</td><td>$-13.77194 + 1.67469I$</td></tr>
<tr><td>$u = -1.61185$
$a = -0.871275$
$b = 0.575915$</td><td>-16.6517</td><td>-17.2310</td></tr>
<tr><td>$u = -1.61164 + 0.12556I$
$a = -0.01556 + 1.51530I$
$b = 0.42383 + 1.60874I$</td><td>$-11.04510 + 5.13574I$</td><td>$-13.9862 - 3.3545I$</td></tr>
</table>

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.61164 - 0.12556I$ $a = -0.01556 - 1.51530I$ $b = 0.42383 - 1.60874I$	$-11.04510 - 5.13574I$	$-13.9862 + 3.3545I$
$u = 0.055371 + 0.305690I$ $a = -1.91148 + 0.93139I$ $b = 0.441705 - 1.203630I$	$-4.59867 - 3.49978I$	$-13.2785 + 5.9062I$
$u = 0.055371 - 0.305690I$ $a = -1.91148 - 0.93139I$ $b = 0.441705 + 1.203630I$	$-4.59867 + 3.49978I$	$-13.2785 - 5.9062I$
$u = 1.56528 + 0.69723I$ $a = 0.61493 + 1.30760I$ $b = -0.73222 + 1.97314I$	$16.4052 - 11.9046I$	$-13.05540 + 4.81403I$
$u = 1.56528 - 0.69723I$ $a = 0.61493 - 1.30760I$ $b = -0.73222 - 1.97314I$	$16.4052 + 11.9046I$	$-13.05540 - 4.81403I$
$u = -1.53853 + 0.79216I$ $a = -0.793628 + 0.857092I$ $b = 0.34136 + 1.61067I$	$17.0288 + 3.5616I$	$-13.06254 + 0.I$
$u = -1.53853 - 0.79216I$ $a = -0.793628 - 0.857092I$ $b = 0.34136 - 1.61067I$	$17.0288 - 3.5616I$	$-13.06254 + 0.I$
$u = 0.0975704$ $a = -30.3600$ $b = -1.06939$	-10.1503	0.912190

II.

$$\boldsymbol{I_2^u = \langle -u^{15}-u^{14}+\cdots+b-1,\ -6u^{15}+2u^{14}+\cdots+a-10,\ u^{16}-5u^{14}+\cdots+u+1\rangle}$$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 6u^{15} - 2u^{14} + \cdots - 15u + 10 \\ u^{15} + u^{14} + \cdots - 4u + 1 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 5u^{15} - 4u^{14} + \cdots - 10u + 13 \\ 3u^{15} - 2u^{14} + \cdots - 2u + 3 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 13u^{15} - 5u^{14} + \cdots - 30u + 25 \\ u^{14} - u^{13} + \cdots - 5u + 1 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 6u^{15} - 4u^{14} + \cdots - 11u + 12 \\ 3u^{15} - 2u^{14} + \cdots - 3u + 3 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 16u^{15} - 7u^{14} + \cdots - 35u + 29 \\ 3u^{15} - u^{14} + \cdots - 4u + 5 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -18u^{15} + 9u^{14} + \cdots + 38u - 40 \\ -u^{15} + 5u^{13} + \cdots + 5u - 4 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -u^3 \\ -u^3 + u \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -21u^{15} + 11u^{14} + \cdots + 40u - 40 \\ -5u^{15} + 3u^{14} + \cdots + 5u - 9 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -13u^{15} + 4u^{14} + 60u^{13} - 31u^{12} - 141u^{11} + 76u^{10} + 230u^9 - 132u^8 - 260u^7 + 157u^6 + 200u^5 - 136u^4 - 96u^3 + 62u^2 + 25u - 31$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - 16u^{15} + \cdots - 8u + 1$
c_2	$u^{16} + 4u^{15} + \cdots + 4u + 1$
c_3	$u^{16} + 4u^{14} + \cdots - 6u + 1$
c_4	$u^{16} - 10u^{14} + \cdots - 2u - 1$
c_5	$u^{16} - 4u^{15} + \cdots - 4u + 1$
c_6	$u^{16} - 3u^{15} + \cdots - 3u - 1$
c_7	$u^{16} + 4u^{14} + \cdots + 6u + 1$
c_8	$u^{16} - 5u^{14} + \cdots + u + 1$
c_9	$u^{16} - 10u^{14} + \cdots + 2u - 1$
c_{10}	$u^{16} + 2u^{15} + \cdots + 7u^2 - 1$
c_{11}	$u^{16} - 5u^{14} + \cdots - u + 1$
c_{12}	$u^{16} + 10u^{15} + \cdots + 13u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{16} - 52y^{15} + \cdots + 20y + 1$
c_2, c_5	$y^{16} - 16y^{15} + \cdots - 8y + 1$
c_3, c_7	$y^{16} + 8y^{15} + \cdots - 10y + 1$
c_4, c_9	$y^{16} - 20y^{15} + \cdots + 4y + 1$
c_6	$y^{16} + y^{15} + \cdots - 15y + 1$
c_8, c_{11}	$y^{16} - 10y^{15} + \cdots - 13y + 1$
c_{10}	$y^{16} - 38y^{15} + \cdots - 14y + 1$
c_{12}	$y^{16} + 2y^{15} + \cdots - 17y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.772761 + 0.712653I$ $a = 0.214642 + 0.139490I$ $b = -0.174212 + 0.983327I$	$-3.18731 - 4.89171I$	$-13.3342 + 7.1832I$
$u = 0.772761 - 0.712653I$ $a = 0.214642 - 0.139490I$ $b = -0.174212 - 0.983327I$	$-3.18731 + 4.89171I$	$-13.3342 - 7.1832I$
$u = -1.026470 + 0.385848I$ $a = 0.97974 - 2.34875I$ $b = -0.64749 - 1.56601I$	$-6.20371 + 5.58512I$	$-14.9139 - 6.6172I$
$u = -1.026470 - 0.385848I$ $a = 0.97974 + 2.34875I$ $b = -0.64749 + 1.56601I$	$-6.20371 - 5.58512I$	$-14.9139 + 6.6172I$
$u = -0.868992 + 0.775777I$ $a = 0.422206 - 0.337071I$ $b = -0.267354 + 0.100433I$	$1.11054 + 2.92387I$	$-11.66623 - 5.71389I$
$u = -0.868992 - 0.775777I$ $a = 0.422206 + 0.337071I$ $b = -0.267354 - 0.100433I$	$1.11054 - 2.92387I$	$-11.66623 + 5.71389I$
$u = 1.153510 + 0.323030I$ $a = -0.52474 - 1.80473I$ $b = -0.125626 - 1.307330I$	$-4.07711 - 3.14561I$	$-13.9405 + 2.6304I$
$u = 1.153510 - 0.323030I$ $a = -0.52474 + 1.80473I$ $b = -0.125626 + 1.307330I$	$-4.07711 + 3.14561I$	$-13.9405 - 2.6304I$
$u = -0.730829 + 0.328251I$ $a = -0.476380 - 0.106565I$ $b = -0.722249 + 1.146800I$	$-5.07627 - 2.52540I$	$-16.3893 + 0.5079I$
$u = -0.730829 - 0.328251I$ $a = -0.476380 + 0.106565I$ $b = -0.722249 - 1.146800I$	$-5.07627 + 2.52540I$	$-16.3893 - 0.5079I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.004110 + 0.721375I$ $a = -1.101500 - 0.625779I$ $b = 0.144368 - 1.128410I$	$-3.89724 - 0.61018I$	$-12.26838 + 0.63265I$
$u = 1.004110 - 0.721375I$ $a = -1.101500 + 0.625779I$ $b = 0.144368 + 1.128410I$	$-3.89724 + 0.61018I$	$-12.26838 - 0.63265I$
$u = 0.698430 + 0.203647I$ $a = -1.272980 + 0.463255I$ $b = 0.148546 + 0.648408I$	$-2.24714 + 0.87508I$	$-15.0335 - 1.9463I$
$u = 0.698430 - 0.203647I$ $a = -1.272980 - 0.463255I$ $b = 0.148546 - 0.648408I$	$-2.24714 - 0.87508I$	$-15.0335 + 1.9463I$
$u = -0.491820$ $a = 7.05656$ $b = 1.05815$	-10.4382	-27.2890
$u = -1.51322$ $a = 0.461470$ $b = 2.22988$	-14.7824	-9.61910

III. $I_3^u = \langle b-1,\ a-1,\ u+1\rangle$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 3 \\ 2 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -1 \\ -1 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -1 \\ -1 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -2 \\ -1 \end{pmatrix}$$

(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_3 c_5, c_6, c_7 c_{12}	$u + 1$
c_4, 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 c_{10}, c_{11}, c_{12}	$y-1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.00000$ $a = 1.00000$ $b = 1.00000$	-4.93480	-18.0000

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u+1)(u^{16}-16u^{15}+\cdots-8u+1)$ $\cdot(u^{28}+56u^{27}+\cdots+733262u+28561)$
c_2	$(u+1)(u^{16}+4u^{15}+\cdots+4u+1)(u^{28}+2u^{27}+\cdots-1450u-169)$
c_3	$(u+1)(u^{16}+4u^{14}+\cdots-6u+1)(u^{28}-4u^{27}+\cdots+156u+23)$
c_4	$(u-1)(u^{16}-10u^{14}+\cdots-2u-1)(u^{28}-24u^{26}+\cdots+46u-43)$
c_5	$(u+1)(u^{16}-4u^{15}+\cdots-4u+1)(u^{28}+2u^{27}+\cdots-1450u-169)$
c_6	$(u+1)(u^{16}-3u^{15}+\cdots-3u-1)(u^{28}-3u^{27}+\cdots-u-1)$
c_7	$(u+1)(u^{16}+4u^{14}+\cdots+6u+1)(u^{28}-4u^{27}+\cdots+156u+23)$
c_8	$(u-1)(u^{16}-5u^{14}+\cdots+u+1)(u^{28}+2u^{27}+\cdots-15u-1)$
c_9	$(u-1)(u^{16}-10u^{14}+\cdots+2u-1)(u^{28}-24u^{26}+\cdots+46u-43)$
c_{10}	$(u-1)(u^{16}+2u^{15}+\cdots+7u^2-1)$ $\cdot(u^{28}-63u^{26}+\cdots+129664u+33653)$
c_{11}	$(u-1)(u^{16}-5u^{14}+\cdots-u+1)(u^{28}+2u^{27}+\cdots-15u-1)$
c_{12}	$(u+1)(u^{16}+10u^{15}+\cdots+13u+1)(u^{28}+26u^{27}+\cdots+87u+1)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y-1)(y^{16}-52y^{15}+\cdots+20y+1)$ $\cdot(y^{28}-188y^{27}+\cdots-348035375138y+815730721)$
c_2, c_5	$(y-1)(y^{16}-16y^{15}+\cdots-8y+1)$ $\cdot(y^{28}-56y^{27}+\cdots-733262y+28561)$
c_3, c_7	$(y-1)(y^{16}+8y^{15}+\cdots-10y+1)(y^{28}+32y^{27}+\cdots+1516y+529)$
c_4, c_9	$(y-1)(y^{16}-20y^{15}+\cdots+4y+1)(y^{28}-48y^{27}+\cdots-11662y+1849)$
c_6	$(y-1)(y^{16}+y^{15}+\cdots-15y+1)(y^{28}-3y^{27}+\cdots-13y+1)$
c_8, c_{11}	$(y-1)(y^{16}-10y^{15}+\cdots-13y+1)(y^{28}-26y^{27}+\cdots-87y+1)$
c_{10}	$(y-1)(y^{16}-38y^{15}+\cdots-14y+1)$ $\cdot(y^{28}-126y^{27}+\cdots-33547178288y+1132524409)$
c_{12}	$(y-1)(y^{16}+2y^{15}+\cdots-17y+1)(y^{28}-38y^{27}+\cdots-11231y+1)$