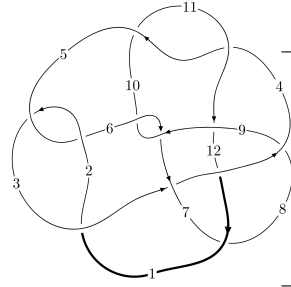
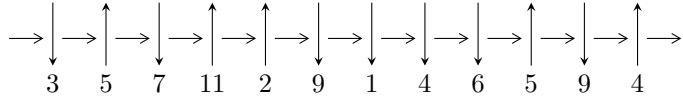


12n₀₃₆₀ (K12n₀₃₆₀)



A knot diagram¹

Linearized knot diagram



Solving Sequence

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

Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -3.17231 \times 10^{41} u^{41} - 1.10310 \times 10^{41} u^{40} + \dots + 1.27534 \times 10^{41} b - 1.91700 \times 10^{42}, \\ - 3.79921 \times 10^{42} u^{41} + 1.16103 \times 10^{42} u^{40} + \dots + 1.27534 \times 10^{41} a - 5.15011 \times 10^{42}, u^{42} + 4u^{40} + \dots + 8u \rangle$$

$$I_2^u = \langle -4867u^{17} + 14254u^{16} + \dots + 1012b + 2283, -6343u^{17} + 8982u^{16} + \dots + 1012a - 18113, \\ u^{18} - 3u^{17} + \dots - 2u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 60 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.

$$I_1^u = \langle -3.17 \times 10^{41} u^{41} - 1.10 \times 10^{41} u^{40} + \dots + 1.28 \times 10^{41} b - 1.92 \times 10^{42}, -3.80 \times 10^{42} u^{41} + 1.16 \times 10^{42} u^{40} + \dots + 1.28 \times 10^{41} a - 5.15 \times 10^{42}, u^{42} + 4u^{40} + \dots + 8u + 1 \rangle$$

(i) Arc colorings

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

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

$$a_5 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 29.7898u^{41} - 9.10368u^{40} + \dots + 352.163u + 40.3823 \\ 2.48742u^{41} + 0.864947u^{40} + \dots + 84.3991u + 15.0313 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -18.2967u^{41} - 1.79519u^{40} + \dots - 427.707u - 64.5574 \\ 1.07748u^{41} + 0.260227u^{40} + \dots + 14.9654u - 0.377505 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 26.3588u^{41} - 7.38711u^{40} + \dots + 310.803u + 34.4547 \\ 2.06799u^{41} + 0.593466u^{40} + \dots + 74.0976u + 13.3147 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 28.4268u^{41} - 6.79364u^{40} + \dots + 384.901u + 47.7694 \\ 2.06799u^{41} + 0.593466u^{40} + \dots + 74.0976u + 13.3147 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 8.01480u^{41} - 7.35645u^{40} + \dots - 49.3603u - 18.0733 \\ 5.08682u^{41} + 0.163226u^{40} + \dots + 86.5337u + 9.31672 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 7.63267u^{41} - 7.14139u^{40} + \dots - 53.0896u - 18.3070 \\ 6.44055u^{41} + 0.639959u^{40} + \dots + 130.209u + 16.3404 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 19.0918u^{41} + 7.25817u^{40} + \dots + 568.854u + 93.4086 \\ -1.69590u^{41} + 4.74779u^{40} + \dots + 94.9034u + 19.8886 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = $29.4758u^{41} - 5.89551u^{40} + \dots + 439.594u + 56.8690$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{42} + 8u^{41} + \dots + 14u + 1$
c_2, c_5	$u^{42} + 4u^{40} + \dots + 8u + 1$
c_3	$u^{42} + u^{41} + \dots + 15u + 1$
c_4, c_{10}	$u^{42} - 3u^{40} + \dots + 3884u + 653$
c_6, c_9	$u^{42} - 2u^{41} + \dots - 1450u + 2881$
c_7, c_{11}	$u^{42} - 2u^{41} + \dots + 102u + 116$
c_8	$u^{42} + 29u^{40} + \dots - 3172u + 968$
c_{12}	$u^{42} + u^{41} + \dots + 8821u + 713$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{42} + 60y^{41} + \dots + 106y + 1$
c_2, c_5	$y^{42} + 8y^{41} + \dots + 14y + 1$
c_3	$y^{42} + 7y^{41} + \dots + 461y + 1$
c_4, c_{10}	$y^{42} - 6y^{41} + \dots - 6058384y + 426409$
c_6, c_9	$y^{42} + 54y^{41} + \dots + 123416908y + 8300161$
c_7, c_{11}	$y^{42} + 50y^{41} + \dots + 280292y + 13456$
c_8	$y^{42} + 58y^{41} + \dots - 12741008y + 937024$
c_{12}	$y^{42} - 59y^{41} + \dots - 9108213y + 508369$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.401386 + 0.907950I$ $a = -1.30994 + 2.33702I$ $b = 1.61047 - 0.43509I$	$5.91077 + 1.27313I$	$0.461828 + 0.968619I$
$u = -0.401386 - 0.907950I$ $a = -1.30994 - 2.33702I$ $b = 1.61047 + 0.43509I$	$5.91077 - 1.27313I$	$0.461828 - 0.968619I$
$u = -0.482655 + 0.905869I$ $a = 1.53119 + 1.57511I$ $b = 0.357628 - 1.155570I$	$-3.09049 - 4.22260I$	$-5.14689 + 7.39649I$
$u = -0.482655 - 0.905869I$ $a = 1.53119 - 1.57511I$ $b = 0.357628 + 1.155570I$	$-3.09049 + 4.22260I$	$-5.14689 - 7.39649I$
$u = -0.703951 + 0.646413I$ $a = 0.097005 - 0.274142I$ $b = 1.35281 - 0.45723I$	$7.00024 - 5.59064I$	$1.86038 + 6.99102I$
$u = -0.703951 - 0.646413I$ $a = 0.097005 + 0.274142I$ $b = 1.35281 + 0.45723I$	$7.00024 + 5.59064I$	$1.86038 - 6.99102I$
$u = 0.284092 + 1.017050I$ $a = -0.211153 - 0.796137I$ $b = 0.270228 + 0.532970I$	$-0.93324 + 2.30287I$	$0.55695 - 5.43151I$
$u = 0.284092 - 1.017050I$ $a = -0.211153 + 0.796137I$ $b = 0.270228 - 0.532970I$	$-0.93324 - 2.30287I$	$0.55695 + 5.43151I$
$u = -0.344707 + 1.010570I$ $a = -0.70988 - 2.54288I$ $b = -1.04250 + 1.60858I$	$-3.88818 - 1.43090I$	$-6.13404 - 0.44141I$
$u = -0.344707 - 1.010570I$ $a = -0.70988 + 2.54288I$ $b = -1.04250 - 1.60858I$	$-3.88818 + 1.43090I$	$-6.13404 + 0.44141I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.334236 + 0.869539I$ $a = 0.19107 + 1.40502I$ $b = -0.253907 + 0.343667I$	$2.57400 + 3.84916I$	$-2.94638 - 4.40988I$
$u = 0.334236 - 0.869539I$ $a = 0.19107 - 1.40502I$ $b = -0.253907 - 0.343667I$	$2.57400 - 3.84916I$	$-2.94638 + 4.40988I$
$u = 1.081170 + 0.341257I$ $a = -0.0779258 - 0.1028190I$ $b = -1.014370 - 0.665967I$	$6.88916 + 0.77238I$	$3.82875 + 0.50165I$
$u = 1.081170 - 0.341257I$ $a = -0.0779258 + 0.1028190I$ $b = -1.014370 + 0.665967I$	$6.88916 - 0.77238I$	$3.82875 - 0.50165I$
$u = 0.593161 + 0.466185I$ $a = -0.477779 + 0.366692I$ $b = 0.331918 + 0.155382I$	$0.97092 + 1.12729I$	$3.41044 - 3.72299I$
$u = 0.593161 - 0.466185I$ $a = -0.477779 - 0.366692I$ $b = 0.331918 - 0.155382I$	$0.97092 - 1.12729I$	$3.41044 + 3.72299I$
$u = -0.960756 + 0.862418I$ $a = 0.263391 - 0.247533I$ $b = 0.906451 - 0.144108I$	$8.16534 + 0.62011I$	0
$u = -0.960756 - 0.862418I$ $a = 0.263391 + 0.247533I$ $b = 0.906451 + 0.144108I$	$8.16534 - 0.62011I$	0
$u = 1.030270 + 0.851389I$ $a = 1.050060 - 0.637282I$ $b = 3.02403 + 0.18691I$	$15.8428 + 3.0373I$	0
$u = 1.030270 - 0.851389I$ $a = 1.050060 + 0.637282I$ $b = 3.02403 - 0.18691I$	$15.8428 - 3.0373I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.881885 + 1.024300I$ $a = 0.065443 + 1.314000I$ $b = 1.116300 + 0.121744I$	$7.64407 - 7.40138I$	0
$u = -0.881885 - 1.024300I$ $a = 0.065443 - 1.314000I$ $b = 1.116300 - 0.121744I$	$7.64407 + 7.40138I$	0
$u = -0.258984 + 0.576790I$ $a = 0.28812 - 1.63058I$ $b = -1.042850 - 0.283492I$	$-1.89277 - 0.93054I$	$-0.64123 - 5.03409I$
$u = -0.258984 - 0.576790I$ $a = 0.28812 + 1.63058I$ $b = -1.042850 + 0.283492I$	$-1.89277 + 0.93054I$	$-0.64123 + 5.03409I$
$u = 0.889913 + 1.082940I$ $a = 0.32129 - 2.34661I$ $b = 3.16294 - 0.04261I$	$15.0651 + 4.0075I$	0
$u = 0.889913 - 1.082940I$ $a = 0.32129 + 2.34661I$ $b = 3.16294 + 0.04261I$	$15.0651 - 4.0075I$	0
$u = -1.10926 + 0.89934I$ $a = -0.999768 - 0.372325I$ $b = -2.69091 + 0.68963I$	$16.3728 + 6.2095I$	0
$u = -1.10926 - 0.89934I$ $a = -0.999768 + 0.372325I$ $b = -2.69091 - 0.68963I$	$16.3728 - 6.2095I$	0
$u = 1.08343 + 0.95036I$ $a = -0.278099 - 0.106243I$ $b = -0.808505 - 0.423181I$	$6.49243 + 3.66353I$	0
$u = 1.08343 - 0.95036I$ $a = -0.278099 + 0.106243I$ $b = -0.808505 + 0.423181I$	$6.49243 - 3.66353I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.59894 + 1.32646I$ $a = 0.840675 + 0.936960I$ $b = -1.74794 + 0.20763I$	$3.56306 + 5.56643I$	0
$u = 0.59894 - 1.32646I$ $a = 0.840675 - 0.936960I$ $b = -1.74794 - 0.20763I$	$3.56306 - 5.56643I$	0
$u = -0.95393 + 1.10294I$ $a = -0.08765 - 1.98339I$ $b = -2.77311 - 0.59101I$	$15.6580 - 13.6964I$	0
$u = -0.95393 - 1.10294I$ $a = -0.08765 + 1.98339I$ $b = -2.77311 + 0.59101I$	$15.6580 + 13.6964I$	0
$u = 1.03091 + 1.03246I$ $a = -0.171963 + 0.984513I$ $b = -1.270640 + 0.340074I$	$6.22484 + 3.97881I$	0
$u = 1.03091 - 1.03246I$ $a = -0.171963 - 0.984513I$ $b = -1.270640 - 0.340074I$	$6.22484 - 3.97881I$	0
$u = -0.373093 + 0.258025I$ $a = -1.14452 - 1.54216I$ $b = -0.465004 - 1.176860I$	$-1.61522 - 1.51020I$	$-1.99512 + 5.26674I$
$u = -0.373093 - 0.258025I$ $a = -1.14452 + 1.54216I$ $b = -0.465004 + 1.176860I$	$-1.61522 + 1.51020I$	$-1.99512 - 5.26674I$
$u = -0.179315 + 0.403078I$ $a = 0.716711 - 0.420282I$ $b = -0.586881 + 0.899608I$	$-1.85309 + 1.18150I$	$0.81194 + 1.42321I$
$u = -0.179315 - 0.403078I$ $a = 0.716711 + 0.420282I$ $b = -0.586881 - 0.899608I$	$-1.85309 - 1.18150I$	$0.81194 - 1.42321I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.276210 + 0.334239I$	$5.10998 - 3.43817I$	$2.08715 + 8.85459I$
$a = -0.89628 + 5.44219I$		
$b = 0.563842 + 0.807265I$		
$u = -0.276210 - 0.334239I$	$5.10998 + 3.43817I$	$2.08715 - 8.85459I$
$a = -0.89628 - 5.44219I$		
$b = 0.563842 - 0.807265I$		

$$\text{II. } I_2^u = \langle -4867u^{17} + 14254u^{16} + \dots + 1012b + 2283, -6343u^{17} + 8982u^{16} + \dots + 1012a - 18113, u^{18} - 3u^{17} + \dots - 2u + 1 \rangle$$

(i) Arc colorings

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

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

$$a_5 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 6.26779u^{17} - 8.87549u^{16} + \dots - 5.28162u + 17.8982 \\ 4.80929u^{17} - 14.0850u^{16} + \dots + 12.3113u - 2.25593 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.265810u^{17} - 6.61067u^{16} + \dots + 16.6670u - 18.5484 \\ -3.83103u^{17} + 13.4328u^{16} + \dots - 22.5504u + 8.40810 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.98715u^{17} - 2.83992u^{16} + \dots - 4.00494u + 10.2263 \\ 4.74605u^{17} - 12.5277u^{16} + \dots + 7.97925u + 1.55040 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 7.73320u^{17} - 15.3676u^{16} + \dots + 3.97431u + 11.7767 \\ 4.74605u^{17} - 12.5277u^{16} + \dots + 7.97925u + 1.55040 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -11.2737u^{17} + 34.3340u^{16} + \dots - 42.8745u + 11.0524 \\ -0.487154u^{17} + 5.83992u^{16} + \dots - 20.4951u + 12.2737 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -12.6947u^{17} + 37.8874u^{16} + \dots - 45.9595u + 10.5445 \\ 2.59783u^{17} - 3.06522u^{16} + \dots - 9.92391u + 10.3152 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -3.87253u^{17} + 24.6423u^{16} + \dots - 46.6433u + 37.0623 \\ 5.80929u^{17} - 17.0850u^{16} + \dots + 20.3113u - 4.25593 \end{pmatrix}$$

(ii) Obstruction class = 1

$$\text{(iii) Cusp Shapes} = -\frac{9044}{253}u^{17} + \frac{28784}{253}u^{16} + \dots - \frac{39132}{253}u + \frac{7280}{253}$$

(iv) u -Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{18} - 7u^{17} + \dots - 14u + 1$
c_2	$u^{18} + 3u^{17} + \dots + 2u + 1$
c_3	$u^{18} - 3u^{16} + \dots - 3u + 1$
c_4	$u^{18} - u^{17} + \dots - 2u + 1$
c_5	$u^{18} - 3u^{17} + \dots - 2u + 1$
c_6	$u^{18} - u^{17} + \dots + 4u^2 + 1$
c_7	$u^{18} - 3u^{17} + \dots - 10u + 4$
c_8	$u^{18} + u^{17} + \dots + 76u + 57$
c_9	$u^{18} + u^{17} + \dots + 4u^2 + 1$
c_{10}	$u^{18} + u^{17} + \dots + 2u + 1$
c_{11}	$u^{18} + 3u^{17} + \dots + 10u + 4$
c_{12}	$u^{18} - 6u^{16} + \dots - 11u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{18} + 15y^{17} + \dots - 18y + 1$
c_2, c_5	$y^{18} + 7y^{17} + \dots + 14y + 1$
c_3	$y^{18} - 6y^{17} + \dots + 5y + 1$
c_4, c_{10}	$y^{18} + 13y^{17} + \dots + 8y + 1$
c_6, c_9	$y^{18} + 13y^{17} + \dots + 8y + 1$
c_7, c_{11}	$y^{18} + 17y^{17} + \dots + 132y + 16$
c_8	$y^{18} + 9y^{17} + \dots + 9386y + 3249$
c_{12}	$y^{18} - 12y^{17} + \dots - 81y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.240870 + 0.978943I$		
$a = -1.25541 - 2.83197I$	$-3.86342 - 2.53444I$	$-6.00075 + 4.97918I$
$b = -0.21177 + 1.92601I$		
$u = -0.240870 - 0.978943I$		
$a = -1.25541 + 2.83197I$	$-3.86342 + 2.53444I$	$-6.00075 - 4.97918I$
$b = -0.21177 - 1.92601I$		
$u = -0.765621 + 0.606358I$		
$a = 0.278651 + 1.280040I$	$0.23703 - 1.69228I$	$0.83242 + 2.86969I$
$b = 1.24023 + 1.62359I$		
$u = -0.765621 - 0.606358I$		
$a = 0.278651 - 1.280040I$	$0.23703 + 1.69228I$	$0.83242 - 2.86969I$
$b = 1.24023 - 1.62359I$		
$u = 0.337566 + 0.846099I$		
$a = -0.091147 - 1.262980I$	$-2.00038 + 1.54339I$	$-3.04611 - 5.94174I$
$b = 0.939589 + 0.176841I$		
$u = 0.337566 - 0.846099I$		
$a = -0.091147 + 1.262980I$	$-2.00038 - 1.54339I$	$-3.04611 + 5.94174I$
$b = 0.939589 - 0.176841I$		
$u = -0.620903 + 1.061930I$		
$a = 1.55504 + 1.96968I$	$-1.22831 - 3.61122I$	$-0.22198 + 3.20516I$
$b = 1.56919 - 2.08170I$		
$u = -0.620903 - 1.061930I$		
$a = 1.55504 - 1.96968I$	$-1.22831 + 3.61122I$	$-0.22198 - 3.20516I$
$b = 1.56919 + 2.08170I$		
$u = 0.467804 + 1.187440I$		
$a = 0.623317 + 0.856528I$	$2.26110 + 5.81595I$	$-4.03162 - 6.52282I$
$b = -1.323390 + 0.290602I$		
$u = 0.467804 - 1.187440I$		
$a = 0.623317 - 0.856528I$	$2.26110 - 5.81595I$	$-4.03162 + 6.52282I$
$b = -1.323390 - 0.290602I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.096150 + 0.673790I$ $a = 0.0129986 - 0.0113203I$ $b = -0.857327 - 0.140205I$	$7.53035 + 2.31013I$	$6.08544 - 2.15566I$
$u = 1.096150 - 0.673790I$ $a = 0.0129986 + 0.0113203I$ $b = -0.857327 + 0.140205I$	$7.53035 - 2.31013I$	$6.08544 + 2.15566I$
$u = 0.199181 + 0.600312I$ $a = -2.57923 + 3.26705I$ $b = -0.522876 - 0.873088I$	$4.82909 - 2.78799I$	$-2.22398 - 0.71537I$
$u = 0.199181 - 0.600312I$ $a = -2.57923 - 3.26705I$ $b = -0.522876 + 0.873088I$	$4.82909 + 2.78799I$	$-2.22398 + 0.71537I$
$u = 0.056256 + 0.577327I$ $a = -0.541472 - 1.074660I$ $b = 0.797007 - 0.718327I$	$-2.39405 + 1.36812I$	$-15.0403 - 4.3531I$
$u = 0.056256 - 0.577327I$ $a = -0.541472 + 1.074660I$ $b = 0.797007 + 0.718327I$	$-2.39405 - 1.36812I$	$-15.0403 + 4.3531I$
$u = 0.97044 + 1.14952I$ $a = -0.002747 + 0.847842I$ $b = -1.130650 + 0.094155I$	$6.14313 + 5.16446I$	$2.14687 - 7.70212I$
$u = 0.97044 - 1.14952I$ $a = -0.002747 - 0.847842I$ $b = -1.130650 - 0.094155I$	$6.14313 - 5.16446I$	$2.14687 + 7.70212I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{18} - 7u^{17} + \dots - 14u + 1)(u^{42} + 8u^{41} + \dots + 14u + 1)$
c_2	$(u^{18} + 3u^{17} + \dots + 2u + 1)(u^{42} + 4u^{40} + \dots + 8u + 1)$
c_3	$(u^{18} - 3u^{16} + \dots - 3u + 1)(u^{42} + u^{41} + \dots + 15u + 1)$
c_4	$(u^{18} - u^{17} + \dots - 2u + 1)(u^{42} - 3u^{40} + \dots + 3884u + 653)$
c_5	$(u^{18} - 3u^{17} + \dots - 2u + 1)(u^{42} + 4u^{40} + \dots + 8u + 1)$
c_6	$(u^{18} - u^{17} + \dots + 4u^2 + 1)(u^{42} - 2u^{41} + \dots - 1450u + 2881)$
c_7	$(u^{18} - 3u^{17} + \dots - 10u + 4)(u^{42} - 2u^{41} + \dots + 102u + 116)$
c_8	$(u^{18} + u^{17} + \dots + 76u + 57)(u^{42} + 29u^{40} + \dots - 3172u + 968)$
c_9	$(u^{18} + u^{17} + \dots + 4u^2 + 1)(u^{42} - 2u^{41} + \dots - 1450u + 2881)$
c_{10}	$(u^{18} + u^{17} + \dots + 2u + 1)(u^{42} - 3u^{40} + \dots + 3884u + 653)$
c_{11}	$(u^{18} + 3u^{17} + \dots + 10u + 4)(u^{42} - 2u^{41} + \dots + 102u + 116)$
c_{12}	$(u^{18} - 6u^{16} + \dots - 11u + 1)(u^{42} + u^{41} + \dots + 8821u + 713)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{18} + 15y^{17} + \dots - 18y + 1)(y^{42} + 60y^{41} + \dots + 106y + 1)$
c_2, c_5	$(y^{18} + 7y^{17} + \dots + 14y + 1)(y^{42} + 8y^{41} + \dots + 14y + 1)$
c_3	$(y^{18} - 6y^{17} + \dots + 5y + 1)(y^{42} + 7y^{41} + \dots + 461y + 1)$
c_4, c_{10}	$(y^{18} + 13y^{17} + \dots + 8y + 1)(y^{42} - 6y^{41} + \dots - 6058384y + 426409)$
c_6, c_9	$(y^{18} + 13y^{17} + \dots + 8y + 1)$ $\cdot (y^{42} + 54y^{41} + \dots + 123416908y + 8300161)$
c_7, c_{11}	$(y^{18} + 17y^{17} + \dots + 132y + 16)$ $\cdot (y^{42} + 50y^{41} + \dots + 280292y + 13456)$
c_8	$(y^{18} + 9y^{17} + \dots + 9386y + 3249)$ $\cdot (y^{42} + 58y^{41} + \dots - 12741008y + 937024)$
c_{12}	$(y^{18} - 12y^{17} + \dots - 81y + 1)$ $\cdot (y^{42} - 59y^{41} + \dots - 9108213y + 508369)$