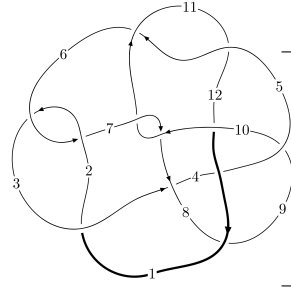
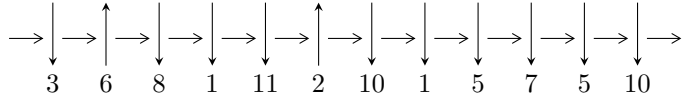


12n₀₃₆₁ (K12n₀₃₆₁)



A knot diagram¹

Linearized knot diagram



Solving Sequence

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

Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -8.05168 \times 10^{34} u^{53} + 1.07637 \times 10^{35} u^{52} + \dots + 6.87463 \times 10^{34} b - 6.05852 \times 10^{33}, \\ 1.46995 \times 10^{35} u^{53} - 2.86110 \times 10^{35} u^{52} + \dots + 6.87463 \times 10^{34} a + 1.14483 \times 10^{36}, u^{54} - 2u^{53} + \dots + 7u + 1 \rangle$$

$$I_2^u = \langle -u^{17} - 2u^{16} + \dots + b - 2, -2u^{17} - u^{16} + \dots + a - 2u, u^{18} + u^{17} + \dots + u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 72 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.

$$I_1^u = \langle -8.05 \times 10^{34} u^{53} + 1.08 \times 10^{35} u^{52} + \dots + 6.87 \times 10^{34} b - 6.06 \times 10^{33}, 1.47 \times 10^{35} u^{53} - 2.86 \times 10^{35} u^{52} + \dots + 6.87 \times 10^{34} a + 1.14 \times 10^{36}, u^{54} - 2u^{53} + \dots + 7u + 1 \rangle$$

(i) Arc colorings

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

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

$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

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

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

$$a_{11} = \begin{pmatrix} -2.13823u^{53} + 4.16183u^{52} + \dots + 32.8959u - 16.6530 \\ 1.17122u^{53} - 1.56572u^{52} + \dots - 4.86988u + 0.0881286 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1.09873u^{53} - 2.43744u^{52} + \dots - 25.3391u + 18.7511 \\ -0.466742u^{53} + 0.548863u^{52} + \dots + 1.52955u - 0.570206 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.26181u^{53} - 2.68085u^{52} + \dots - 26.6668u + 18.5566 \\ -0.318054u^{53} + 0.489820u^{52} + \dots + 3.00911u - 0.691152 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.967010u^{53} + 2.59611u^{52} + \dots + 28.0260u - 16.5649 \\ 1.17122u^{53} - 1.56572u^{52} + \dots - 4.86988u + 0.0881286 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -1.33496u^{53} + 2.06007u^{52} + \dots + 16.5981u - 12.0861 \\ -0.518639u^{53} + 0.583965u^{52} + \dots + 0.382552u + 0.726746 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.951780u^{53} + 1.73096u^{52} + \dots + 16.4888u - 12.1502 \\ -0.301232u^{53} + 0.483930u^{52} + \dots + 1.35754u + 0.613972 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -3.98736u^{53} + 8.09125u^{52} + \dots + 69.3422u - 34.0361 \\ -0.388553u^{53} + 0.437828u^{52} + \dots + 1.16197u + 1.80831 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = $-2.52952u^{53} + 4.81017u^{52} + \dots + 32.1330u - 13.0471$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{54} + 20u^{53} + \dots - 87u + 1$
c_2, c_6	$u^{54} - 2u^{53} + \dots + 7u + 1$
c_3, c_9	$u^{54} - u^{53} + \dots + 10u - 1$
c_4	$u^{54} - 3u^{53} + \dots + 16u + 1$
c_5, c_{11}	$u^{54} + u^{53} + \dots - 200u - 449$
c_7, c_{10}	$u^{54} - 5u^{53} + \dots + 436u - 41$
c_8	$u^{54} + 3u^{53} + \dots - 50452u - 32411$
c_{12}	$u^{54} - 5u^{53} + \dots - 22095u + 889$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{54} + 36y^{53} + \dots - 6711y + 1$
c_2, c_6	$y^{54} + 20y^{53} + \dots - 87y + 1$
c_3, c_9	$y^{54} - 67y^{53} + \dots - 88y + 1$
c_4	$y^{54} - 93y^{53} + \dots - 30y + 1$
c_5, c_{11}	$y^{54} + 25y^{53} + \dots + 1723672y + 201601$
c_7, c_{10}	$y^{54} + 25y^{53} + \dots - 41512y + 1681$
c_8	$y^{54} - 65y^{53} + \dots - 8887523962y + 1050472921$
c_{12}	$y^{54} - 73y^{53} + \dots - 593861y + 790321$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.782221 + 0.634653I$ $a = -0.195755 + 0.247117I$ $b = -0.41123 + 1.41581I$	$4.48864 + 3.39067I$	$-4.34936 - 2.94495I$
$u = -0.782221 - 0.634653I$ $a = -0.195755 - 0.247117I$ $b = -0.41123 - 1.41581I$	$4.48864 - 3.39067I$	$-4.34936 + 2.94495I$
$u = -0.977318 + 0.276740I$ $a = -0.0878048 - 0.0221906I$ $b = 0.424255 + 0.996657I$	$-5.26391 - 2.95255I$	$-5.80358 + 3.54585I$
$u = -0.977318 - 0.276740I$ $a = -0.0878048 + 0.0221906I$ $b = 0.424255 - 0.996657I$	$-5.26391 + 2.95255I$	$-5.80358 - 3.54585I$
$u = 0.624202 + 0.755472I$ $a = 0.453136 + 0.731003I$ $b = -0.108485 + 1.364720I$	$3.16221 + 2.63478I$	$-6.89633 - 3.54122I$
$u = 0.624202 - 0.755472I$ $a = 0.453136 - 0.731003I$ $b = -0.108485 - 1.364720I$	$3.16221 - 2.63478I$	$-6.89633 + 3.54122I$
$u = 0.775989 + 0.663204I$ $a = -1.14721 - 1.07182I$ $b = 1.33969 - 0.51090I$	$-5.82772 - 0.87480I$	$-6.95939 - 0.10046I$
$u = 0.775989 - 0.663204I$ $a = -1.14721 + 1.07182I$ $b = 1.33969 + 0.51090I$	$-5.82772 + 0.87480I$	$-6.95939 + 0.10046I$
$u = -0.716852 + 0.650173I$ $a = 1.11464 - 1.50236I$ $b = 0.267394 - 0.730103I$	$-6.42976 + 0.18074I$	$-5.35993 - 0.34747I$
$u = -0.716852 - 0.650173I$ $a = 1.11464 + 1.50236I$ $b = 0.267394 + 0.730103I$	$-6.42976 - 0.18074I$	$-5.35993 + 0.34747I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.594108 + 0.867348I$ $a = 1.02463 - 1.10108I$ $b = -1.340650 + 0.132088I$	$-1.16353 - 2.34293I$	$-3.59630 + 5.63955I$
$u = -0.594108 - 0.867348I$ $a = 1.02463 + 1.10108I$ $b = -1.340650 - 0.132088I$	$-1.16353 + 2.34293I$	$-3.59630 - 5.63955I$
$u = 0.010981 + 1.054630I$ $a = 0.72169 - 1.40947I$ $b = -0.409945 + 1.038840I$	$-1.20571 + 2.80469I$	$-12.64158 - 4.77437I$
$u = 0.010981 - 1.054630I$ $a = 0.72169 + 1.40947I$ $b = -0.409945 - 1.038840I$	$-1.20571 - 2.80469I$	$-12.64158 + 4.77437I$
$u = -0.026887 + 1.056610I$ $a = -1.86596 + 0.02219I$ $b = 0.945058 - 0.845598I$	$-11.48580 - 0.47734I$	$-13.44450 + 0.I$
$u = -0.026887 - 1.056610I$ $a = -1.86596 - 0.02219I$ $b = 0.945058 + 0.845598I$	$-11.48580 + 0.47734I$	$-13.44450 + 0.I$
$u = 0.238163 + 1.041600I$ $a = -0.453012 + 1.312980I$ $b = -0.151747 - 0.544879I$	$-0.264943 + 0.782686I$	$-8.72185 + 0.87919I$
$u = 0.238163 - 1.041600I$ $a = -0.453012 - 1.312980I$ $b = -0.151747 + 0.544879I$	$-0.264943 - 0.782686I$	$-8.72185 - 0.87919I$
$u = -0.213122 + 0.886225I$ $a = 1.87729 - 0.42780I$ $b = -0.854175 - 0.507735I$	$-2.99097 - 1.86676I$	$-15.5248 + 2.2145I$
$u = -0.213122 - 0.886225I$ $a = 1.87729 + 0.42780I$ $b = -0.854175 + 0.507735I$	$-2.99097 + 1.86676I$	$-15.5248 - 2.2145I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.554630 + 0.711383I$ $a = 0.666586 + 0.663185I$ $b = -0.632614 - 1.163320I$	$2.75948 - 0.58527I$	$-6.51121 - 1.30492I$
$u = 0.554630 - 0.711383I$ $a = 0.666586 - 0.663185I$ $b = -0.632614 + 1.163320I$	$2.75948 + 0.58527I$	$-6.51121 + 1.30492I$
$u = 0.642108 + 0.935178I$ $a = -1.63379 - 0.11874I$ $b = 0.101662 - 1.230990I$	$2.59369 + 2.34772I$	$-8.00000 + 0.I$
$u = 0.642108 - 0.935178I$ $a = -1.63379 + 0.11874I$ $b = 0.101662 + 1.230990I$	$2.59369 - 2.34772I$	$-8.00000 + 0.I$
$u = 0.957330 + 0.627734I$ $a = -0.0824892 - 0.0033199I$ $b = 0.73765 + 1.30778I$	$-2.98894 - 8.13870I$	$-8.00000 + 3.35962I$
$u = 0.957330 - 0.627734I$ $a = -0.0824892 + 0.0033199I$ $b = 0.73765 - 1.30778I$	$-2.98894 + 8.13870I$	$-8.00000 - 3.35962I$
$u = 0.588547 + 0.982520I$ $a = 1.96371 - 0.17505I$ $b = -0.758072 + 0.897967I$	$1.85903 + 5.19987I$	$-8.00000 - 5.59193I$
$u = 0.588547 - 0.982520I$ $a = 1.96371 + 0.17505I$ $b = -0.758072 - 0.897967I$	$1.85903 - 5.19987I$	$-8.00000 + 5.59193I$
$u = 0.276388 + 0.802714I$ $a = -0.813277 - 0.007279I$ $b = 0.173039 + 0.072417I$	$-0.465364 + 1.306920I$	$-5.27166 - 4.29457I$
$u = 0.276388 - 0.802714I$ $a = -0.813277 + 0.007279I$ $b = 0.173039 - 0.072417I$	$-0.465364 - 1.306920I$	$-5.27166 + 4.29457I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.838110 + 0.796599I$ $a = -0.256450 + 0.157165I$ $b = 0.516019 - 1.021330I$	$6.91184 - 0.61269I$	0
$u = -0.838110 - 0.796599I$ $a = -0.256450 - 0.157165I$ $b = 0.516019 + 1.021330I$	$6.91184 + 0.61269I$	0
$u = -0.663079 + 1.010530I$ $a = -0.785137 + 1.170500I$ $b = 0.347854 + 1.011880I$	$-7.52025 - 5.50179I$	0
$u = -0.663079 - 1.010530I$ $a = -0.785137 - 1.170500I$ $b = 0.347854 - 1.011880I$	$-7.52025 + 5.50179I$	0
$u = 0.846451 + 0.872894I$ $a = -0.251748 - 0.075444I$ $b = -0.431221 - 0.973967I$	$3.50126 + 0.93079I$	0
$u = 0.846451 - 0.872894I$ $a = -0.251748 + 0.075444I$ $b = -0.431221 + 0.973967I$	$3.50126 - 0.93079I$	0
$u = 0.691798 + 1.020090I$ $a = -0.736000 - 1.034630I$ $b = 1.40572 + 0.65983I$	$-6.91490 + 6.44905I$	0
$u = 0.691798 - 1.020090I$ $a = -0.736000 + 1.034630I$ $b = 1.40572 - 0.65983I$	$-6.91490 - 6.44905I$	0
$u = -0.685621 + 1.030320I$ $a = 1.85848 - 0.20635I$ $b = -0.56316 - 1.42285I$	$3.29320 - 8.95161I$	0
$u = -0.685621 - 1.030320I$ $a = 1.85848 + 0.20635I$ $b = -0.56316 + 1.42285I$	$3.29320 + 8.95161I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.814791 + 0.938243I$ $a = 1.082890 + 0.699947I$ $b = -0.565715 + 0.957837I$	$3.28563 + 5.26424I$	0
$u = 0.814791 - 0.938243I$ $a = 1.082890 - 0.699947I$ $b = -0.565715 - 0.957837I$	$3.28563 - 5.26424I$	0
$u = -0.783368 + 0.973705I$ $a = -1.53300 + 0.36496I$ $b = 0.642887 + 0.900173I$	$6.36672 - 5.44538I$	0
$u = -0.783368 - 0.973705I$ $a = -1.53300 - 0.36496I$ $b = 0.642887 - 0.900173I$	$6.36672 + 5.44538I$	0
$u = -0.169579 + 1.266130I$ $a = -1.24464 - 0.96277I$ $b = 0.714749 + 0.999139I$	$-10.81370 - 6.61602I$	0
$u = -0.169579 - 1.266130I$ $a = -1.24464 + 0.96277I$ $b = 0.714749 - 0.999139I$	$-10.81370 + 6.61602I$	0
$u = 0.753233 + 1.099800I$ $a = -1.82443 - 0.33859I$ $b = 0.84183 - 1.33565I$	$-4.4657 + 14.4090I$	0
$u = 0.753233 - 1.099800I$ $a = -1.82443 + 0.33859I$ $b = 0.84183 + 1.33565I$	$-4.4657 - 14.4090I$	0
$u = -0.564814 + 1.229530I$ $a = 0.345121 + 0.886401I$ $b = 0.335671 - 0.800648I$	$-8.30076 - 2.64729I$	0
$u = -0.564814 - 1.229530I$ $a = 0.345121 - 0.886401I$ $b = 0.335671 + 0.800648I$	$-8.30076 + 2.64729I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.444579 + 0.121551I$ $a = -0.860489 + 0.135214I$ $b = -0.187796 + 1.115610I$	$2.66689 + 1.69511I$	$-1.25940 - 4.46780I$
$u = 0.444579 - 0.121551I$ $a = -0.860489 - 0.135214I$ $b = -0.187796 - 1.115610I$	$2.66689 - 1.69511I$	$-1.25940 + 4.46780I$
$u = -0.297162$ $a = -0.983290$ $b = -0.513330$	-0.837204	-11.6370
$u = -0.111060$ $a = -19.6906$ $b = 0.755994$	-7.69304	-16.8530

II.

$$I_2^u = \langle -u^{17} - 2u^{16} + \dots + b - 2, -2u^{17} - u^{16} + \dots + a - 2u, u^{18} + u^{17} + \dots + u + 1 \rangle$$

(i) Arc colorings

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

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

$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

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

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

$$a_{11} = \begin{pmatrix} 2u^{17} + u^{16} + \dots + 7u^2 + 2u \\ u^{17} + 2u^{16} + \dots + 4u + 2 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u^{16} + u^{15} + \dots + 6u + 1 \\ -u^{17} - u^{16} + \dots - u + 2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} u^{15} + 3u^{13} + 8u^{11} + 13u^9 + 17u^7 - u^6 + 16u^5 + 11u^3 - 2u^2 + 6u \\ -u^{17} - u^{16} + \dots + u^2 + 2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 3u^{17} + 3u^{16} + \dots + 6u + 2 \\ u^{17} + 2u^{16} + \dots + 4u + 2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u^{16} - u^{15} + \dots - 3u - 4 \\ 2u^{17} + 2u^{16} + \dots + 4u - 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u^{16} - u^{15} + \dots - 3u - 4 \\ 2u^{17} + 2u^{16} + \dots + 6u^2 + 4u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u^{17} + u^{16} + \dots - u + 5 \\ -u^{17} - u^{16} + \dots - 4u - 1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes $= u^{17} + 2u^{16} + 4u^{15} + 7u^{14} + 11u^{13} + 19u^{12} + 22u^{11} + 31u^{10} + 32u^9 + 40u^8 + 38u^7 + 34u^6 + 33u^5 + 19u^4 + 21u^3 + 2u^2 + 8u - 12$

(iv) u -Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{18} + 15y^{17} + \dots - 9y + 1$
c_2, c_6	$y^{18} + 7y^{17} + \dots + 11y + 1$
c_3, c_9	$y^{18} - 20y^{17} + \dots - 2y + 1$
c_4	$y^{18} - 6y^{17} + \dots + 16y + 1$
c_5, c_{11}	$y^{18} + 12y^{17} + \dots + 14y + 1$
c_7, c_{10}	$y^{18} + 8y^{17} + \dots - 6y + 1$
c_8	$y^{18} - 6y^{17} + \dots + 8y + 1$
c_{12}	$y^{18} - 10y^{17} + \dots + 41y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.091159 + 1.006750I$ $a = -0.59976 + 1.69234I$ $b = 0.388323 - 0.837519I$	$-0.09795 + 2.04194I$	$-8.19600 - 3.28582I$
$u = 0.091159 - 1.006750I$ $a = -0.59976 - 1.69234I$ $b = 0.388323 + 0.837519I$	$-0.09795 - 2.04194I$	$-8.19600 + 3.28582I$
$u = 0.428224 + 0.818772I$ $a = -1.047530 - 0.864539I$ $b = 0.969311 - 0.074817I$	$-1.77131 + 1.77665I$	$-11.30886 - 0.92535I$
$u = 0.428224 - 0.818772I$ $a = -1.047530 + 0.864539I$ $b = 0.969311 + 0.074817I$	$-1.77131 - 1.77665I$	$-11.30886 + 0.92535I$
$u = 0.809863 + 0.775804I$ $a = 0.085335 - 0.361987I$ $b = -0.063154 - 1.130870I$	$5.17943 + 2.43180I$	$-3.07617 - 3.07688I$
$u = 0.809863 - 0.775804I$ $a = 0.085335 + 0.361987I$ $b = -0.063154 + 1.130870I$	$5.17943 - 2.43180I$	$-3.07617 + 3.07688I$
$u = -0.818820 + 0.829999I$ $a = -0.074029 + 0.382486I$ $b = 0.79917 - 1.22352I$	$6.09112 + 0.44976I$	$-5.66829 - 1.09802I$
$u = -0.818820 - 0.829999I$ $a = -0.074029 - 0.382486I$ $b = 0.79917 + 1.22352I$	$6.09112 - 0.44976I$	$-5.66829 + 1.09802I$
$u = -0.504823 + 1.105300I$ $a = -0.154172 + 0.197850I$ $b = -0.504990 + 0.129328I$	$-9.12920 - 3.64508I$	$-11.43133 + 3.76283I$
$u = -0.504823 - 1.105300I$ $a = -0.154172 - 0.197850I$ $b = -0.504990 - 0.129328I$	$-9.12920 + 3.64508I$	$-11.43133 - 3.76283I$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.785279 + 0.951987I$ $a = -1.67084 + 0.49888I$ $b = 0.87993 + 1.12839I$	$5.71337 - 6.46460I$	$-6.13451 + 6.89115I$
$u = -0.785279 - 0.951987I$ $a = -1.67084 - 0.49888I$ $b = 0.87993 - 1.12839I$	$5.71337 + 6.46460I$	$-6.13451 - 6.89115I$
$u = -0.521000 + 0.558610I$ $a = 0.59336 - 2.95727I$ $b = -0.677831 - 0.107119I$	$-7.27036 - 0.63283I$	$-11.04604 + 6.53524I$
$u = -0.521000 - 0.558610I$ $a = 0.59336 + 2.95727I$ $b = -0.677831 + 0.107119I$	$-7.27036 + 0.63283I$	$-11.04604 - 6.53524I$
$u = 0.756396 + 0.998306I$ $a = 1.397980 + 0.092696I$ $b = -0.143221 + 0.991419I$	$4.49100 + 3.47686I$	$-4.58711 - 2.67317I$
$u = 0.756396 - 0.998306I$ $a = 1.397980 - 0.092696I$ $b = -0.143221 - 0.991419I$	$4.49100 - 3.47686I$	$-4.58711 + 2.67317I$
$u = 0.044280 + 0.568991I$ $a = -1.53033 + 0.05306I$ $b = 0.352467 + 1.264600I$	$1.72870 - 1.47373I$	$-11.55167 + 1.90648I$
$u = 0.044280 - 0.568991I$ $a = -1.53033 - 0.05306I$ $b = 0.352467 - 1.264600I$	$1.72870 + 1.47373I$	$-11.55167 - 1.90648I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{18} - 7u^{17} + \dots - 11u + 1)(u^{54} + 20u^{53} + \dots - 87u + 1)$
c_2	$(u^{18} - u^{17} + \dots - u + 1)(u^{54} - 2u^{53} + \dots + 7u + 1)$
c_3	$(u^{18} - 10u^{16} + \dots - 4u + 1)(u^{54} - u^{53} + \dots + 10u - 1)$
c_4	$(u^{18} + 4u^{17} + \dots + 10u + 1)(u^{54} - 3u^{53} + \dots + 16u + 1)$
c_5	$(u^{18} + 6u^{16} + \dots + 4u + 1)(u^{54} + u^{53} + \dots - 200u - 449)$
c_6	$(u^{18} + u^{17} + \dots + u + 1)(u^{54} - 2u^{53} + \dots + 7u + 1)$
c_7	$(u^{18} - 4u^{17} + \dots + 2u + 1)(u^{54} - 5u^{53} + \dots + 436u - 41)$
c_8	$(u^{18} + 2u^{17} + \dots - 4u + 1)(u^{54} + 3u^{53} + \dots - 50452u - 32411)$
c_9	$(u^{18} - 10u^{16} + \dots + 4u + 1)(u^{54} - u^{53} + \dots + 10u - 1)$
c_{10}	$(u^{18} + 4u^{17} + \dots - 2u + 1)(u^{54} - 5u^{53} + \dots + 436u - 41)$
c_{11}	$(u^{18} + 6u^{16} + \dots - 4u + 1)(u^{54} + u^{53} + \dots - 200u - 449)$
c_{12}	$(u^{18} + 6u^{17} + \dots + 3u + 1)(u^{54} - 5u^{53} + \dots - 22095u + 889)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{18} + 15y^{17} + \dots - 9y + 1)(y^{54} + 36y^{53} + \dots - 6711y + 1)$
c_2, c_6	$(y^{18} + 7y^{17} + \dots + 11y + 1)(y^{54} + 20y^{53} + \dots - 87y + 1)$
c_3, c_9	$(y^{18} - 20y^{17} + \dots - 2y + 1)(y^{54} - 67y^{53} + \dots - 88y + 1)$
c_4	$(y^{18} - 6y^{17} + \dots + 16y + 1)(y^{54} - 93y^{53} + \dots - 30y + 1)$
c_5, c_{11}	$(y^{18} + 12y^{17} + \dots + 14y + 1)$ $\cdot (y^{54} + 25y^{53} + \dots + 1723672y + 201601)$
c_7, c_{10}	$(y^{18} + 8y^{17} + \dots - 6y + 1)(y^{54} + 25y^{53} + \dots - 41512y + 1681)$
c_8	$(y^{18} - 6y^{17} + \dots + 8y + 1)$ $\cdot (y^{54} - 65y^{53} + \dots - 8887523962y + 1050472921)$
c_{12}	$(y^{18} - 10y^{17} + \dots + 41y + 1)(y^{54} - 73y^{53} + \dots - 593861y + 790321)$