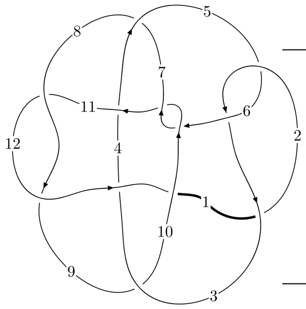
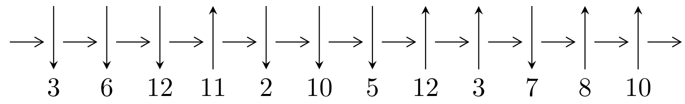
$12n_{0485}$ ($K12n_{0485}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$
\begin{aligned}
I_1^u = \langle & 1.68088 \times 10^{114} u^{49} + 4.16169 \times 10^{114} u^{48} + \cdots + 7.67515 \times 10^{115} b + 4.28407 \times 10^{115}, \\
& - 6.82277 \times 10^{115} u^{49} - 1.30399 \times 10^{116} u^{48} + \cdots + 5.37260 \times 10^{116} a + 7.15218 \times 10^{117}, \\
& u^{50} + 2u^{49} + \cdots - 457u - 23 \rangle \\
I_2^u = \langle & -326316u^{14} - 428568u^{13} + \cdots + 738005b - 1963248, \\
& - 516082u^{14} - 337061u^{13} + \cdots + 738005a - 2248216, \\
& u^{15} + u^{14} - 6u^{13} - 13u^{12} + 11u^{11} + 48u^{10} + 15u^9 - 72u^8 - 69u^7 + 41u^6 + 80u^5 + u^4 - 39u^3 - 6u^2 + 7u - 1
\end{aligned}
$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 65 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. $\boldsymbol{I^u_1 = \langle 1.68 \times 10^{114} u^{49} + 4.16 \times 10^{114} u^{48} + \cdots + 7.68 \times 10^{115} b + 4.28 \times 10^{115},\ -6.82 \times 10^{115} u^{49} - 1.30 \times 10^{116} u^{48} + \cdots + 5.37 \times 10^{116} a + 7.15 \times 10^{117},\ u^{50} + 2u^{49} + \cdots - 457u - 23 \rangle}$

(i) Arc colorings

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

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

$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.126992u^{49} + 0.242711u^{48} + \cdots - 212.139u - 13.3123 \\ -0.0219003u^{49} - 0.0542229u^{48} + \cdots - 4.04389u - 0.558174 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.105092u^{49} + 0.188488u^{48} + \cdots - 216.183u - 13.8705 \\ -0.0219003u^{49} - 0.0542229u^{48} + \cdots - 4.04389u - 0.558174 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.0244401u^{49} - 0.0544173u^{48} + \cdots + 64.2416u + 6.94455 \\ 0.0202777u^{49} + 0.0488855u^{48} + \cdots - 0.453421u - 0.822925 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.125355u^{49} + 0.236460u^{48} + \cdots - 229.828u - 15.6829 \\ 0.0231342u^{49} + 0.0609480u^{48} + \cdots + 55.0377u + 2.61238 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.121315u^{49} - 0.239466u^{48} + \cdots + 307.315u + 24.6209 \\ 0.0144984u^{49} + 0.0160292u^{48} + \cdots - 43.7020u - 2.79868 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.111866u^{49} + 0.205756u^{48} + \cdots - 237.020u - 15.8895 \\ 0.0326281u^{49} + 0.0837666u^{48} + \cdots + 60.2174u + 2.73337 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.0244401u^{49} - 0.0544173u^{48} + \cdots + 64.2416u + 6.94455 \\ 0.0232371u^{49} + 0.0518221u^{48} + \cdots - 3.54599u - 0.950278 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.143868u^{49} - 0.280796u^{48} + \cdots + 334.339u + 27.3191 \\ 0.0289298u^{49} + 0.0544418u^{48} + \cdots - 28.4198u - 2.35108 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.270594u^{49} - 0.467859u^{48} + \cdots - 63.7985u - 8.23325$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{50} + 38u^{49} + \cdots - 888u + 361$
c_2, c_5	$u^{50} - 19u^{48} + \cdots + 86u + 19$
c_3	$u^{50} - 9u^{49} + \cdots + 7672u + 449$
c_4	$u^{50} - 3u^{49} + \cdots - 316u - 239$
c_6, c_{10}	$u^{50} + 2u^{49} + \cdots - 457u - 23$
c_7	$u^{50} - 5u^{49} + \cdots - 18u + 1$
c_8, c_{11}	$u^{50} - 3u^{49} + \cdots + 7u + 1$
c_9	$u^{50} - u^{49} + \cdots - 48u - 119$
c_{12}	$u^{50} + 3u^{49} + \cdots - 36385u - 1997$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{50} - 42y^{49} + \cdots + 7137572y + 130321$
c_2, c_5	$y^{50} - 38y^{49} + \cdots + 888y + 361$
c_3	$y^{50} - 85y^{49} + \cdots - 26826128y + 201601$
c_4	$y^{50} + 31y^{49} + \cdots + 1567408y + 57121$
c_6, c_{10}	$y^{50} - 50y^{49} + \cdots - 75863y + 529$
c_7	$y^{50} + 7y^{49} + \cdots - 88y + 1$
c_8, c_{11}	$y^{50} - 9y^{49} + \cdots - 19y + 1$
c_9	$y^{50} + 57y^{49} + \cdots + 139782y + 14161$
c_{12}	$y^{50} + 95y^{49} + \cdots - 251387363y + 3988009$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.962392$ $a = -1.01045$ $b = -1.32074$	-2.96141	2.27250
$u = -0.914795 + 0.294994I$ $a = 0.348985 - 1.244120I$ $b = -0.336309 + 0.574877I$	$-1.75231 + 1.61093I$	$-2.00000 - 4.17914I$
$u = -0.914795 - 0.294994I$ $a = 0.348985 + 1.244120I$ $b = -0.336309 - 0.574877I$	$-1.75231 - 1.61093I$	$-2.00000 + 4.17914I$
$u = 0.188071 + 0.934572I$ $a = -1.32544 - 0.55559I$ $b = -0.330034 + 0.374073I$	$-3.45737 - 4.06670I$	$-60.298116 + 0.10I$
$u = 0.188071 - 0.934572I$ $a = -1.32544 + 0.55559I$ $b = -0.330034 - 0.374073I$	$-3.45737 + 4.06670I$	$-60.298116 + 0.10I$
$u = -1.063020 + 0.238205I$ $a = 0.513483 - 0.668053I$ $b = -0.219406 + 0.431806I$	$-1.88900 + 1.18238I$	0
$u = -1.063020 - 0.238205I$ $a = 0.513483 + 0.668053I$ $b = -0.219406 - 0.431806I$	$-1.88900 - 1.18238I$	0
$u = -1.12876$ $a = -2.19559$ $b = -1.15007$	-3.84446	56.7750
$u = -0.201542 + 1.118180I$ $a = -0.163469 + 0.515966I$ $b = 0.939070 - 0.303988I$	$-0.56528 + 3.67939I$	$0. - 8.30272I$
$u = -0.201542 - 1.118180I$ $a = -0.163469 - 0.515966I$ $b = 0.939070 + 0.303988I$	$-0.56528 - 3.67939I$	$0. + 8.30272I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.133680+0.426918I$ $a=0.19890-1.42670I$ $b=-1.125150+0.186429I$	$-3.75163+1.13848I$	0
$u=-1.133680-0.426918I$ $a=0.19890+1.42670I$ $b=-1.125150-0.186429I$	$-3.75163-1.13848I$	0
$u=1.166960+0.482292I$ $a=-0.242984+0.621460I$ $b=0.025892-0.730255I$	$-1.46117-5.17618I$	0
$u=1.166960-0.482292I$ $a=-0.242984-0.621460I$ $b=0.025892+0.730255I$	$-1.46117+5.17618I$	0
$u=1.161870+0.501646I$ $a=0.174398-0.201602I$ $b=0.852089-0.342703I$	$2.18914+1.57391I$	0
$u=1.161870-0.501646I$ $a=0.174398+0.201602I$ $b=0.852089+0.342703I$	$2.18914-1.57391I$	0
$u=0.279120+0.649040I$ $a=0.526491-0.708843I$ $b=0.200176+0.379822I$	$1.27220+0.82528I$	$4.71608-1.63337I$
$u=0.279120-0.649040I$ $a=0.526491+0.708843I$ $b=0.200176-0.379822I$	$1.27220-0.82528I$	$4.71608+1.63337I$
$u=-1.406050+0.128958I$ $a=-0.090166+1.145330I$ $b=1.49695-0.61870I$	$-13.59260-1.25874I$	0
$u=-1.406050-0.128958I$ $a=-0.090166-1.145330I$ $b=1.49695+0.61870I$	$-13.59260+1.25874I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.40806+0.28799I$ $a=-0.208667+0.877622I$ $b=-0.799188-0.695079I$	$-1.71585-2.64303I$	0
$u=-1.40806-0.28799I$ $a=-0.208667-0.877622I$ $b=-0.799188+0.695079I$	$-1.71585+2.64303I$	0
$u=1.38930+0.44579I$ $a=0.530144-0.813142I$ $b=1.290420+0.327880I$	$-5.44067-9.04729I$	0
$u=1.38930-0.44579I$ $a=0.530144+0.813142I$ $b=1.290420-0.327880I$	$-5.44067+9.04729I$	0
$u=0.499788+0.001448I$ $a=-0.058887-0.899672I$ $b=0.908853+0.846009I$	$4.40130-3.14257I$	$-9.86497+6.30227I$
$u=0.499788-0.001448I$ $a=-0.058887+0.899672I$ $b=0.908853-0.846009I$	$4.40130+3.14257I$	$-9.86497-6.30227I$
$u=-1.47559+0.28198I$ $a=-0.081256+1.075060I$ $b=0.042685-1.259730I$	$-9.03640+8.03955I$	0
$u=-1.47559-0.28198I$ $a=-0.081256-1.075060I$ $b=0.042685+1.259730I$	$-9.03640-8.03955I$	0
$u=-0.187501+0.455490I$ $a=-3.04218+1.68708I$ $b=1.382520+0.000995I$	$-9.25542+3.21801I$	$-8.68028-2.26278I$
$u=-0.187501-0.455490I$ $a=-3.04218-1.68708I$ $b=1.382520-0.000995I$	$-9.25542-3.21801I$	$-8.68028+2.26278I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.50019 + 0.27239I$ $a = -0.051146 - 1.185010I$ $b = 1.44274 + 0.53398I$	$-15.1134 - 6.2855I$	0
$u = 1.50019 - 0.27239I$ $a = -0.051146 + 1.185010I$ $b = 1.44274 - 0.53398I$	$-15.1134 + 6.2855I$	0
$u = 1.53985 + 0.12206I$ $a = -0.124852 - 1.057310I$ $b = -0.048220 + 1.175680I$	$-10.37170 + 0.19283I$	0
$u = 1.53985 - 0.12206I$ $a = -0.124852 + 1.057310I$ $b = -0.048220 - 1.175680I$	$-10.37170 - 0.19283I$	0
$u = 1.54597 + 0.25810I$ $a = -0.163723 - 0.343395I$ $b = -1.314650 + 0.219888I$	$-5.75356 - 1.82353I$	0
$u = 1.54597 - 0.25810I$ $a = -0.163723 + 0.343395I$ $b = -1.314650 - 0.219888I$	$-5.75356 + 1.82353I$	0
$u = -1.37962 + 0.95465I$ $a = -0.320379 + 0.766815I$ $b = 1.42544 - 0.21562I$	$-7.41648 + 4.49387I$	0
$u = -1.37962 - 0.95465I$ $a = -0.320379 - 0.766815I$ $b = 1.42544 + 0.21562I$	$-7.41648 - 4.49387I$	0
$u = -0.176458 + 0.261015I$ $a = 2.19741 - 2.19418I$ $b = -0.984299 - 0.645971I$	$2.84989 - 2.54700I$	$0.20027 + 2.87410I$
$u = -0.176458 - 0.261015I$ $a = 2.19741 + 2.19418I$ $b = -0.984299 + 0.645971I$	$2.84989 + 2.54700I$	$0.20027 - 2.87410I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.67091 + 0.40185I$ $a = 0.133031 + 0.469663I$ $b = 1.308980 - 0.234411I$	$-6.47062 + 3.76881I$	0
$u = -1.67091 - 0.40185I$ $a = 0.133031 - 0.469663I$ $b = 1.308980 + 0.234411I$	$-6.47062 - 3.76881I$	0
$u = -1.73086 + 0.55706I$ $a = 0.105414 - 0.948189I$ $b = -1.46194 + 0.56733I$	$-13.8255 + 14.4892I$	0
$u = -1.73086 - 0.55706I$ $a = 0.105414 + 0.948189I$ $b = -1.46194 - 0.56733I$	$-13.8255 - 14.4892I$	0
$u = 1.81370 + 0.37242I$ $a = 0.097510 + 0.883592I$ $b = -1.40613 - 0.59107I$	$-14.6308 - 6.0935I$	0
$u = 1.81370 - 0.37242I$ $a = 0.097510 - 0.883592I$ $b = -1.40613 + 0.59107I$	$-14.6308 + 6.0935I$	0
$u = -0.1120250 + 0.0235911I$ $a = 5.77586 - 3.15149I$ $b = -0.849378 + 0.151074I$	$-1.45480 + 0.34218I$	$-6.89829 + 0.51719I$
$u = -0.1120250 - 0.0235911I$ $a = 5.77586 + 3.15149I$ $b = -0.849378 - 0.151074I$	$-1.45480 - 0.34218I$	$-6.89829 - 0.51719I$
$u = 0.85847 + 1.91212I$ $a = 0.591928 + 0.361934I$ $b = -1.205700 - 0.185859I$	$-6.19255 - 6.25623I$	0
$u = 0.85847 - 1.91212I$ $a = 0.591928 - 0.361934I$ $b = -1.205700 + 0.185859I$	$-6.19255 + 6.25623I$	0

II.

$$\boldsymbol{I_2^u = \langle -3.26\times 10^5u^{14} - 4.29\times 10^5u^{13} + \cdots + 7.38\times 10^5b - 1.96\times 10^6,\ -5.16\times 10^5u^{14} - 3.37\times 10^5u^{13} + \cdots + 7.38\times 10^5a - 2.25\times 10^6,\ u^{15} + u^{14} + \cdots + 7u - 1\rangle}$$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} 0.699293u^{14} + 0.456719u^{13} + \cdots - 8.14388u + 3.04634 \\ 0.442160u^{14} + 0.580712u^{13} + \cdots - 4.70877u + 2.66021 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1.14145u^{14} + 1.03743u^{13} + \cdots - 12.8527u + 5.70655 \\ 0.442160u^{14} + 0.580712u^{13} + \cdots - 4.70877u + 2.66021 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} 0.701112u^{14} + 0.979793u^{13} + \cdots - 10.1395u + 6.46055 \\ -0.0843436u^{14} - 0.544892u^{13} + \cdots + 10.4553u - 0.463978 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -1.76423u^{14} - 2.44279u^{13} + \cdots + 26.2734u - 5.77124 \\ -1.06494u^{14} - 0.986071u^{13} + \cdots + 11.1296u - 3.72490 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -0.840260u^{14} - 0.979408u^{13} + \cdots + 8.72051u - 6.30081 \\ 0.440341u^{14} + 0.0576378u^{13} + \cdots - 2.71316u - 0.753996 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -1.45570u^{14} - 2.40598u^{13} + \cdots + 25.6851u - 5.33526 \\ -0.956101u^{14} - 1.06517u^{13} + \cdots + 13.9285u - 4.43261 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} 0.701112u^{14} + 0.979793u^{13} + \cdots - 10.1395u + 6.46055 \\ -0.446840u^{14} - 0.697475u^{13} + \cdots + 9.20568u - 0.185297 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 0.159740u^{14} + 0.0205920u^{13} + \cdots + 2.72051u - 0.300808 \\ -0.757426u^{14} - 0.700316u^{13} + \cdots + 2.84871u - 0.699293 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{337434}{738005}u^{14} - \frac{617487}{738005}u^{13} + \cdots + \frac{14750433}{738005}u + \frac{4380108}{738005}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{15} - 9u^{14} + \cdots + 14u - 1$
c_2	$u^{15} + u^{14} + \cdots - 2u - 1$
c_3	$u^{15} + 4u^{14} + \cdots + 14u + 1$
c_4	$u^{15} + 6u^{13} + \cdots + 2u + 1$
c_5	$u^{15} - u^{14} + \cdots - 2u + 1$
c_6	$u^{15} + u^{14} + \cdots + 7u - 1$
c_7	$u^{15} + 2u^{14} + \cdots - 2u - 1$
c_8	$u^{15} - 4u^{14} + \cdots + u + 1$
c_9	$u^{15} + 7u^{13} + \cdots - 4u - 1$
c_{10}	$u^{15} - u^{14} + \cdots + 7u + 1$
c_{11}	$u^{15} + 4u^{14} + \cdots + u - 1$
c_{12}	$u^{15} + 4u^{13} + \cdots - 9u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{15} + 3y^{14} + \cdots + 26y - 1$
c_2, c_5	$y^{15} - 9y^{14} + \cdots + 14y - 1$
c_3	$y^{15} - 12y^{14} + \cdots + 22y - 1$
c_4	$y^{15} + 12y^{14} + \cdots - 26y - 1$
c_6, c_{10}	$y^{15} - 13y^{14} + \cdots + 37y - 1$
c_7	$y^{15} + 8y^{14} + \cdots - 14y - 1$
c_8, c_{11}	$y^{15} - 12y^{14} + \cdots + 17y - 1$
c_9	$y^{15} + 14y^{14} + \cdots - 24y - 1$
c_{12}	$y^{15} + 8y^{14} + \cdots + 17y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.922745 + 0.460995I$ $a = 0.114369 - 0.538469I$ $b = -0.929425 - 0.375212I$	$1.64110 - 1.53234I$	$-7.81691 + 0.84164I$
$u = -0.922745 - 0.460995I$ $a = 0.114369 + 0.538469I$ $b = -0.929425 + 0.375212I$	$1.64110 + 1.53234I$	$-7.81691 - 0.84164I$
$u = 0.938945 + 0.177818I$ $a = 0.86597 + 1.32539I$ $b = -0.704339 - 0.269006I$	$-2.57188 - 0.93465I$	$-11.79565 - 6.05051I$
$u = 0.938945 - 0.177818I$ $a = 0.86597 - 1.32539I$ $b = -0.704339 + 0.269006I$	$-2.57188 + 0.93465I$	$-11.79565 + 6.05051I$
$u = -1.076890 + 0.164965I$ $a = 0.145601 - 1.209410I$ $b = -0.923532 + 0.993400I$	$1.02111 + 3.57074I$	$-2.62126 - 3.81898I$
$u = -1.076890 - 0.164965I$ $a = 0.145601 + 1.209410I$ $b = -0.923532 - 0.993400I$	$1.02111 - 3.57074I$	$-2.62126 + 3.81898I$
$u = 1.13583$ $a = -1.56273$ $b = -1.20582$	-3.97180	-19.0140
$u = -0.711260 + 0.972886I$ $a = 0.705794 - 0.758936I$ $b = 0.517765 - 0.027190I$	$-3.96515 + 4.70743I$	$-6.56405 - 7.08888I$
$u = -0.711260 - 0.972886I$ $a = 0.705794 + 0.758936I$ $b = 0.517765 + 0.027190I$	$-3.96515 - 4.70743I$	$-6.56405 + 7.08888I$
$u = -1.32192 + 1.13798I$ $a = -0.384571 + 0.713684I$ $b = 1.383610 - 0.124672I$	$-7.69386 + 5.20657I$	$-7.68973 - 8.44911I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -1.32192 - 1.13798I$ $a = -0.384571 - 0.713684I$ $b = 1.383610 + 0.124672I$	$-7.69386 - 5.20657I$	$-7.68973 + 8.44911I$
$u = 0.214145 + 0.072034I$ $a = 0.182763 - 1.288960I$ $b = 0.913178 - 0.795560I$	$4.77103 + 2.99420I$	$9.45142 + 0.57526I$
$u = 0.214145 - 0.072034I$ $a = 0.182763 + 1.288960I$ $b = 0.913178 + 0.795560I$	$4.77103 - 2.99420I$	$9.45142 - 0.57526I$
$u = 1.81182 + 0.31886I$ $a = 0.151436 + 0.671996I$ $b = 0.845655 - 0.567560I$	$-1.08605 + 2.26406I$	$3.04312 - 0.55917I$
$u = 1.81182 - 0.31886I$ $a = 0.151436 - 0.671996I$ $b = 0.845655 + 0.567560I$	$-1.08605 - 2.26406I$	$3.04312 + 0.55917I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{15}-9u^{14}+\cdots+14u-1)(u^{50}+38u^{49}+\cdots-888u+361)$
c_2	$(u^{15}+u^{14}+\cdots-2u-1)(u^{50}-19u^{48}+\cdots+86u+19)$
c_3	$(u^{15}+4u^{14}+\cdots+14u+1)(u^{50}-9u^{49}+\cdots+7672u+449)$
c_4	$(u^{15}+6u^{13}+\cdots+2u+1)(u^{50}-3u^{49}+\cdots-316u-239)$
c_5	$(u^{15}-u^{14}+\cdots-2u+1)(u^{50}-19u^{48}+\cdots+86u+19)$
c_6	$(u^{15}+u^{14}+\cdots+7u-1)(u^{50}+2u^{49}+\cdots-457u-23)$
c_7	$(u^{15}+2u^{14}+\cdots-2u-1)(u^{50}-5u^{49}+\cdots-18u+1)$
c_8	$(u^{15}-4u^{14}+\cdots+u+1)(u^{50}-3u^{49}+\cdots+7u+1)$
c_9	$(u^{15}+7u^{13}+\cdots-4u-1)(u^{50}-u^{49}+\cdots-48u-119)$
c_{10}	$(u^{15}-u^{14}+\cdots+7u+1)(u^{50}+2u^{49}+\cdots-457u-23)$
c_{11}	$(u^{15}+4u^{14}+\cdots+u-1)(u^{50}-3u^{49}+\cdots+7u+1)$
c_{12}	$(u^{15}+4u^{13}+\cdots-9u+1)(u^{50}+3u^{49}+\cdots-36385u-1997)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{15}+3y^{14}+\cdots+26y-1)(y^{50}-42y^{49}+\cdots+7137572y+130321)$
c_2, c_5	$(y^{15}-9y^{14}+\cdots+14y-1)(y^{50}-38y^{49}+\cdots+888y+361)$
c_3	$(y^{15}-12y^{14}+\cdots+22y-1)$ $\cdot(y^{50}-85y^{49}+\cdots-26826128y+201601)$
c_4	$(y^{15}+12y^{14}+\cdots-26y-1)(y^{50}+31y^{49}+\cdots+1567408y+57121)$
c_6, c_{10}	$(y^{15}-13y^{14}+\cdots+37y-1)(y^{50}-50y^{49}+\cdots-75863y+529)$
c_7	$(y^{15}+8y^{14}+\cdots-14y-1)(y^{50}+7y^{49}+\cdots-88y+1)$
c_8, c_{11}	$(y^{15}-12y^{14}+\cdots+17y-1)(y^{50}-9y^{49}+\cdots-19y+1)$
c_9	$(y^{15}+14y^{14}+\cdots-24y-1)(y^{50}+57y^{49}+\cdots+139782y+14161)$
c_{12}	$(y^{15}+8y^{14}+\cdots+17y-1)$ $\cdot(y^{50}+95y^{49}+\cdots-251387363y+3988009)$