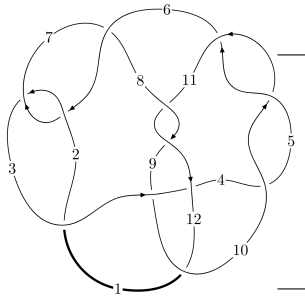
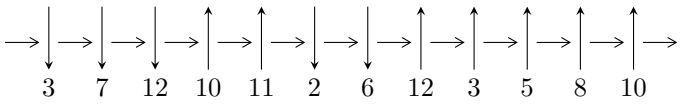
$12n_{0569}$ $(K12n_{0569})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$I_1^u = \langle 8.11108 \times 10^{37} u^{57} + 4.91027 \times 10^{37} u^{56} + \cdots + 5.66410 \times 10^{38} b - 1.34973 \times 10^{39},$
$1.29757 \times 10^{39} u^{57} + 3.25753 \times 10^{39} u^{56} + \cdots + 5.66410 \times 10^{38} a - 5.91852 \times 10^{37},\ u^{58} + 2u^{57} + \cdots - 9u - 1\rangle$
$I_2^u = \langle u^{15} + u^{14} - 3u^{13} - 4u^{12} + 7u^{11} + 10u^{10} - 10u^9 - 16u^8 + 11u^7 + 19u^6 - 8u^5 - 15u^4 + 4u^3 + 7u^2 + b - 2u -$
$- 2u^{16} - u^{15} + \cdots + a + 1,\ u^{17} + u^{16} + \cdots - 5u^2 + 1\rangle$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 75 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.

$\boldsymbol{I_1^u = \langle 8.11\times 10^{37}u^{57}+4.91\times 10^{37}u^{56}+\cdots+5.66\times 10^{38}b-1.35\times 10^{39},\ 1.30\times 10^{39}u^{57}+3.26\times 10^{39}u^{56}+\cdots+5.66\times 10^{38}a-5.92\times 10^{37},\ u^{58}+2u^{57}+\cdots-9u-1\rangle}$

(i) Arc colorings

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

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

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

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

$$a_8 = \begin{pmatrix} -u^2+1 \\ u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2.29087u^{57}-5.75119u^{56}+\cdots-44.7958u+0.104492 \\ -0.143202u^{57}-0.0866910u^{56}+\cdots+6.22932u+2.38295 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -1.52712u^{57}-4.39667u^{56}+\cdots-31.5613u+3.08463 \\ -0.103380u^{57}+0.538492u^{56}+\cdots+10.3860u+2.75551 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} -1.60930u^{57}-3.86858u^{56}+\cdots-1.74961u+7.98100 \\ 1.09318u^{57}+2.32144u^{56}+\cdots+8.84503u+3.47131 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.14552u^{57}-4.13737u^{56}+\cdots-72.7081u-15.0427 \\ -0.129885u^{57}+0.333506u^{56}+\cdots-3.41712u-2.96099 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -2.16693u^{57}-5.96581u^{56}+\cdots-57.6969u-9.85977 \\ 0.892300u^{57}+1.86393u^{56}+\cdots+9.09728u-0.642831 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.697310u^{57}-3.28572u^{56}+\cdots-62.1886u-13.9750 \\ -0.544392u^{57}-0.342782u^{56}+\cdots-13.8913u-4.07349 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -4.70530u^{57}-10.9734u^{56}+\cdots-119.055u+7.76720$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{58} + 20u^{57} + \cdots + 111u + 1$
c_2, c_6	$u^{58} - 2u^{57} + \cdots + 9u - 1$
c_3	$u^{58} - 2u^{57} + \cdots - 4u + 1$
c_4, c_5, c_{10}	$u^{58} + u^{57} + \cdots - 148u - 43$
c_8, c_{11}	$u^{58} - 4u^{57} + \cdots + 12848u - 2119$
c_9	$u^{58} - u^{57} + \cdots + 2150u + 293$
c_{12}	$u^{58} + 2u^{57} + \cdots + 44u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{58} + 44y^{57} + \cdots - 6891y + 1$
c_2, c_6	$y^{58} - 20y^{57} + \cdots - 111y + 1$
c_3	$y^{58} - 56y^{57} + \cdots + 254y + 1$
c_4, c_5, c_{10}	$y^{58} - 57y^{57} + \cdots + 10690y + 1849$
c_8, c_{11}	$y^{58} - 34y^{57} + \cdots - 42707330y + 4490161$
c_9	$y^{58} + 55y^{57} + \cdots - 1142832y + 85849$
c_{12}	$y^{58} + 50y^{57} + \cdots + 2238y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.649208+0.777185I$ $a=-1.311830-0.015356I$ $b=\ \ 1.41367-0.24080I$	$8.99829-0.85807I$	$7.14206+0.I$
$u=-0.649208-0.777185I$ $a=-1.311830+0.015356I$ $b=\ \ 1.41367+0.24080I$	$8.99829+0.85807I$	$7.14206+0.I$
$u=-0.192605+0.952386I$ $a=\ \ 1.59370+0.08023I$ $b=-1.374660-0.179161I$	$1.95932+3.47319I$	$7.38337-3.16681I$
$u=-0.192605-0.952386I$ $a=\ \ 1.59370-0.08023I$ $b=-1.374660+0.179161I$	$1.95932-3.47319I$	$7.38337+3.16681I$
$u=\ \ 0.704542+0.759694I$ $a=-2.20492-0.44914I$ $b=\ \ 1.66369+0.08603I$	$9.70913+0.22811I$	$5.29825+0.I$
$u=\ \ 0.704542-0.759694I$ $a=-2.20492+0.44914I$ $b=\ \ 1.66369-0.08603I$	$9.70913-0.22811I$	$5.29825+0.I$
$u=-0.844133+0.459005I$ $a=-0.88197+1.28310I$ $b=\ \ 0.794410+0.348082I$	$0.18156+3.43068I$	$3.97292-8.38855I$
$u=-0.844133-0.459005I$ $a=-0.88197-1.28310I$ $b=\ \ 0.794410-0.348082I$	$0.18156-3.43068I$	$3.97292+8.38855I$
$u=-0.785206+0.690856I$ $a=-1.51273+0.86981I$ $b=\ \ 0.940956+0.796608I$	$0.04805+2.72947I$	$6.00584-3.68019I$
$u=-0.785206-0.690856I$ $a=-1.51273-0.86981I$ $b=\ \ 0.940956-0.796608I$	$0.04805-2.72947I$	$6.00584+3.68019I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.675145 + 0.804414I$ $a = 0.143408 - 0.529642I$ $b = 0.449289 + 0.991573I$	$-1.36150 + 3.46891I$	$4.09542 - 2.58287I$
$u = 0.675145 - 0.804414I$ $a = 0.143408 + 0.529642I$ $b = 0.449289 - 0.991573I$	$-1.36150 - 3.46891I$	$4.09542 + 2.58287I$
$u = -1.06579$ $a = -0.471638$ $b = -1.49871$	4.21383	-2.91260
$u = -0.797269 + 0.746574I$ $a = -2.49041 + 1.51484I$ $b = 1.313240 - 0.095807I$	$0.640941 - 0.368761I$	0
$u = -0.797269 - 0.746574I$ $a = -2.49041 - 1.51484I$ $b = 1.313240 + 0.095807I$	$0.640941 + 0.368761I$	0
$u = -1.093130 + 0.112916I$ $a = -0.372147 - 0.718737I$ $b = -0.097432 - 0.849324I$	$-7.71465 + 3.17136I$	$0. - 3.24101I$
$u = -1.093130 - 0.112916I$ $a = -0.372147 + 0.718737I$ $b = -0.097432 + 0.849324I$	$-7.71465 - 3.17136I$	$0. + 3.24101I$
$u = 0.897438 + 0.025837I$ $a = 0.83649 + 1.36225I$ $b = -1.246550 + 0.521890I$	$-4.22900 - 1.73682I$	$-1.19489 + 1.04559I$
$u = 0.897438 - 0.025837I$ $a = 0.83649 - 1.36225I$ $b = -1.246550 - 0.521890I$	$-4.22900 + 1.73682I$	$-1.19489 - 1.04559I$
$u = 0.865118 + 0.692108I$ $a = -0.329927 - 0.483809I$ $b = -0.099466 - 0.733477I$	$3.97645 - 2.66265I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.865118 - 0.692108I$ $a = -0.329927 + 0.483809I$ $b = -0.099466 + 0.733477I$	$3.97645 + 2.66265I$	0
$u = \ 1.12004$ $a = -0.852945$ $b = -1.22513$	3.22886	2.00000
$u = -0.927826 + 0.684508I$ $a = \ 0.367169 - 0.609308I$ $b = -1.072260 + 0.836652I$	$-0.38663 + 2.57641I$	0
$u = -0.927826 - 0.684508I$ $a = \ 0.367169 + 0.609308I$ $b = -1.072260 - 0.836652I$	$-0.38663 - 2.57641I$	0
$u = -0.671464 + 0.950623I$ $a = \ 1.75527 - 0.30187I$ $b = -1.53135 + 0.36764I$	$5.01980 - 8.36674I$	0
$u = -0.671464 - 0.950623I$ $a = \ 1.75527 + 0.30187I$ $b = -1.53135 - 0.36764I$	$5.01980 + 8.36674I$	0
$u = \ 0.813233 + 0.191671I$ $a = \ 0.451115 + 0.585998I$ $b = \ 0.221008 + 0.395351I$	$-1.37591 - 0.60280I$	$-3.98558 + 1.14738I$
$u = \ 0.813233 - 0.191671I$ $a = \ 0.451115 - 0.585998I$ $b = \ 0.221008 - 0.395351I$	$-1.37591 + 0.60280I$	$-3.98558 - 1.14738I$
$u = -0.938275 + 0.718133I$ $a = \ 2.51455 - 0.78526I$ $b = -1.40735 - 0.18115I$	$0.20384 + 5.94515I$	0
$u = -0.938275 - 0.718133I$ $a = \ 2.51455 + 0.78526I$ $b = -1.40735 + 0.18115I$	$0.20384 - 5.94515I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.400647 + 0.687623I$ $a = 0.654871 + 0.604463I$ $b = 0.179950 - 0.417028I$	$-3.03619 - 1.14742I$	$1.89413 + 2.71155I$
$u = 0.400647 - 0.687623I$ $a = 0.654871 - 0.604463I$ $b = 0.179950 + 0.417028I$	$-3.03619 + 1.14742I$	$1.89413 - 2.71155I$
$u = 1.068030 + 0.569719I$ $a = -1.042390 + 0.124560I$ $b = 0.140212 - 0.417001I$	$-4.94353 - 3.70127I$	0
$u = 1.068030 - 0.569719I$ $a = -1.042390 - 0.124560I$ $b = 0.140212 + 0.417001I$	$-4.94353 + 3.70127I$	0
$u = -0.899742 + 0.819342I$ $a = 0.385454 - 0.035512I$ $b = 0.037648 - 0.622247I$	$4.54646 + 3.06184I$	0
$u = -0.899742 - 0.819342I$ $a = 0.385454 + 0.035512I$ $b = 0.037648 + 0.622247I$	$4.54646 - 3.06184I$	0
$u = 0.998592 + 0.706419I$ $a = 1.64774 + 1.70115I$ $b = -1.63453 + 0.16359I$	$8.81746 - 5.81212I$	0
$u = 0.998592 - 0.706419I$ $a = 1.64774 - 1.70115I$ $b = -1.63453 - 0.16359I$	$8.81746 + 5.81212I$	0
$u = -1.029770 + 0.700716I$ $a = 1.01570 - 1.60259I$ $b = -1.311010 - 0.312734I$	$7.85730 + 6.47303I$	0
$u = -1.029770 - 0.700716I$ $a = 1.01570 + 1.60259I$ $b = -1.311010 + 0.312734I$	$7.85730 - 6.47303I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.018850 + 0.717395I$ $a = 1.035050 + 0.243093I$ $b = -0.380419 + 1.097530I$	$-2.39802 - 9.20313I$	0
$u = 1.018850 - 0.717395I$ $a = 1.035050 - 0.243093I$ $b = -0.380419 - 1.097530I$	$-2.39802 + 9.20313I$	0
$u = 0.853820 + 0.915715I$ $a = 1.68680 + 0.32381I$ $b = -1.367730 - 0.197646I$	$9.17939 - 0.17615I$	0
$u = 0.853820 - 0.915715I$ $a = 1.68680 - 0.32381I$ $b = -1.367730 + 0.197646I$	$9.17939 + 0.17615I$	0
$u = 1.245010 + 0.220439I$ $a = -0.109370 - 0.713094I$ $b = 1.355710 - 0.323925I$	$-3.11278 - 7.32391I$	0
$u = 1.245010 - 0.220439I$ $a = -0.109370 + 0.713094I$ $b = 1.355710 + 0.323925I$	$-3.11278 + 7.32391I$	0
$u = 0.979010 + 0.852448I$ $a = -1.77380 - 1.22586I$ $b = 1.340370 - 0.264461I$	$8.77545 - 6.33818I$	0
$u = 0.979010 - 0.852448I$ $a = -1.77380 + 1.22586I$ $b = 1.340370 + 0.264461I$	$8.77545 + 6.33818I$	0
$u = -1.212290 + 0.502784I$ $a = -0.308235 + 0.936072I$ $b = 1.265380 - 0.139334I$	$-1.33691 + 1.73049I$	0
$u = -1.212290 - 0.502784I$ $a = -0.308235 - 0.936072I$ $b = 1.265380 + 0.139334I$	$-1.33691 - 1.73049I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.606543+0.302471I$ $a=\ \ 1.286880-0.357784I$ $b=-0.620734-0.064910I$	$0.958498+0.031162I$	$9.31326-1.44144I$
$u=-0.606543-0.302471I$ $a=\ \ 1.286880+0.357784I$ $b=-0.620734+0.064910I$	$0.958498-0.031162I$	$9.31326+1.44144I$
$u=-1.079880+0.772455I$ $a=-1.65559+1.44153I$ $b=\ \ 1.53699+0.42805I$	$3.7392+14.6910I$	0
$u=-1.079880-0.772455I$ $a=-1.65559-1.44153I$ $b=\ \ 1.53699-0.42805I$	$3.7392-14.6910I$	0
$u=\ \ 0.453560+0.034976I$ $a=\ \ 3.14159+1.95342I$ $b=\ \ 0.810649-0.339207I$	$-2.55565-1.59256I$	$-2.14433+3.75237I$
$u=\ \ 0.453560-0.034976I$ $a=\ \ 3.14159-1.95342I$ $b=\ \ 0.810649+0.339207I$	$-2.55565+1.59256I$	$-2.14433-3.75237I$
$u=-0.435557$ $a=\ \ 1.52560$ $b=-0.476437$	0.883998	12.6720
$u=-0.109994$ $a=\ \ 3.75403$ $b=\ \ 1.56091$	7.69349	17.3580

II.

$\boldsymbol{I_2^u = \langle u^{15}+u^{14}+\cdots+b-2,\ -2u^{16}-u^{15}+\cdots+a+1,\ u^{17}+u^{16}+\cdots-5u^2+1\rangle}$

(i) Arc colorings

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

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

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

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

$$a_8 = \begin{pmatrix} -u^2+1 \\ u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 2u^{16}+u^{15}+\cdots-2u-1 \\ -u^{15}-u^{14}+\cdots+2u+2 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u^{16}-3u^{14}+\cdots+u-1 \\ -u^{15}-u^{14}+\cdots+3u+2 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} -u^{16}+4u^{14}+\cdots-3u-1 \\ -u^{16}-u^{15}+\cdots+4u+1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{16}-u^{15}+\cdots+u-1 \\ u^{16}+u^{15}+\cdots-2u-2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -u^{16}+3u^{14}+\cdots-3u+2 \\ u^{15}+u^{14}+\cdots-2u-2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u^{16}-u^{15}+\cdots+5u^2+u \\ u^{16}+u^{15}+\cdots-2u-3 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -2u^{16}+4u^{15}+8u^{14}-9u^{13}-25u^{12}+22u^{11}+46u^{10}-26u^9-69u^8+31u^7+73u^6-19u^5-62u^4+15u^3+32u^2-5u-10$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 7u^{16} + \cdots + 10u - 1$
c_2	$u^{17} - u^{16} + \cdots + 5u^2 - 1$
c_3	$u^{17} + 3u^{16} + \cdots + 5u - 1$
c_4, c_5	$u^{17} - 10u^{15} + \cdots - 5u - 1$
c_6	$u^{17} + u^{16} + \cdots - 5u^2 + 1$
c_7	$u^{17} + 7u^{16} + \cdots + 10u + 1$
c_8	$u^{17} - 3u^{16} + \cdots + u + 1$
c_9	$u^{17} + 4u^{15} + \cdots - 5u - 1$
c_{10}	$u^{17} - 10u^{15} + \cdots - 5u + 1$
c_{11}	$u^{17} + 3u^{16} + \cdots + u - 1$
c_{12}	$u^{17} - u^{16} + \cdots - 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{17} + 13y^{16} + \cdots + 6y - 1$
c_2, c_6	$y^{17} - 7y^{16} + \cdots + 10y - 1$
c_3	$y^{17} - 11y^{16} + \cdots + 85y - 1$
c_4, c_5, c_{10}	$y^{17} - 20y^{16} + \cdots + 21y - 1$
c_8, c_{11}	$y^{17} - 9y^{16} + \cdots - 7y - 1$
c_9	$y^{17} + 8y^{16} + \cdots + 7y - 1$
c_{12}	$y^{17} + 7y^{16} + \cdots + 9y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 1.06231$ $a = -0.790966$ $b = -1.44148$	4.98345	8.53260
$u = -1.041520 + 0.456686I$ $a = -0.162038 + 0.210070I$ $b = \quad 0.925549 + 0.313937I$	$-3.48692 + 4.50075I$	$2.82410 - 4.82928I$
$u = -1.041520 - 0.456686I$ $a = -0.162038 - 0.210070I$ $b = \quad 0.925549 - 0.313937I$	$-3.48692 - 4.50075I$	$2.82410 + 4.82928I$
$u = -0.781537 + 0.841435I$ $a = -1.83272 + 0.28651I$ $b = \quad 1.54958 - 0.17210I$	$11.09800 + 0.42854I$	$10.90013 - 2.04793I$
$u = -0.781537 - 0.841435I$ $a = -1.83272 - 0.28651I$ $b = \quad 1.54958 + 0.17210I$	$11.09800 - 0.42854I$	$10.90013 + 2.04793I$
$u = \quad 0.625681 + 0.562777I$ $a = \quad 2.71785 + 1.10655I$ $b = -1.041450 + 0.419962I$	$-1.55933 - 2.45596I$	$2.34776 + 4.55656I$
$u = \quad 0.625681 - 0.562777I$ $a = \quad 2.71785 - 1.10655I$ $b = -1.041450 - 0.419962I$	$-1.55933 + 2.45596I$	$2.34776 - 4.55656I$
$u = \quad 1.054550 + 0.525536I$ $a = -0.812965 - 1.099150I$ $b = \quad 1.056020 + 0.333361I$	$-3.00027 - 1.96632I$	$0.48389 + 2.00939I$
$u = \quad 1.054550 - 0.525536I$ $a = -0.812965 + 1.099150I$ $b = \quad 1.056020 - 0.333361I$	$-3.00027 + 1.96632I$	$0.48389 - 2.00939I$
$u = -0.817244$ $a = \quad 1.31700$ $b = -0.218613$	0.403753	-6.40080

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.894942 + 0.792445I$ $a = -0.222477 - 0.373187I$ $b = -0.060430 - 0.491411I$	$5.24194 - 2.98033I$	$10.80588 + 2.40227I$
$u = \ 0.894942 - 0.792445I$ $a = -0.222477 + 0.373187I$ $b = -0.060430 + 0.491411I$	$5.24194 + 2.98033I$	$10.80588 - 2.40227I$
$u = -0.628631 + 0.430544I$ $a = -1.289760 - 0.576771I$ $b = -0.903071 + 0.410573I$	$-2.04052 - 0.75125I$	$3.45772 - 1.80188I$
$u = -0.628631 - 0.430544I$ $a = -1.289760 + 0.576771I$ $b = -0.903071 - 0.410573I$	$-2.04052 + 0.75125I$	$3.45772 + 1.80188I$
$u = -1.002690 + 0.779560I$ $a = \ 1.57786 - 1.54150I$ $b = -1.49772 - 0.20521I$	$10.41440 + 5.64550I$	$10.01176 - 3.44000I$
$u = -1.002690 - 0.779560I$ $a = \ 1.57786 + 1.54150I$ $b = -1.49772 + 0.20521I$	$10.41440 - 5.64550I$	$10.01176 + 3.44000I$
$u = \ 0.513320$ $a = -1.47754$ $b = \ 1.60313$	7.33620	-5.79430

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17}-7u^{16}+\cdots+10u-1)(u^{58}+20u^{57}+\cdots+111u+1)$
c_2	$(u^{17}-u^{16}+\cdots+5u^2-1)(u^{58}-2u^{57}+\cdots+9u-1)$
c_3	$(u^{17}+3u^{16}+\cdots+5u-1)(u^{58}-2u^{57}+\cdots-4u+1)$
c_4, c_5	$(u^{17}-10u^{15}+\cdots-5u-1)(u^{58}+u^{57}+\cdots-148u-43)$
c_6	$(u^{17}+u^{16}+\cdots-5u^2+1)(u^{58}-2u^{57}+\cdots+9u-1)$
c_7	$(u^{17}+7u^{16}+\cdots+10u+1)(u^{58}+20u^{57}+\cdots+111u+1)$
c_8	$(u^{17}-3u^{16}+\cdots+u+1)(u^{58}-4u^{57}+\cdots+12848u-2119)$
c_9	$(u^{17}+4u^{15}+\cdots-5u-1)(u^{58}-u^{57}+\cdots+2150u+293)$
c_{10}	$(u^{17}-10u^{15}+\cdots-5u+1)(u^{58}+u^{57}+\cdots-148u-43)$
c_{11}	$(u^{17}+3u^{16}+\cdots+u-1)(u^{58}-4u^{57}+\cdots+12848u-2119)$
c_{12}	$(u^{17}-u^{16}+\cdots-3u-1)(u^{58}+2u^{57}+\cdots+44u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_7	$(y^{17}+13y^{16}+\cdots+6y-1)(y^{58}+44y^{57}+\cdots-6891y+1)$
c_2, c_6	$(y^{17}-7y^{16}+\cdots+10y-1)(y^{58}-20y^{57}+\cdots-111y+1)$
c_3	$(y^{17}-11y^{16}+\cdots+85y-1)(y^{58}-56y^{57}+\cdots+254y+1)$
c_4, c_5, c_{10}	$(y^{17}-20y^{16}+\cdots+21y-1)(y^{58}-57y^{57}+\cdots+10690y+1849)$
c_8, c_{11}	$(y^{17}-9y^{16}+\cdots-7y-1)$ $\cdot(y^{58}-34y^{57}+\cdots-42707330y+4490161)$
c_9	$(y^{17}+8y^{16}+\cdots+7y-1)(y^{58}+55y^{57}+\cdots-1142832y+85849)$
c_{12}	$(y^{17}+7y^{16}+\cdots+9y-1)(y^{58}+50y^{57}+\cdots+2238y+1)$