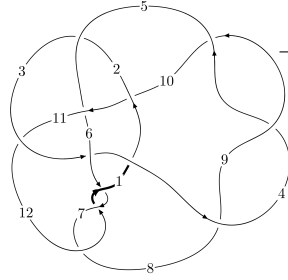
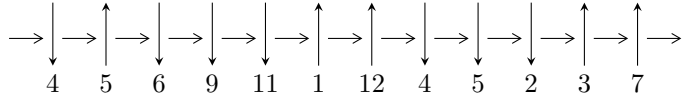


12n₀₇₁₀ (K12n₀₇₁₀)



A knot diagram¹

Linearized knot diagram



Solving Sequence

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

Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -9.84739 \times 10^{197} u^{63} + 8.49535 \times 10^{197} u^{62} + \dots + 5.51022 \times 10^{197} b + 6.64943 \times 10^{198}, \\ -4.80929 \times 10^{198} u^{63} + 4.53927 \times 10^{198} u^{62} + \dots + 5.51022 \times 10^{197} a + 5.22063 \times 10^{199}, \\ u^{64} - u^{63} + \dots - 20u + 1 \rangle$$

$$I_2^u = \langle u^{16} - 6u^{14} + u^{13} + 9u^{12} - 3u^{11} + 5u^{10} - 2u^9 - 13u^8 + 2u^7 - 3u^6 + 8u^5 + 5u^4 - u^3 + u^2 + b - 4u, \\ 1799u^{16} + 519u^{15} + \dots + 4357a - 2411, \\ u^{17} - 6u^{15} + u^{14} + 9u^{13} - 3u^{12} + 5u^{11} - 2u^{10} - 13u^9 + 2u^8 - 3u^7 + 8u^6 + 5u^5 - u^4 + u^3 - 4u^2 - 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 81 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.

$$\mathbf{I. } I_1^u = \langle -9.85 \times 10^{197} u^{63} + 8.50 \times 10^{197} u^{62} + \dots + 5.51 \times 10^{197} b + 6.65 \times 10^{198}, -4.81 \times 10^{198} u^{63} + 4.54 \times 10^{198} u^{62} + \dots + 5.51 \times 10^{197} a + 5.22 \times 10^{199}, u^{64} - u^{63} + \dots - 20u + 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_5 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_9 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_3 &= \begin{pmatrix} 8.72794u^{63} - 8.23791u^{62} + \dots + 1015.66u - 94.7444 \\ 1.78711u^{63} - 1.54174u^{62} + \dots + 163.516u - 12.0675 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_2 &= \begin{pmatrix} 8.72794u^{63} - 8.23791u^{62} + \dots + 1015.66u - 94.7444 \\ 1.73499u^{63} - 1.51601u^{62} + \dots + 164.589u - 12.5575 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -8.50482u^{63} + 7.19420u^{62} + \dots - 754.292u + 50.3055 \\ 0.558427u^{63} - 0.524436u^{62} + \dots + 57.1044u - 5.14866 \end{pmatrix} \\ a_6 &= \begin{pmatrix} -16.2392u^{63} + 14.0239u^{62} + \dots - 1517.78u + 114.846 \\ -0.503613u^{63} + 0.312886u^{62} + \dots - 20.3489u + 0.492578 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} 15.8056u^{63} - 14.3567u^{62} + \dots + 1688.95u - 154.718 \\ 2.21528u^{63} - 1.93022u^{62} + \dots + 209.938u - 16.2392 \end{pmatrix} \\ a_4 &= \begin{pmatrix} u \\ u \end{pmatrix} \\ a_1 &= \begin{pmatrix} 8.80462u^{63} - 8.28444u^{62} + \dots + 1017.23u - 94.4734 \\ 1.81167u^{63} - 1.56254u^{62} + \dots + 166.161u - 12.2864 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -40.2656u^{63} + 34.5054u^{62} + \dots - 3678.46u + 270.546 \\ 0.0988770u^{63} - 0.205876u^{62} + \dots + 42.0367u - 5.78692 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = $7.79379u^{63} - 6.77904u^{62} + \dots + 738.959u - 67.9797$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{64} - 8u^{63} + \dots - 495872u - 62464$
c_2	$u^{64} + 3u^{63} + \dots - 15u + 1$
c_3	$u^{64} + 2u^{63} + \dots - 471u + 103$
c_4, c_8, c_9	$u^{64} - u^{63} + \dots - 20u + 1$
c_5	$u^{64} + u^{63} + \dots - 10u + 4$
c_6, c_7, c_{12}	$u^{64} + 28u^{62} + \dots - 8u + 1$
c_{10}	$u^{64} + 3u^{63} + \dots - 4u - 1$
c_{11}	$u^{64} - u^{63} + \dots + 3928u + 509$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{64} + 2y^{63} + \dots - 16309354496y + 3901751296$
c_2	$y^{64} - 55y^{63} + \dots - 125y + 1$
c_3	$y^{64} - 24y^{63} + \dots - 336995y + 10609$
c_4, c_8, c_9	$y^{64} - 13y^{63} + \dots - 124y + 1$
c_5	$y^{64} - 19y^{63} + \dots - 476y + 16$
c_6, c_7, c_{12}	$y^{64} + 56y^{63} + \dots - 176y + 1$
c_{10}	$y^{64} + 59y^{63} + \dots + 40y + 1$
c_{11}	$y^{64} - 27y^{63} + \dots - 32929622y + 259081$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.946772 + 0.172113I$ $a = 1.20904 + 0.81815I$ $b = -0.039257 + 0.252693I$	$-7.03984 + 1.15992I$	$-8.45062 + 2.47620I$
$u = 0.946772 - 0.172113I$ $a = 1.20904 - 0.81815I$ $b = -0.039257 - 0.252693I$	$-7.03984 - 1.15992I$	$-8.45062 - 2.47620I$
$u = 0.620513 + 0.852057I$ $a = 0.451461 + 1.075960I$ $b = 0.012545 + 1.195140I$	$-5.26362 - 5.22706I$	0
$u = 0.620513 - 0.852057I$ $a = 0.451461 - 1.075960I$ $b = 0.012545 - 1.195140I$	$-5.26362 + 5.22706I$	0
$u = -0.895472 + 0.225273I$ $a = -0.719926 - 1.169420I$ $b = 0.45211 - 1.49025I$	$-7.09102 + 5.57768I$	$-9.78780 - 6.31285I$
$u = -0.895472 - 0.225273I$ $a = -0.719926 + 1.169420I$ $b = 0.45211 + 1.49025I$	$-7.09102 - 5.57768I$	$-9.78780 + 6.31285I$
$u = -1.10338$ $a = -1.27511$ $b = 1.02926$	-3.14419	6.64080
$u = -0.668464 + 0.594810I$ $a = -1.27542 + 1.56101I$ $b = 0.1150660 - 0.0493382I$	$-5.56259 + 7.46134I$	$-9.5893 - 10.8481I$
$u = -0.668464 - 0.594810I$ $a = -1.27542 - 1.56101I$ $b = 0.1150660 + 0.0493382I$	$-5.56259 - 7.46134I$	$-9.5893 + 10.8481I$
$u = -0.289994 + 0.835239I$ $a = -0.248954 + 0.912698I$ $b = -0.065209 + 1.277520I$	$0.67458 + 2.02494I$	$-4.55391 - 3.00809I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.289994 - 0.835239I$ $a = -0.248954 - 0.912698I$ $b = -0.065209 - 1.277520I$	$0.67458 - 2.02494I$	$-4.55391 + 3.00809I$
$u = 0.383113 + 0.779996I$ $a = 0.0624519 + 0.1220700I$ $b = -1.63610 + 0.76360I$	$-3.99030 - 6.24717I$	$-0.94568 + 7.75698I$
$u = 0.383113 - 0.779996I$ $a = 0.0624519 - 0.1220700I$ $b = -1.63610 - 0.76360I$	$-3.99030 + 6.24717I$	$-0.94568 - 7.75698I$
$u = -0.796858 + 0.814253I$ $a = -0.686138 - 0.874115I$ $b = -0.27617 - 1.49274I$	$2.89512 - 1.57067I$	0
$u = -0.796858 - 0.814253I$ $a = -0.686138 + 0.874115I$ $b = -0.27617 + 1.49274I$	$2.89512 + 1.57067I$	0
$u = 0.035583 + 0.837292I$ $a = -0.62456 + 1.59253I$ $b = -0.228134 + 1.170490I$	$2.11232 + 2.53049I$	$6.05426 - 0.21193I$
$u = 0.035583 - 0.837292I$ $a = -0.62456 - 1.59253I$ $b = -0.228134 - 1.170490I$	$2.11232 - 2.53049I$	$6.05426 + 0.21193I$
$u = 0.844863 + 0.928870I$ $a = 0.387692 - 1.093730I$ $b = -0.69297 - 1.71564I$	$2.47545 - 5.95909I$	0
$u = 0.844863 - 0.928870I$ $a = 0.387692 + 1.093730I$ $b = -0.69297 + 1.71564I$	$2.47545 + 5.95909I$	0
$u = 0.587299 + 0.456573I$ $a = 0.93747 + 1.58864I$ $b = -0.0271748 - 0.1050530I$	$-0.16641 - 4.17847I$	$-4.82690 + 9.90942I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.587299 - 0.456573I$ $a = 0.93747 - 1.58864I$ $b = -0.0271748 + 0.1050530I$	$-0.16641 + 4.17847I$	$-4.82690 - 9.90942I$
$u = 1.238920 + 0.253379I$ $a = 1.111320 - 0.076257I$ $b = -1.088670 + 0.250079I$	$-7.29418 + 2.08677I$	0
$u = 1.238920 - 0.253379I$ $a = 1.111320 + 0.076257I$ $b = -1.088670 - 0.250079I$	$-7.29418 - 2.08677I$	0
$u = -0.477853 + 0.522545I$ $a = 0.090224 + 0.464450I$ $b = -0.722519 - 0.003401I$	$-0.96798 + 1.68910I$	$-2.76791 - 3.93661I$
$u = -0.477853 - 0.522545I$ $a = 0.090224 - 0.464450I$ $b = -0.722519 + 0.003401I$	$-0.96798 - 1.68910I$	$-2.76791 + 3.93661I$
$u = -0.371645 + 0.583198I$ $a = -1.06104 - 1.22517I$ $b = 1.233790 - 0.127903I$	$-6.15703 + 3.05371I$	$-8.05868 - 2.43379I$
$u = -0.371645 - 0.583198I$ $a = -1.06104 + 1.22517I$ $b = 1.233790 + 0.127903I$	$-6.15703 - 3.05371I$	$-8.05868 + 2.43379I$
$u = -1.33914$ $a = -0.504517$ $b = -0.354254$	-3.83494	0
$u = -0.618625 + 0.231004I$ $a = -0.735330 + 0.900611I$ $b = -0.189147 + 0.040922I$	$-1.152910 + 0.804162I$	$-6.86180 - 2.21679I$
$u = -0.618625 - 0.231004I$ $a = -0.735330 - 0.900611I$ $b = -0.189147 - 0.040922I$	$-1.152910 - 0.804162I$	$-6.86180 + 2.21679I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.011990 + 0.646543I$ $a = 0.003999 + 0.200867I$ $b = 1.132340 + 0.833342I$	$1.23403 + 1.93321I$	$3.90920 - 0.55897I$
$u = -0.011990 - 0.646543I$ $a = 0.003999 - 0.200867I$ $b = 1.132340 - 0.833342I$	$1.23403 - 1.93321I$	$3.90920 + 0.55897I$
$u = -1.105410 + 0.786487I$ $a = 0.785257 + 0.977478I$ $b = -0.83922 + 1.31352I$	$1.89472 + 7.69635I$	0
$u = -1.105410 - 0.786487I$ $a = 0.785257 - 0.977478I$ $b = -0.83922 - 1.31352I$	$1.89472 - 7.69635I$	0
$u = 0.013218 + 1.373850I$ $a = 0.320460 + 1.126500I$ $b = 0.299346 + 1.263480I$	$-1.88910 - 1.60265I$	0
$u = 0.013218 - 1.373850I$ $a = 0.320460 - 1.126500I$ $b = 0.299346 - 1.263480I$	$-1.88910 + 1.60265I$	0
$u = 0.950982 + 1.013230I$ $a = -0.572316 + 1.036810I$ $b = 0.71235 + 1.43164I$	$6.24319 - 3.73740I$	0
$u = 0.950982 - 1.013230I$ $a = -0.572316 - 1.036810I$ $b = 0.71235 - 1.43164I$	$6.24319 + 3.73740I$	0
$u = 1.041240 + 0.945389I$ $a = 0.619213 - 0.729729I$ $b = 0.03119 - 1.57922I$	$5.92743 - 3.46657I$	0
$u = 1.041240 - 0.945389I$ $a = 0.619213 + 0.729729I$ $b = 0.03119 + 1.57922I$	$5.92743 + 3.46657I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.75365 + 1.26029I$		
$a = 0.351516 + 1.019420I$	$2.81189 - 0.22181I$	0
$b = -0.55158 + 1.56256I$		
$u = -0.75365 - 1.26029I$		
$a = 0.351516 - 1.019420I$	$2.81189 + 0.22181I$	0
$b = -0.55158 - 1.56256I$		
$u = 1.20080 + 0.84927I$		
$a = -0.699882 + 0.402344I$	$1.37657 - 0.71219I$	0
$b = 0.26781 + 1.48082I$		
$u = 1.20080 - 0.84927I$		
$a = -0.699882 - 0.402344I$	$1.37657 + 0.71219I$	0
$b = 0.26781 - 1.48082I$		
$u = 1.45212 + 0.27560I$		
$a = 0.417695 - 0.170926I$	$-7.88971 - 3.99663I$	0
$b = 0.290992 - 0.440231I$		
$u = 1.45212 - 0.27560I$		
$a = 0.417695 + 0.170926I$	$-7.88971 + 3.99663I$	0
$b = 0.290992 + 0.440231I$		
$u = -1.07999 + 1.05627I$		
$a = -0.415727 - 0.977749I$	$4.81609 + 11.04570I$	0
$b = 0.80217 - 1.68585I$		
$u = -1.07999 - 1.05627I$		
$a = -0.415727 + 0.977749I$	$4.81609 - 11.04570I$	0
$b = 0.80217 + 1.68585I$		
$u = -1.03083 + 1.17483I$		
$a = 0.607257 + 0.572212I$	$5.07836 - 3.02061I$	0
$b = -0.06569 + 1.54841I$		
$u = -1.03083 - 1.17483I$		
$a = 0.607257 - 0.572212I$	$5.07836 + 3.02061I$	0
$b = -0.06569 - 1.54841I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.25740 + 0.94452I$ $a = -0.615428 - 0.631213I$ $b = 0.15943 - 1.58725I$	$1.15663 + 8.11283I$	0
$u = -1.25740 - 0.94452I$ $a = -0.615428 + 0.631213I$ $b = 0.15943 + 1.58725I$	$1.15663 - 8.11283I$	0
$u = 1.57458$ $a = 0.222480$ $b = -0.761165$	-6.86713	0
$u = 1.26337 + 1.06035I$ $a = 0.460050 - 0.923357I$ $b = -0.86619 - 1.63300I$	$-0.4290 - 15.5943I$	0
$u = 1.26337 - 1.06035I$ $a = 0.460050 + 0.923357I$ $b = -0.86619 + 1.63300I$	$-0.4290 + 15.5943I$	0
$u = 0.243230 + 0.178886I$ $a = 1.27379 - 2.06709I$ $b = -0.18795 - 1.78955I$	$0.88489 - 2.86889I$	$-14.0400 + 9.1549I$
$u = 0.243230 - 0.178886I$ $a = 1.27379 + 2.06709I$ $b = -0.18795 + 1.78955I$	$0.88489 + 2.86889I$	$-14.0400 - 9.1549I$
$u = -1.70737 + 0.16902I$ $a = -0.205034 + 0.074320I$ $b = 0.802985 + 0.565756I$	$-11.04570 + 0.92948I$	0
$u = -1.70737 - 0.16902I$ $a = -0.205034 - 0.074320I$ $b = 0.802985 - 0.565756I$	$-11.04570 - 0.92948I$	0
$u = 0.91884 + 1.46723I$ $a = -0.481154 + 0.649766I$ $b = -0.09110 + 1.61339I$	$0.88806 + 6.77478I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.91884 - 1.46723I$ $a = -0.481154 - 0.649766I$ $b = -0.09110 - 1.61339I$	$0.88806 - 6.77478I$	0
$u = 0.252679$ $a = 4.27072$ $b = -1.09929$	-2.21307	-3.38650
$u = 0.1323300 + 0.0240192I$ $a = -8.60478 + 7.49523I$ $b = 0.347677 + 0.732130I$	$-1.86639 - 2.54965I$	$-8.65506 + 4.62722I$
$u = 0.1323300 - 0.0240192I$ $a = -8.60478 - 7.49523I$ $b = 0.347677 - 0.732130I$	$-1.86639 + 2.54965I$	$-8.65506 - 4.62722I$

$$\text{II. } I_2^u = \langle u^{16} - 6u^{14} + \dots + b - 4u, 1799u^{16} + 519u^{15} + \dots + 4357a - 2411, u^{17} - 6u^{15} + \dots - 4u^2 - 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_5 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_9 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_3 &= \begin{pmatrix} -0.412899u^{16} - 0.119119u^{15} + \dots + 2.76589u + 0.553362 \\ -u^{16} + 6u^{14} + \dots - u^2 + 4u \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_2 &= \begin{pmatrix} -0.412899u^{16} - 0.119119u^{15} + \dots + 2.76589u + 0.553362 \\ -0.833142u^{16} - 0.295387u^{15} + \dots + 3.58710u - 0.119119 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -0.553362u^{16} + 0.412899u^{15} + \dots + 2.19876u - 1.76589 \\ 0.119119u^{16} + 0.833142u^{15} + \dots + 0.446638u - 3.58710 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 0.765894u^{16} + 0.553362u^{15} + \dots - 1.61189u - 2.19876 \\ 1.35300u^{16} + 0.434244u^{15} + \dots - 3.84599u - 1.64540 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -0.377094u^{16} + 0.784485u^{15} + \dots + 2.87124u - 0.345651 \\ -0.553362u^{16} + 0.412899u^{15} + \dots + 2.19876u - 0.765894 \end{pmatrix} \\ a_4 &= \begin{pmatrix} u \\ u \end{pmatrix} \\ a_1 &= \begin{pmatrix} -0.784485u^{16} - 0.0417719u^{15} + \dots + 2.34565u + 0.377094 \\ -1.20473u^{16} - 0.218040u^{15} + \dots + 3.16686u - 0.295387 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -0.476934u^{16} - 0.0236401u^{15} + \dots - 0.595593u - 0.165710 \\ 0.719302u^{16} - 0.0904292u^{15} + \dots - 2.22975u - 0.381455 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

$$\text{(iii) Cusp Shapes} = \frac{4895}{4357}u^{16} - \frac{17871}{4357}u^{15} + \dots - \frac{1601}{4357}u + \frac{40507}{4357}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 3u^{16} + \dots + 16u + 8$
c_2	$u^{17} + 2u^{16} + \dots + 5u + 1$
c_3	$u^{17} - 3u^{16} + \dots + 3u - 1$
c_4	$u^{17} - 6u^{15} + \dots + 4u^2 + 1$
c_5	$u^{17} - 7u^{15} + \dots + 6u^2 - 1$
c_6, c_7	$u^{17} + u^{16} + \dots + 2u + 1$
c_8, c_9	$u^{17} - 6u^{15} + \dots - 4u^2 - 1$
c_{10}	$u^{17} + 4u^{15} + \dots - 6u^2 + 1$
c_{11}	$u^{17} - 4u^{16} + \dots - 10u + 1$
c_{12}	$u^{17} - u^{16} + \dots + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} - 13y^{16} + \dots + 1056y - 64$
c_2	$y^{17} - 14y^{16} + \dots + 13y - 1$
c_3	$y^{17} - 15y^{16} + \dots + 7y - 1$
c_4, c_8, c_9	$y^{17} - 12y^{16} + \dots - 8y - 1$
c_5	$y^{17} - 14y^{16} + \dots + 12y - 1$
c_6, c_7, c_{12}	$y^{17} + 17y^{16} + \dots + 8y - 1$
c_{10}	$y^{17} + 8y^{16} + \dots + 12y - 1$
c_{11}	$y^{17} - 6y^{16} + \dots + 54y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.149188 + 0.977232I$ $a = -0.79763 + 1.52107I$ $b = -0.152663 + 0.999992I$	$-0.89531 + 2.12840I$	$-0.45628 - 2.87598I$
$u = 0.149188 - 0.977232I$ $a = -0.79763 - 1.52107I$ $b = -0.152663 - 0.999992I$	$-0.89531 - 2.12840I$	$-0.45628 + 2.87598I$
$u = 1.020910 + 0.194503I$ $a = 1.65137 + 0.24597I$ $b = -0.945206 + 0.180079I$	$-8.03635 + 1.72262I$	$-15.7327 - 0.2949I$
$u = 1.020910 - 0.194503I$ $a = 1.65137 - 0.24597I$ $b = -0.945206 - 0.180079I$	$-8.03635 - 1.72262I$	$-15.7327 + 0.2949I$
$u = -0.954068$ $a = -1.55900$ $b = 1.04814$	-3.49060	-17.7910
$u = -1.17160$ $a = 0.342429$ $b = 0.853536$	-4.40670	-11.4820
$u = -0.364678 + 0.678159I$ $a = -0.95485 + 1.05414I$ $b = 0.615085 + 1.143820I$	$-4.99963 + 6.37553I$	$-7.40202 - 7.64030I$
$u = -0.364678 - 0.678159I$ $a = -0.95485 - 1.05414I$ $b = 0.615085 - 1.143820I$	$-4.99963 - 6.37553I$	$-7.40202 + 7.64030I$
$u = 1.220370 + 0.298347I$ $a = -0.234736 + 0.427057I$ $b = -0.773210 + 0.189028I$	$-8.67583 - 4.10381I$	$-13.17542 + 4.42000I$
$u = 1.220370 - 0.298347I$ $a = -0.234736 - 0.427057I$ $b = -0.773210 - 0.189028I$	$-8.67583 + 4.10381I$	$-13.17542 - 4.42000I$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.101251 + 0.723699I$ $a = 0.74002 + 1.48739I$ $b = 0.189611 + 1.355260I$	$1.54744 - 2.88304I$	$-4.82319 + 5.28958I$
$u = -0.101251 - 0.723699I$ $a = 0.74002 - 1.48739I$ $b = 0.189611 - 1.355260I$	$1.54744 + 2.88304I$	$-4.82319 - 5.28958I$
$u = 0.048493 + 0.560424I$ $a = 0.462572 + 1.307690I$ $b = -0.15325 + 1.77110I$	$1.27811 - 2.77051I$	$6.14370 + 6.81768I$
$u = 0.048493 - 0.560424I$ $a = 0.462572 - 1.307690I$ $b = -0.15325 - 1.77110I$	$1.27811 + 2.77051I$	$6.14370 - 6.81768I$
$u = 1.70710$ $a = 0.372194$ $b = -0.585789$	-6.49789	3.79890
$u = -1.76376 + 0.17105I$ $a = -0.444554 + 0.205648I$ $b = 0.561689 + 0.054472I$	$-10.85430 - 2.09747I$	$-9.31725 + 4.36886I$
$u = -1.76376 - 0.17105I$ $a = -0.444554 - 0.205648I$ $b = 0.561689 - 0.054472I$	$-10.85430 + 2.09747I$	$-9.31725 - 4.36886I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17} - 3u^{16} + \dots + 16u + 8)(u^{64} - 8u^{63} + \dots - 495872u - 62464)$
c_2	$(u^{17} + 2u^{16} + \dots + 5u + 1)(u^{64} + 3u^{63} + \dots - 15u + 1)$
c_3	$(u^{17} - 3u^{16} + \dots + 3u - 1)(u^{64} + 2u^{63} + \dots - 471u + 103)$
c_4	$(u^{17} - 6u^{15} + \dots + 4u^2 + 1)(u^{64} - u^{63} + \dots - 20u + 1)$
c_5	$(u^{17} - 7u^{15} + \dots + 6u^2 - 1)(u^{64} + u^{63} + \dots - 10u + 4)$
c_6, c_7	$(u^{17} + u^{16} + \dots + 2u + 1)(u^{64} + 28u^{62} + \dots - 8u + 1)$
c_8, c_9	$(u^{17} - 6u^{15} + \dots - 4u^2 - 1)(u^{64} - u^{63} + \dots - 20u + 1)$
c_{10}	$(u^{17} + 4u^{15} + \dots - 6u^2 + 1)(u^{64} + 3u^{63} + \dots - 4u - 1)$
c_{11}	$(u^{17} - 4u^{16} + \dots - 10u + 1)(u^{64} - u^{63} + \dots + 3928u + 509)$
c_{12}	$(u^{17} - u^{16} + \dots + 2u - 1)(u^{64} + 28u^{62} + \dots - 8u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17} - 13y^{16} + \dots + 1056y - 64)$ $\cdot (y^{64} + 2y^{63} + \dots - 16309354496y + 3901751296)$
c_2	$(y^{17} - 14y^{16} + \dots + 13y - 1)(y^{64} - 55y^{63} + \dots - 125y + 1)$
c_3	$(y^{17} - 15y^{16} + \dots + 7y - 1)(y^{64} - 24y^{63} + \dots - 336995y + 10609)$
c_4, c_8, c_9	$(y^{17} - 12y^{16} + \dots - 8y - 1)(y^{64} - 13y^{63} + \dots - 124y + 1)$
c_5	$(y^{17} - 14y^{16} + \dots + 12y - 1)(y^{64} - 19y^{63} + \dots - 476y + 16)$
c_6, c_7, c_{12}	$(y^{17} + 17y^{16} + \dots + 8y - 1)(y^{64} + 56y^{63} + \dots - 176y + 1)$
c_{10}	$(y^{17} + 8y^{16} + \dots + 12y - 1)(y^{64} + 59y^{63} + \dots + 40y + 1)$
c_{11}	$(y^{17} - 6y^{16} + \dots + 54y - 1)$ $\cdot (y^{64} - 27y^{63} + \dots - 32929622y + 259081)$