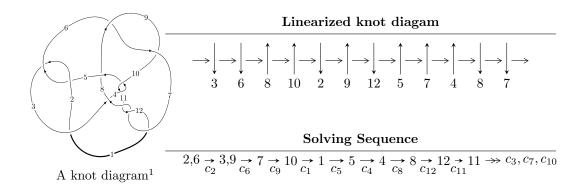
$12n_{0493} \ (K12n_{0493})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -5.43760 \times 10^{104} u^{68} + 2.00230 \times 10^{105} u^{67} + \dots + 1.22634 \times 10^{105} b - 1.11649 \times 10^{106}, \\ &\quad 4.64010 \times 10^{105} u^{68} - 1.59745 \times 10^{106} u^{67} + \dots + 1.34897 \times 10^{106} a + 7.48313 \times 10^{106}, \\ &\quad u^{69} - 4u^{68} + \dots + 56u - 11 \rangle \\ I_2^u &= \langle 10u^{22} + 5u^{21} + \dots + b - 13, \ 5u^{22} + 2u^{21} + \dots + a - 3, \ u^{23} + u^{22} + \dots - u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 92 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).

² All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I.
$$I_1^u = \langle -5.44 \times 10^{104} u^{68} + 2.00 \times 10^{105} u^{67} + \dots + 1.23 \times 10^{105} b - 1.12 \times 10^{106}, \ 4.64 \times 10^{105} u^{68} - 1.60 \times 10^{106} u^{67} + \dots + 1.35 \times 10^{106} a + 7.48 \times 10^{106}, \ u^{69} - 4u^{68} + \dots + 56u - 11 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.343973u^{68} + 1.18420u^{67} + \dots + 17.5685u - 5.54728 \\ 0.443401u^{68} - 1.63275u^{67} + \dots - 32.3170u + 9.10424 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.576164u^{68} + 1.77245u^{67} + \dots + 24.1892u - 5.92136 \\ -0.358276u^{68} + 0.999822u^{67} + \dots + 13.4977u - 3.58010 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.494384u^{68} - 1.74440u^{67} + \dots - 36.5327u + 8.98958 \\ 0.165294u^{68} - 0.478041u^{67} + \dots - 7.38945u + 2.38124 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.10192u^{68} - 3.35873u^{67} + \dots + 47.8714u + 14.8013 \\ 0.0132321u^{68} - 0.00521372u^{67} + \dots + 5.24343u - 0.0882060 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.311783u^{68} + 1.36760u^{67} + \dots + 27.5302u - 9.20533 \\ 0.475591u^{68} - 1.44935u^{67} + \dots + 22.3553u + 5.44619 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.842075u^{68} - 3.29112u^{67} + \dots - 71.9419u + 20.0300 \\ -0.344233u^{68} + 0.630033u^{67} + \dots - 6.87988u + 4.46895 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.829938u^{68} + 1.76140u^{67} + \dots - 4.47063u + 5.32558 \\ -1.27286u^{68} + 3.52866u^{67} + \dots + 35.8363u - 4.75348 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $3.43232u^{68} 10.6390u^{67} + \dots 136.515u + 28.1198$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{69} + 36u^{68} + \dots + 474u + 121$
c_2, c_5	$u^{69} + 4u^{68} + \dots + 56u + 11$
c_3	$u^{69} + u^{68} + \dots + 29817u + 6379$
c_4, c_{10}	$u^{69} + 3u^{68} + \dots - 1049u + 701$
c_6, c_9	$u^{69} - 3u^{68} + \dots + 55u + 193$
c_7, c_{11}, c_{12}	$u^{69} + 2u^{68} + \dots + 13u - 1$
c_8	$u^{69} - u^{68} + \dots + 395u - 29$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{69} + 8y^{68} + \dots - 141470y - 14641$
c_2, c_5	$y^{69} - 36y^{68} + \dots + 474y - 121$
c_3	$y^{69} + 81y^{68} + \dots - 1405779003y - 40691641$
c_4, c_{10}	$y^{69} + 77y^{68} + \dots - 18986053y - 491401$
c_6, c_9	$y^{69} - 33y^{68} + \dots + 199499y - 37249$
c_7, c_{11}, c_{12}	$y^{69} + 20y^{68} + \dots + 9y - 1$
c_8	$y^{69} - 23y^{68} + \dots + 200453y - 841$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.290552 + 0.976534I		
a = 0.662659 + 1.042150I	3.93320 - 4.10094I	0. + 7.59043I
b = -0.021606 + 0.325176I		
u = -0.290552 - 0.976534I		
a = 0.662659 - 1.042150I	3.93320 + 4.10094I	0 7.59043I
b = -0.021606 - 0.325176I		
u = 0.170915 + 1.016760I		
a = 0.735038 - 0.888007I	-3.69662 + 2.16087I	0
b = -0.122632 + 0.149326I		
u = 0.170915 - 1.016760I		
a = 0.735038 + 0.888007I	-3.69662 - 2.16087I	0
b = -0.122632 - 0.149326I		
u = 0.845794 + 0.445199I		
a = 1.042270 - 0.541687I	1.75302 + 0.23405I	2.64178 + 0.I
b = 1.05454 - 1.32366I		
u = 0.845794 - 0.445199I		
a = 1.042270 + 0.541687I	1.75302 - 0.23405I	2.64178 + 0.I
b = 1.05454 + 1.32366I		
u = 0.798359 + 0.685065I		
a = 1.103240 - 0.280353I	2.19476 + 0.59175I	0
b = 0.552794 - 0.298714I		
u = 0.798359 - 0.685065I		
a = 1.103240 + 0.280353I	2.19476 - 0.59175I	0
b = 0.552794 + 0.298714I		
u = -0.611426 + 0.705280I		
a = 0.834581 + 0.752090I	6.87382 + 1.62388I	8.32922 - 2.64435I
b = -0.413709 - 0.331884I		
u = -0.611426 - 0.705280I		
a = 0.834581 - 0.752090I	6.87382 - 1.62388I	8.32922 + 2.64435I
b = -0.413709 + 0.331884I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.673306 + 0.638312I		
a = -1.45289 - 0.49248I	2.72164 - 0.99882I	0 1.55232I
b = -0.339907 + 0.110846I		
u = -0.673306 - 0.638312I		
a = -1.45289 + 0.49248I	2.72164 + 0.99882I	0. + 1.55232I
b = -0.339907 - 0.110846I		
u = 0.828451 + 0.406795I		
a = 1.37279 - 0.90899I	1.87674 - 3.82550I	0. + 7.69744I
b = 0.076668 - 0.891427I		
u = 0.828451 - 0.406795I		
a = 1.37279 + 0.90899I	1.87674 + 3.82550I	0 7.69744I
b = 0.076668 + 0.891427I		
u = -1.011290 + 0.463825I		
a = -0.817036 - 1.011240I	1.46489 + 5.12150I	0
b = -1.21636 - 1.85408I		
u = -1.011290 - 0.463825I		
a = -0.817036 + 1.011240I	1.46489 - 5.12150I	0
b = -1.21636 + 1.85408I		
u = -1.048530 + 0.378591I		
a = 0.491834 - 0.900948I	-2.49072 + 3.79882I	0
b = 0.00957 - 1.57580I		
u = -1.048530 - 0.378591I		
a = 0.491834 + 0.900948I	-2.49072 - 3.79882I	0
b = 0.00957 + 1.57580I		
u = 0.398655 + 1.050660I		
a = -0.931521 + 0.797871I	-2.97736 + 9.69199I	0
b = 0.157270 + 0.032104I		
u = 0.398655 - 1.050660I		
a = -0.931521 - 0.797871I	-2.97736 - 9.69199I	0
b = 0.157270 - 0.032104I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.843195 + 0.221726I		
a = -0.93965 + 1.06792I	-1.18583 - 1.43148I	3.84710 - 6.37744I
b = -0.52957 + 1.58476I		
u = -0.843195 - 0.221726I		
a = -0.93965 - 1.06792I	-1.18583 + 1.43148I	3.84710 + 6.37744I
b = -0.52957 - 1.58476I		
u = -0.592910 + 0.619767I		
a = -1.42026 - 0.66221I	2.72523 - 1.00845I	1.13200 - 1.33542I
b = -0.267942 + 0.039618I		
u = -0.592910 - 0.619767I		
a = -1.42026 + 0.66221I	2.72523 + 1.00845I	1.13200 + 1.33542I
b = -0.267942 - 0.039618I		
u = 0.937541 + 0.663875I		
a = 0.369232 - 1.125340I	1.73480 - 5.81339I	0
b = 0.23643 - 1.79333I		
u = 0.937541 - 0.663875I		
a = 0.369232 + 1.125340I	1.73480 + 5.81339I	0
b = 0.23643 + 1.79333I		
u = 1.095940 + 0.350670I		
a = -0.474582 + 0.632682I	3.07674 - 3.26894I	0
b = -1.72631 + 1.19121I		
u = 1.095940 - 0.350670I		
a = -0.474582 - 0.632682I	3.07674 + 3.26894I	0
b = -1.72631 - 1.19121I		
u = -1.081310 + 0.487072I		
a = -0.659733 - 0.708574I	-7.58609 + 6.42641I	0
b = 0.62165 - 1.72240I		
u = -1.081310 - 0.487072I		
a = -0.659733 + 0.708574I	-7.58609 - 6.42641I	0
b = 0.62165 + 1.72240I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.105510 + 0.431642I		
a = 1.004780 + 0.584794I	-7.94202 - 0.79088I	0
b = 0.26453 + 1.61847I		
u = 1.105510 - 0.431642I		
a = 1.004780 - 0.584794I	-7.94202 + 0.79088I	0
b = 0.26453 - 1.61847I		
u = -1.147280 + 0.304107I		
a = 0.550803 + 0.761091I	-9.68321 - 0.62268I	0
b = -0.31435 + 1.82784I		
u = -1.147280 - 0.304107I		
a = 0.550803 - 0.761091I	-9.68321 + 0.62268I	0
b = -0.31435 - 1.82784I		
u = -0.993265 + 0.683955I		
a = -0.282845 - 1.144910I	1.75235 + 6.29447I	0
b = -0.76540 - 1.96652I		
u = -0.993265 - 0.683955I		
a = -0.282845 + 1.144910I	1.75235 - 6.29447I	0
b = -0.76540 + 1.96652I		
u = 1.207420 + 0.035311I		
a = 0.069551 + 0.357262I	-2.81273 - 0.16209I	0
b = 0.526334 + 0.627810I		
u = 1.207420 - 0.035311I		
a = 0.069551 - 0.357262I	-2.81273 + 0.16209I	0
b = 0.526334 - 0.627810I		
u = -1.033920 + 0.650381I		
a = 0.381960 + 0.552392I	5.59026 + 3.61321I	0
b = 1.18877 + 1.43009I		
u = -1.033920 - 0.650381I		
a = 0.381960 - 0.552392I	5.59026 - 3.61321I	0
b = 1.18877 - 1.43009I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.117680 + 0.556781I		
a = -0.890564 - 0.750983I	-7.95415 - 8.38570I	0
b = -0.37281 - 1.65828I		
u = 1.117680 - 0.556781I		
a = -0.890564 + 0.750983I	-7.95415 + 8.38570I	0
b = -0.37281 + 1.65828I		
u = 1.085710 + 0.625989I		
a = -0.503128 + 0.612693I	-1.07599 - 2.78600I	0
b = -0.287588 + 1.243300I		
u = 1.085710 - 0.625989I		
a = -0.503128 - 0.612693I	-1.07599 + 2.78600I	0
b = -0.287588 - 1.243300I		
u = 0.798698 + 0.974655I		
a = -0.432695 + 0.595898I	-0.24985 - 3.26069I	0
b = -0.166512 + 0.361764I		
u = 0.798698 - 0.974655I		
a = -0.432695 - 0.595898I	-0.24985 + 3.26069I	0
b = -0.166512 - 0.361764I		
u = 0.319351 + 0.663934I		
a = 1.11830 + 1.01941I	-5.68469 + 3.59684I	0.14375 - 2.17339I
b = -0.155956 + 1.246900I		
u = 0.319351 - 0.663934I		
a = 1.11830 - 1.01941I	-5.68469 - 3.59684I	0.14375 + 2.17339I
b = -0.155956 - 1.246900I		
u = 0.961426 + 0.848715I		
a = -0.426077 + 0.482317I	-0.94415 - 3.29961I	0
b = -0.077045 + 1.197380I		
u = 0.961426 - 0.848715I		
a = -0.426077 - 0.482317I	-0.94415 + 3.29961I	0
b = -0.077045 - 1.197380I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.687662 + 0.185413I		
a = -1.79140 - 0.10939I	4.79965 + 0.76507I	-0.89012 - 1.45079I
b = 0.487312 - 1.099210I		
u = 0.687662 - 0.185413I		
a = -1.79140 + 0.10939I	4.79965 - 0.76507I	-0.89012 + 1.45079I
b = 0.487312 + 1.099210I		
u = -1.196820 + 0.622088I		
a = 0.667975 + 0.833159I	1.19205 + 9.84022I	0
b = 0.97633 + 1.75198I		
u = -1.196820 - 0.622088I		
a = 0.667975 - 0.833159I	1.19205 - 9.84022I	0
b = 0.97633 - 1.75198I		
u = 1.258550 + 0.582507I		
a = 0.452188 - 0.889836I	-7.04483 - 7.85806I	0
b = 1.10957 - 1.91755I		
u = 1.258550 - 0.582507I		
a = 0.452188 + 0.889836I	-7.04483 + 7.85806I	0
b = 1.10957 + 1.91755I		
u = 1.213600 + 0.688126I		
a = -0.517780 + 0.965581I	-5.5104 - 15.9437I	0
b = -1.02405 + 2.11674I		
u = 1.213600 - 0.688126I		
a = -0.517780 - 0.965581I	-5.5104 + 15.9437I	0
b = -1.02405 - 2.11674I		
u = -0.499390 + 0.340618I		
a = -0.919752 - 0.049244I	-5.61165 - 2.54761I	5.30359 + 0.02313I
b = 0.05015 - 2.33868I		
u = -0.499390 - 0.340618I		
a = -0.919752 + 0.049244I	-5.61165 + 2.54761I	5.30359 - 0.02313I
b = 0.05015 + 2.33868I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.43623		
a = -0.433547	-2.53296	0
b = -0.479698		
u = -1.41770 + 0.37374I		
a = -0.534463 + 0.162015I	-8.86518 + 2.79325I	0
b = -1.213010 + 0.496378I		
u = -1.41770 - 0.37374I		
a = -0.534463 - 0.162015I	-8.86518 - 2.79325I	0
b = -1.213010 - 0.496378I		
u = -1.46407 + 0.12048I		
a = 0.606194 - 0.353781I	-9.73214 - 5.62474I	0
b = 1.12078 - 0.89971I		
u = -1.46407 - 0.12048I		
a = 0.606194 + 0.353781I	-9.73214 + 5.62474I	0
b = 1.12078 + 0.89971I		
u = 0.262574 + 0.365414I		
a = -1.05942 - 1.83282I	-5.45507 - 2.87217I	0.41122 + 5.66898I
b = 0.95586 - 1.50255I		
u = 0.262574 - 0.365414I		
a = -1.05942 + 1.83282I	-5.45507 + 2.87217I	0.41122 - 5.66898I
b = 0.95586 + 1.50255I		
u = 0.093022 + 0.383439I		
a = -0.920079 - 0.537348I	0.152285 - 1.032960I	2.47400 + 6.54310I
b = -0.133968 + 0.391648I		
u = 0.093022 - 0.383439I		
a = -0.920079 + 0.537348I	0.152285 + 1.032960I	2.47400 - 6.54310I
b = -0.133968 - 0.391648I		

$$II. \\ I_2^u = \langle 10u^{22} + 5u^{21} + \dots + b - 13, \ 5u^{22} + 2u^{21} + \dots + a - 3, \ u^{23} + u^{22} + \dots - u - 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -5u^{22} - 2u^{21} + \dots + u + 3 \\ -10u^{22} - 5u^{21} + \dots - 5u + 13 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -2u^{22} - 3u^{21} + \dots - 2u + 3 \\ -4u^{22} - 3u^{21} + \dots - 6u + 4 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{22} + 5u^{20} + \dots - u^{2} - 4u \\ -8u^{22} - 2u^{21} + \dots - 4u + 11 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -5u^{22} - 3u^{21} + \dots - 6u + 9 \\ -7u^{22} - 4u^{21} + \dots - 14u + 16 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -5u^{22} - u^{21} + \dots + 4u + 1 \\ -10u^{22} - 4u^{21} + \dots - 2u + 11 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 3u^{22} + u^{21} + \dots - u - 7 \\ 4u^{22} + 2u^{21} + \dots + 5u - 9 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2u^{22} - 2u^{21} + \dots + 9u^{2} - 3u \\ 5u^{22} + u^{21} + \dots + u - 7 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= 10u^{21} + 6u^{20} - 52u^{19} - 29u^{18} + 158u^{17} + 88u^{16} - 345u^{15} - 211u^{14} + 537u^{13} + 359u^{12} - 638u^{11} - 465u^{10} + 558u^9 + 395u^8 - 397u^7 - 259u^6 + 220u^5 + 99u^4 - 84u^3 - 22u^2 + 29u^3 - 259u^6 + 220u^5 + 290u^6 + 220u^5 +$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 13u^{22} + \dots + 13u - 1$
c_2	$u^{23} + u^{22} + \dots - u - 1$
c_3	$u^{23} + 2u^{21} + \dots + 2u - 1$
c_4	$u^{23} + 12u^{21} + \dots + 19u^2 + 1$
<i>C</i> 5	$u^{23} - u^{22} + \dots - u + 1$
<i>C</i> ₆	$u^{23} + 4u^{22} + \dots + 4u + 1$
C ₇	$u^{23} + u^{22} + \dots - 6u^2 - 1$
<i>c</i> ₈	$u^{23} - 8u^{21} + \dots + 8u^2 + 1$
<i>C</i> 9	$u^{23} - 4u^{22} + \dots + 4u - 1$
c_{10}	$u^{23} + 12u^{21} + \dots - 19u^2 - 1$
c_{11}, c_{12}	$u^{23} - u^{22} + \dots + 6u^2 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} + 7y^{22} + \dots - 7y - 1$
c_2, c_5	$y^{23} - 13y^{22} + \dots + 13y - 1$
c_3	$y^{23} + 4y^{22} + \dots - 28y - 1$
c_4,c_{10}	$y^{23} + 24y^{22} + \dots - 38y - 1$
c_6, c_9	$y^{23} - 14y^{22} + \dots - 2y - 1$
c_7, c_{11}, c_{12}	$y^{23} + 19y^{22} + \dots - 12y - 1$
c_8	$y^{23} - 16y^{22} + \dots - 16y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.727530 + 0.675450I		
a = -1.56715 - 0.40087I	3.36055 - 1.47768I	8.91324 + 4.94896I
b = -0.658564 + 0.037949I		
u = -0.727530 - 0.675450I		
a = -1.56715 + 0.40087I	3.36055 + 1.47768I	8.91324 - 4.94896I
b = -0.658564 - 0.037949I		
u = -0.714405 + 0.569856I		
a = 1.342420 + 0.352259I	5.87840 - 0.07399I	4.63766 - 1.08939I
b = -0.106804 - 0.755904I		
u = -0.714405 - 0.569856I		
a = 1.342420 - 0.352259I	5.87840 + 0.07399I	4.63766 + 1.08939I
b = -0.106804 + 0.755904I		
u = 0.873281 + 0.058843I		
a = 0.641877 + 1.056520I	-1.38657 + 1.89044I	-3.01798 - 8.02298I
b = 0.66167 + 1.39799I		
u = 0.873281 - 0.058843I		
a = 0.641877 - 1.056520I	-1.38657 - 1.89044I	-3.01798 + 8.02298I
b = 0.66167 - 1.39799I		
u = 0.682792 + 0.510727I		
a = -1.015220 + 0.899830I	5.58168 - 2.30519I	2.87757 + 4.60257I
b = 0.801359 + 0.100013I		
u = 0.682792 - 0.510727I		
a = -1.015220 - 0.899830I	5.58168 + 2.30519I	2.87757 - 4.60257I
b = 0.801359 - 0.100013I		
u = -1.013700 + 0.592894I		
a = 0.385259 + 0.861396I	4.88003 + 4.72768I	2.32962 - 6.66073I
b = 1.35384 + 1.59496I		
u = -1.013700 - 0.592894I		
a = 0.385259 - 0.861396I	4.88003 - 4.72768I	2.32962 + 6.66073I
b = 1.35384 - 1.59496I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.966870 + 0.667630I		
a = -0.395637 - 1.302340I	2.61955 + 6.69998I	6.96792 - 9.85887I
b = -0.71928 - 2.04019I		
u = -0.966870 - 0.667630I		
a = -0.395637 + 1.302340I	2.61955 - 6.69998I	6.96792 + 9.85887I
b = -0.71928 + 2.04019I		
u = 1.075530 + 0.534802I		
a = -0.628727 + 0.324551I	4.23211 - 1.97181I	3.03479 + 1.17838I
b = -1.44754 + 1.17940I		
u = 1.075530 - 0.534802I		
a = -0.628727 - 0.324551I	4.23211 + 1.97181I	3.03479 - 1.17838I
b = -1.44754 - 1.17940I		
u = -1.303880 + 0.187284I		
a = -0.064693 - 0.287125I	-8.98729 + 3.97495I	-2.00222 - 3.71380I
b = -0.366099 + 0.386969I		
u = -1.303880 - 0.187284I		
a = -0.064693 + 0.287125I	-8.98729 - 3.97495I	-2.00222 + 3.71380I
b = -0.366099 - 0.386969I		
u = 0.490623 + 0.440201I		
a = 1.30058 - 1.63355I	2.16809 - 2.83861I	2.59802 + 1.74039I
b = 0.139386 - 0.970644I		
u = 0.490623 - 0.440201I		
a = 1.30058 + 1.63355I	2.16809 + 2.83861I	2.59802 - 1.74039I
b = 0.139386 + 0.970644I		
u = -0.616125 + 0.120813I		
a = -0.586870 + 0.956582I	-6.13496 - 2.58789I	-11.43780 + 1.43765I
b = -0.61338 + 2.92957I		
u = -0.616125 - 0.120813I		
a = -0.586870 - 0.956582I	-6.13496 + 2.58789I	-11.43780 - 1.43765I
b = -0.61338 - 2.92957I		

	Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u =	1.012970 + 0.928867I		
a =	0.352126 - 0.506370I	-1.20499 - 3.62050I	-8.5555 + 14.1463I
b =	0.042965 - 1.016720I		
u =	1.012970 - 0.928867I		
a =	0.352126 + 0.506370I	-1.20499 + 3.62050I	-8.5555 - 14.1463I
b =	0.042965 + 1.016720I		
u =	1.41461		
a =	0.472066	-2.27398	14.3090
b =	0.824925		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{23} - 13u^{22} + \dots + 13u - 1)(u^{69} + 36u^{68} + \dots + 474u + 121) $
c_2	$(u^{23} + u^{22} + \dots - u - 1)(u^{69} + 4u^{68} + \dots + 56u + 11)$
<i>c</i> 3	$(u^{23} + 2u^{21} + \dots + 2u - 1)(u^{69} + u^{68} + \dots + 29817u + 6379)$
C ₄	$(u^{23} + 12u^{21} + \dots + 19u^2 + 1)(u^{69} + 3u^{68} + \dots - 1049u + 701)$
<i>C</i> ₅	$(u^{23} - u^{22} + \dots - u + 1)(u^{69} + 4u^{68} + \dots + 56u + 11)$
c_6	$(u^{23} + 4u^{22} + \dots + 4u + 1)(u^{69} - 3u^{68} + \dots + 55u + 193)$
c_7	$ (u^{23} + u^{22} + \dots - 6u^2 - 1)(u^{69} + 2u^{68} + \dots + 13u - 1) $
c_8	$ (u^{23} - 8u^{21} + \dots + 8u^2 + 1)(u^{69} - u^{68} + \dots + 395u - 29) $
<i>c</i> ₉	$ (u^{23} - 4u^{22} + \dots + 4u - 1)(u^{69} - 3u^{68} + \dots + 55u + 193) $
c_{10}	$(u^{23} + 12u^{21} + \dots - 19u^2 - 1)(u^{69} + 3u^{68} + \dots - 1049u + 701)$
c_{11}, c_{12}	$(u^{23} - u^{22} + \dots + 6u^2 + 1)(u^{69} + 2u^{68} + \dots + 13u - 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$ (y^{23} + 7y^{22} + \dots - 7y - 1)(y^{69} + 8y^{68} + \dots - 141470y - 14641) $
c_2, c_5	$(y^{23} - 13y^{22} + \dots + 13y - 1)(y^{69} - 36y^{68} + \dots + 474y - 121)$
c_3	$(y^{23} + 4y^{22} + \dots - 28y - 1)$ $\cdot (y^{69} + 81y^{68} + \dots - 1405779003y - 40691641)$
c_4, c_{10}	$(y^{23} + 24y^{22} + \dots - 38y - 1)$ $\cdot (y^{69} + 77y^{68} + \dots - 18986053y - 491401)$
c_{6}, c_{9}	$(y^{23} - 14y^{22} + \dots - 2y - 1)(y^{69} - 33y^{68} + \dots + 199499y - 37249)$
c_7, c_{11}, c_{12}	$(y^{23} + 19y^{22} + \dots - 12y - 1)(y^{69} + 20y^{68} + \dots + 9y - 1)$
c_8	$(y^{23} - 16y^{22} + \dots - 16y - 1)(y^{69} - 23y^{68} + \dots + 200453y - 841)$