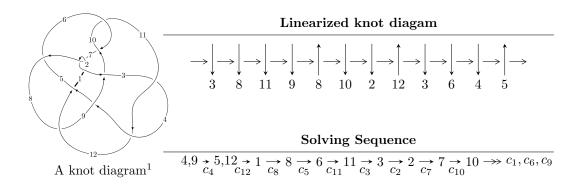
$12n_{0658} \ (K12n_{0658})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.74970 \times 10^{220} u^{64} - 1.41335 \times 10^{221} u^{63} + \dots + 1.94971 \times 10^{223} b - 7.61654 \times 10^{223}, \\ &- 4.48176 \times 10^{225} u^{64} - 5.69453 \times 10^{225} u^{63} + \dots + 3.97935 \times 10^{226} a - 1.23630 \times 10^{228}, \\ &u^{65} + 2 u^{64} + \dots + 1458 u + 157 \rangle \\ I_2^u &= \langle 10854430144646 u^{20} + 12300724825690 u^{19} + \dots + 24764957468951 b + 6039231440791, \\ &- 12861674233129 u^{20} - 2850243387257 u^{19} + \dots + 24764957468951 a - 12778119826149, \\ &u^{21} + u^{20} + \dots - 2 u^2 - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 86 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.
$$I_1^u = \langle 1.75 \times 10^{220} u^{64} - 1.41 \times 10^{221} u^{63} + \dots + 1.95 \times 10^{223} b - 7.62 \times 10^{223}, \ -4.48 \times 10^{225} u^{64} - 5.69 \times 10^{225} u^{63} + \dots + 3.98 \times 10^{226} a - 1.24 \times 10^{228}, \ u^{65} + 2u^{64} + \dots + 1458 u + 157 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.112625u^{64} + 0.143102u^{63} + \dots + 200.060u + 31.0678 \\ -0.000897414u^{64} + 0.00724903u^{63} + \dots + 27.8175u + 3.90651 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0572491u^{64} + 0.0774845u^{63} + \dots + 125.786u + 22.0769 \\ -0.0345792u^{64} - 0.0375444u^{63} + \dots - 29.2953u - 3.17970 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.173334u^{64} + 0.262177u^{63} + \dots + 356.620u + 53.0601 \\ -0.0965680u^{64} - 0.124883u^{63} + \dots - 167.497u - 21.7230 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -0.387923u^{64} - 0.492677u^{63} + \dots - 664.492u - 77.1226 \\ -0.0795910u^{64} - 0.138562u^{63} + \dots - 238.004u - 33.3801 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.111728u^{64} + 0.150351u^{63} + \dots + 227.877u + 34.9743 \\ -0.000897414u^{64} + 0.00724903u^{63} + \dots + 27.8175u + 3.90651 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.149474u^{64} + 0.217371u^{63} + \dots + 298.867u + 44.4819 \\ 0.0111114u^{64} + 0.0372127u^{63} + \dots + 10.3743u + 10.2454 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.154001u^{64} + 0.263124u^{63} + \dots + 298.867u + 44.4819 \\ -0.165095u^{64} - 0.209683u^{63} + \dots + 275.946u - 35.1275 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.366877u^{64} + 0.486483u^{63} + \dots + 403.453u + 65.6548 \\ -0.165095u^{64} - 0.209683u^{63} + \dots + 275.946u - 35.1275 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0507079u^{64} + 0.0927285u^{63} + \dots + 147.777u + 24.8200 \\ -0.123127u^{64} - 0.167850u^{63} + \dots + 230.663u - 29.1889 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.737275u^{64} 0.996152u^{63} + \cdots 1391.45u 188.248$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{65} + 80u^{64} + \dots + 26201631u + 703921$
c_2, c_7	$u^{65} + 2u^{64} + \dots + 2635u - 839$
c_3, c_{11}	$u^{65} - 25u^{63} + \dots - 25u - 1$
c_4	$u^{65} + 2u^{64} + \dots + 1458u + 157$
c_5	$u^{65} + 9u^{64} + \dots - 13866064u + 772201$
c_6, c_{10}	$u^{65} + 6u^{63} + \dots - 13u + 1$
c ₈	$u^{65} + 2u^{64} + \dots + 1534u + 169$
<i>C</i> 9	$u^{65} + u^{64} + \dots + 626468359u - 113770343$
c_{12}	$u^{65} - 2u^{64} + \dots - 23392u - 2011$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{65} - 160y^{64} + \dots - 124582077762381y - 495504774241$
c_2, c_7	$y^{65} - 80y^{64} + \dots + 26201631y - 703921$
c_3, c_{11}	$y^{65} - 50y^{64} + \dots + 31y - 1$
c_4	$y^{65} - 14y^{64} + \dots + 1831546y - 24649$
c_5	$y^{65} + 93y^{64} + \dots + 51698127994114y - 596294384401$
c_6, c_{10}	$y^{65} + 12y^{64} + \dots + 43y - 1$
c ₈	$y^{65} + 16y^{64} + \dots - 184548y - 28561$
<i>C</i> 9	$y^{65} - 71y^{64} + \dots + 305883945614896799y - 12943690946337649$
c_{12}	$y^{65} + 28y^{64} + \dots - 291747228y - 4044121$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.999373 + 0.102603I		
a = 0.183495 + 1.114360I	-13.3785 + 4.9395I	0
b = 1.47107 - 0.62237I		
u = 0.999373 - 0.102603I		
a = 0.183495 - 1.114360I	-13.3785 - 4.9395I	0
b = 1.47107 + 0.62237I		
u = 0.914140 + 0.418551I		
a = -0.274231 + 1.015020I	-0.55815 - 5.01766I	0
b = -0.037132 - 0.951807I		
u = 0.914140 - 0.418551I		
a = -0.274231 - 1.015020I	-0.55815 + 5.01766I	0
b = -0.037132 + 0.951807I		
u = 0.544942 + 0.848280I		
a = 0.017892 + 0.636408I	3.81958 - 0.87527I	0
b = 0.311547 - 0.836295I		
u = 0.544942 - 0.848280I		
a = 0.017892 - 0.636408I	3.81958 + 0.87527I	0
b = 0.311547 + 0.836295I		
u = -0.943989 + 0.244778I		
a = 1.89766 - 0.46660I	-12.02340 - 0.63123I	0
b = 1.322510 - 0.167180I		
u = -0.943989 - 0.244778I		
a = 1.89766 + 0.46660I	-12.02340 + 0.63123I	0
b = 1.322510 + 0.167180I		
u = -0.718967 + 0.646460I		
a = -0.19383 + 1.54085I	-3.94325 + 5.68345I	0
b = 1.39393 - 0.34126I		
u = -0.718967 - 0.646460I		
a = -0.19383 - 1.54085I	-3.94325 - 5.68345I	0
b = 1.39393 + 0.34126I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.564992 + 0.766638I		
a = 0.273439 - 1.139240I	0.17289 + 2.65260I	0
b = -0.098849 + 0.697594I		
u = -0.564992 - 0.766638I		
a = 0.273439 + 1.139240I	0.17289 - 2.65260I	0
b = -0.098849 - 0.697594I		
u = 1.032050 + 0.210054I		
a = 0.007300 + 0.663633I	-4.69587 - 0.11151I	0
b = -1.346550 - 0.430450I		
u = 1.032050 - 0.210054I		
a = 0.007300 - 0.663633I	-4.69587 + 0.11151I	0
b = -1.346550 + 0.430450I		
u = -1.008770 + 0.311992I		
a = -0.87655 - 2.02191I	-3.68102 + 0.89750I	0
b = -1.147410 + 0.096132I		
u = -1.008770 - 0.311992I		
a = -0.87655 + 2.02191I	-3.68102 - 0.89750I	0
b = -1.147410 - 0.096132I		
u = 0.819844 + 0.666051I		
a = -0.04947 + 1.83615I	-2.80582 - 3.86569I	0
b = -1.264320 - 0.103822I		
u = 0.819844 - 0.666051I		
a = -0.04947 - 1.83615I	-2.80582 + 3.86569I	0
b = -1.264320 + 0.103822I		
u = -1.06438		
a = 1.18973	-2.53871	0
b = -0.491702		
u = -0.861352 + 0.321812I		
a = 0.165841 - 0.909305I	-11.72340 + 3.05933I	-13.80482 + 0.I
b = 1.47564 + 0.76252I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.861352 - 0.321812I $a = 0.165841 + 0.909305I$ $b = 1.47564 - 0.76252I$	-11.72340 - 3.05933I	-13.80482 + 0.I
$\begin{array}{rcl} u = & 0.768490 + 0.184024I \\ a = & 2.38615 + 1.30513I \\ b = & 1.293180 + 0.139730I \end{array}$	-12.35970 - 6.17999I	-13.5430 + 5.2560I
$\begin{array}{rcl} u = & 0.768490 - 0.184024I \\ a = & 2.38615 - 1.30513I \\ b = & 1.293180 - 0.139730I \end{array}$	-12.35970 + 6.17999I	-13.5430 - 5.2560I
u = 0.681468 + 1.023020I $a = -0.584449 - 0.266422I$ $b = 1.169520 - 0.114705I$	-2.82139 + 3.87224I	0
u = 0.681468 - 1.023020I $a = -0.584449 + 0.266422I$ $b = 1.169520 + 0.114705I$	-2.82139 - 3.87224I	0
u = 1.059320 + 0.651414I $a = -0.068250 - 0.898603I$ $b = 0.142000 + 1.206150I$	-9.20705 - 1.83942I	0
u = 1.059320 - 0.651414I $a = -0.068250 + 0.898603I$ $b = 0.142000 - 1.206150I$	-9.20705 + 1.83942I	0
u = -0.699109 + 0.200716I $a = 0.822915 - 0.817830I$ $b = -0.173433 + 0.242316I$	-1.208910 + 0.548314I	-8.64501 - 2.55655I
u = -0.699109 - 0.200716I $a = 0.822915 + 0.817830I$ $b = -0.173433 - 0.242316I$	-1.208910 - 0.548314I	-8.64501 + 2.55655I
u = 0.862620 + 1.000680I $a = -0.850831 - 0.045360I$ $b = -0.106228 - 0.377671I$	-8.01748 - 4.29475I	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.862620 - 1.000680I		
a = -0.850831 + 0.045360I	-8.01748 + 4.29475I	0
b = -0.106228 + 0.377671I		
u = 1.158140 + 0.659100I		
a = 0.117313 - 1.313300I	-4.81417 - 9.90537I	0
b = 1.318680 + 0.427978I		
u = 1.158140 - 0.659100I		
a = 0.117313 + 1.313300I	-4.81417 + 9.90537I	0
b = 1.318680 - 0.427978I		
u = 0.512850 + 0.407512I		
a = -0.54396 + 1.92014I	-1.82076 - 0.96957I	-1.84094 - 0.74780I
b = -1.227830 - 0.206235I		
u = 0.512850 - 0.407512I		
a = -0.54396 - 1.92014I	-1.82076 + 0.96957I	-1.84094 + 0.74780I
b = -1.227830 + 0.206235I		
u = -1.075290 + 0.820321I		
a = 0.029326 + 0.907628I	-8.16440 + 10.11900I	0
b = 0.210489 - 1.168250I		
u = -1.075290 - 0.820321I		
a = 0.029326 - 0.907628I	-8.16440 - 10.11900I	0
b = 0.210489 + 1.168250I		
u = -0.633443 + 0.121495I		
a = 0.80489 - 1.99874I	-2.58233 + 0.73416I	-9.39358 + 8.45936I
b = -1.072970 + 0.269722I		
u = -0.633443 - 0.121495I		
a = 0.80489 + 1.99874I	-2.58233 - 0.73416I	-9.39358 - 8.45936I
b = -1.072970 - 0.269722I		
u = -1.144370 + 0.749445I		
a = 0.001986 - 0.627491I	-1.63568 + 5.32861I	0
b = -1.32660 + 0.55872I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.144370 - 0.749445I		
a = 0.001986 + 0.627491I	-1.63568 - 5.32861I	0
b = -1.32660 - 0.55872I		
u = 0.551203 + 0.205508I		
a = 0.96007 - 1.78056I	0.93353 - 2.84266I	-8.27444 - 0.53942I
b = -0.0840652 + 0.0654924I		
u = 0.551203 - 0.205508I		
a = 0.96007 + 1.78056I	0.93353 + 2.84266I	-8.27444 + 0.53942I
b = -0.0840652 - 0.0654924I		
u = -0.94708 + 1.13082I		
a = -0.289084 + 0.976259I	-4.26583 + 6.35751I	0
b = 1.321940 - 0.311580I		
u = -0.94708 - 1.13082I		
a = -0.289084 - 0.976259I	-4.26583 - 6.35751I	0
b = 1.321940 + 0.311580I		
u = -0.96950 + 1.11387I		
a = -0.666748 - 0.221312I	-7.36307 - 3.09669I	0
b = -0.152577 + 0.535195I		
u = -0.96950 - 1.11387I		
a = -0.666748 + 0.221312I	-7.36307 + 3.09669I	0
b = -0.152577 - 0.535195I		
u = 0.017003 + 0.520994I		
a = 0.52264 - 1.79134I	1.35247 + 2.01752I	-0.32815 - 3.57932I
b = -0.170066 + 0.616830I		
u = 0.017003 - 0.520994I		
a = 0.52264 + 1.79134I	1.35247 - 2.01752I	-0.32815 + 3.57932I
b = -0.170066 - 0.616830I		
u = -0.487051 + 0.184553I		
a = -0.523976 + 0.683896I	2.05730 - 1.12785I	-14.5677 + 6.0985I
b = -0.364029 - 1.277030I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.487051 - 0.184553I		
a = -0.523976 - 0.683896I	2.05730 + 1.12785I	-14.5677 - 6.0985I
b = -0.364029 + 1.277030I		
u = 1.34403 + 0.87395I		
a = 0.245632 - 0.677061I	1.20608 - 5.29372I	0
b = 1.137180 + 0.382997I		
u = 1.34403 - 0.87395I		
a = 0.245632 + 0.677061I	1.20608 + 5.29372I	0
b = 1.137180 - 0.382997I		
u = -1.62477		
a = 0.128143	-8.24749	0
b = 1.37061		
u = 1.48370 + 0.87202I		
a = -0.057752 + 0.890430I	-14.2637 - 7.7830I	0
b = -1.44306 - 0.50190I		
u = 1.48370 - 0.87202I		
a = -0.057752 - 0.890430I	-14.2637 + 7.7830I	0
b = -1.44306 + 0.50190I		
u = -1.44711 + 0.93929I		
a = -0.099582 - 0.974443I	-13.4195 + 15.8987I	0
b = -1.45292 + 0.48475I		
u = -1.44711 - 0.93929I		
a = -0.099582 + 0.974443I	-13.4195 - 15.8987I	0
b = -1.45292 - 0.48475I		
u = -1.37855 + 1.03960I		
a = -0.123840 + 0.435880I	-4.94093 + 1.63213I	0
b = 1.190040 - 0.087701I		
u = -1.37855 - 1.03960I		
a = -0.123840 - 0.435880I	-4.94093 - 1.63213I	0
b = 1.190040 + 0.087701I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.144278		
a = 5.40384	-1.17407	-8.98220
b = -0.674268		
u = 1.62504 + 2.08961I		
a = 0.195235 + 0.198274I	-11.29140 - 2.66062I	0
b = -1.214090 + 0.100227I		
u = 1.62504 - 2.08961I		
a = 0.195235 - 0.198274I	-11.29140 + 2.66062I	0
b = -1.214090 - 0.100227I		
u = -1.07793 + 2.55737I		
a = 0.184452 + 0.002607I	-10.35930 - 5.79368I	0
b = -1.177930 - 0.198966I		
u = -1.07793 - 2.55737I		
a = 0.184452 - 0.002607I	-10.35930 + 5.79368I	0
b = -1.177930 + 0.198966I		

TT.

$$I_2^u = \langle 1.09 \times 10^{13} u^{20} + 1.23 \times 10^{13} u^{19} + \dots + 2.48 \times 10^{13} b + 6.04 \times 10^{12}, -1.29 \times 10^{13} u^{20} - 2.85 \times 10^{12} u^{19} + \dots + 2.48 \times 10^{13} a - 1.28 \times 10^{13}, \ u^{21} + u^{20} + \dots - 2u^2 - 1 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.519350u^{20} + 0.115092u^{19} + \dots + 4.75906u + 0.515976 \\ -0.438298u^{20} - 0.496699u^{19} + \dots - 1.49110u - 0.243862 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.432185u^{20} - 0.347015u^{19} + \dots + 2.74861u + 0.676372 \\ 0.0360697u^{20} - 0.276002u^{19} + \dots - 1.57826u - 0.618804 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.343067u^{20} + 0.800587u^{19} + \dots + 0.543328u + 2.17015 \\ -0.349292u^{20} - 0.630439u^{19} + \dots + 2.20499u + 0.0265777 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.561265u^{20} + 1.60373u^{19} + \dots + 2.41615u + 1.51061 \\ 0.0890616u^{20} - 0.213890u^{19} + \dots + 2.41615u + 1.51061 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.0810518u^{20} - 0.381607u^{19} + \dots + 3.26796u + 0.272114 \\ -0.438298u^{20} - 0.496699u^{19} + \dots - 1.49110u - 0.243862 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.713332u^{20} - 0.888724u^{19} + \dots + 4.27797u + 1.97434 \\ -0.739910u^{20} - 0.566010u^{19} + \dots - 2.10462u - 0.230652 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.0219095u^{20} - 0.283308u^{19} + \dots + 2.48653u + 0.812160 \\ -0.519367u^{20} - 0.445460u^{19} + \dots - 2.03367u + 0.145816 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1.01832u^{20} + 1.08146u^{19} + \dots + 1.09672u + 1.27496 \\ 0.272340u^{20} - 0.310322u^{19} + \dots + 2.54320u - 0.924913 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.684289u^{20} + 0.403574u^{19} + \dots + 1.29439u + 3.50062 \\ -0.623557u^{20} - 1.06224u^{19} + \dots + 1.98393u - 0.232468 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{21} - 21u^{20} + \dots - 3u - 1$
c_2	$u^{21} - u^{20} + \dots + 3u - 1$
c_3	$u^{21} - u^{20} + \dots + 11u + 7$
c_4	$u^{21} + u^{20} + \dots - 2u^2 - 1$
c_5	$u^{21} + 2u^{20} + \dots + 6u - 7$
c_6	$u^{21} + u^{20} + \dots - u + 1$
c_7	$u^{21} + u^{20} + \dots + 3u + 1$
c_8	$u^{21} + u^{20} + \dots - 4u + 1$
<i>C</i> 9	$u^{21} + 2u^{20} + \dots - 71u + 19$
c_{10}	$u^{21} - u^{20} + \dots - u - 1$
c_{11}	$u^{21} + u^{20} + \dots + 11u - 7$
c_{12}	$u^{21} - 3u^{20} + \dots + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{21} - 53y^{20} + \dots + 73y - 1$
c_2, c_7	$y^{21} - 21y^{20} + \dots - 3y - 1$
c_3, c_{11}	$y^{21} - 15y^{20} + \dots + 93y - 49$
c_4	$y^{21} + 5y^{20} + \dots - 4y - 1$
c_5	$y^{21} - 12y^{20} + \dots + 2108y - 49$
c_6, c_{10}	$y^{21} + 15y^{20} + \dots + 5y - 1$
C ₈	$y^{21} + 3y^{20} + \dots + 6y - 1$
<i>c</i> 9	$y^{21} - 8y^{20} + \dots - 6815y - 361$
c_{12}	$y^{21} - y^{20} + \dots + 2y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.995040		
a = 1.53732	-2.63990	-61.2880
b = -0.633509		
u = 0.887942 + 0.265832I		
a = -0.27186 + 1.60857I	-3.10576 - 1.08145I	-11.60473 - 1.20772I
b = -1.105880 - 0.231970I		
u = 0.887942 - 0.265832I		
a = -0.27186 - 1.60857I	-3.10576 + 1.08145I	-11.60473 + 1.20772I
b = -1.105880 + 0.231970I		
u = 0.335007 + 0.764873I		
a = 0.349475 + 0.797361I	2.99868 - 1.45719I	-4.59366 + 6.14585I
b = 0.126425 - 1.048160I		
u = 0.335007 - 0.764873I		
a = 0.349475 - 0.797361I	2.99868 + 1.45719I	-4.59366 - 6.14585I
b = 0.126425 + 1.048160I		
u = -0.768678 + 0.960873I		
a = -0.391291 + 1.331950I	-3.38645 + 6.55264I	-3.36004 - 8.68236I
b = 1.355210 - 0.281637I		
u = -0.768678 - 0.960873I		
a = -0.391291 - 1.331950I	-3.38645 - 6.55264I	-3.36004 + 8.68236I
b = 1.355210 + 0.281637I		
u = -0.480430 + 0.542921I		
a = 0.03174 - 1.74407I	1.33027 + 3.34421I	0.81047 - 9.50324I
b = -0.102734 + 0.532504I		
u = -0.480430 - 0.542921I		
a = 0.03174 + 1.74407I	1.33027 - 3.34421I	0.81047 + 9.50324I
b = -0.102734 - 0.532504I		
u = -0.598889 + 0.406001I		
a = 0.173713 + 0.637671I	2.34945 - 0.74831I	-4.02686 - 6.25327I
b = -0.631828 - 1.130440I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.598889 - 0.406001I		
a = 0.173713 - 0.637671I	2.34945 + 0.74831I	-4.02686 + 6.25327I
b = -0.631828 + 1.130440I		
u = -1.166620 + 0.527651I		
a = -0.579151 - 0.728388I	0.49818 + 4.56432I	-8.19695 - 3.48083I
b = -1.089360 + 0.405520I		
u = -1.166620 - 0.527651I		
a = -0.579151 + 0.728388I	0.49818 - 4.56432I	-8.19695 + 3.48083I
b = -1.089360 - 0.405520I		
u = -0.725758 + 1.061050I		
a = 0.271335 + 0.349520I	-10.06770 + 2.53564I	-8.77876 - 1.65013I
b = 1.175310 + 0.315124I		
u = -0.725758 - 1.061050I		
a = 0.271335 - 0.349520I	-10.06770 - 2.53564I	-8.77876 + 1.65013I
b = 1.175310 - 0.315124I		
u = 0.216516 + 0.360136I		
a = 2.00760 + 2.33089I	-3.10125 - 2.22500I	-10.50218 + 2.63419I
b = -1.304550 - 0.087060I		
u = 0.216516 - 0.360136I		
a = 2.00760 - 2.33089I	-3.10125 + 2.22500I	-10.50218 - 2.63419I
b = -1.304550 + 0.087060I		
u = 1.06547 + 1.24110I		
a = -0.085748 - 0.678299I	-0.73617 - 6.70838I	-6.14219 + 7.52338I
b = 1.279400 + 0.468268I		
u = 1.06547 - 1.24110I		
a = -0.085748 + 0.678299I	-0.73617 + 6.70838I	-6.14219 - 7.52338I
b = 1.279400 - 0.468268I		
u = 0.23792 + 1.75774I		
a = -0.274467 - 0.304190I	-10.13330 + 5.08046I	-10.46087 - 0.93338I
b = 1.114760 - 0.227134I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.23792 - 1.75774I		
a = -0.274467 + 0.304190I	-10.13330 - 5.08046I	-10.46087 + 0.93338I
b = 1.114760 + 0.227134I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{21} - 21u^{20} + \dots - 3u - 1)$ $\cdot (u^{65} + 80u^{64} + \dots + 26201631u + 703921)$
c_2	$ (u^{21} - u^{20} + \dots + 3u - 1)(u^{65} + 2u^{64} + \dots + 2635u - 839) $
c_3	$ (u^{21} - u^{20} + \dots + 11u + 7)(u^{65} - 25u^{63} + \dots - 25u - 1) $
c_4	$(u^{21} + u^{20} + \dots - 2u^2 - 1)(u^{65} + 2u^{64} + \dots + 1458u + 157)$
c_5	$(u^{21} + 2u^{20} + \dots + 6u - 7)(u^{65} + 9u^{64} + \dots - 1.38661 \times 10^7 u + 772201)$
c_6	$(u^{21} + u^{20} + \dots - u + 1)(u^{65} + 6u^{63} + \dots - 13u + 1)$
c_7	$(u^{21} + u^{20} + \dots + 3u + 1)(u^{65} + 2u^{64} + \dots + 2635u - 839)$
c_8	$(u^{21} + u^{20} + \dots - 4u + 1)(u^{65} + 2u^{64} + \dots + 1534u + 169)$
<i>C</i> 9	$(u^{21} + 2u^{20} + \dots - 71u + 19)$ $\cdot (u^{65} + u^{64} + \dots + 626468359u - 113770343)$
c_{10}	$(u^{21} - u^{20} + \dots - u - 1)(u^{65} + 6u^{63} + \dots - 13u + 1)$
c_{11}	$(u^{21} + u^{20} + \dots + 11u - 7)(u^{65} - 25u^{63} + \dots - 25u - 1)$
c_{12}	$(u^{21} - 3u^{20} + \dots + 2u - 1)(u^{65} - 2u^{64} + \dots - 23392u - 2011)$ 20

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{21} - 53y^{20} + \dots + 73y - 1)$ $\cdot (y^{65} - 160y^{64} + \dots - 124582077762381y - 495504774241)$
c_2, c_7	$(y^{21} - 21y^{20} + \dots - 3y - 1)$ $\cdot (y^{65} - 80y^{64} + \dots + 26201631y - 703921)$
c_3, c_{11}	$(y^{21} - 15y^{20} + \dots + 93y - 49)(y^{65} - 50y^{64} + \dots + 31y - 1)$
c_4	$(y^{21} + 5y^{20} + \dots - 4y - 1)(y^{65} - 14y^{64} + \dots + 1831546y - 24649)$
<i>c</i> ₅	$(y^{21} - 12y^{20} + \dots + 2108y - 49)$ $\cdot (y^{65} + 93y^{64} + \dots + 51698127994114y - 596294384401)$
c_6, c_{10}	$(y^{21} + 15y^{20} + \dots + 5y - 1)(y^{65} + 12y^{64} + \dots + 43y - 1)$
C ₈	$(y^{21} + 3y^{20} + \dots + 6y - 1)(y^{65} + 16y^{64} + \dots - 184548y - 28561)$
<i>c</i> 9	$(y^{21} - 8y^{20} + \dots - 6815y - 361)$ $\cdot (y^{65} - 71y^{64} + \dots + 305883945614896799y - 12943690946337649)$
c_{12}	$(y^{21} - y^{20} + \dots + 2y - 1)$ $\cdot (y^{65} + 28y^{64} + \dots - 291747228y - 4044121)$