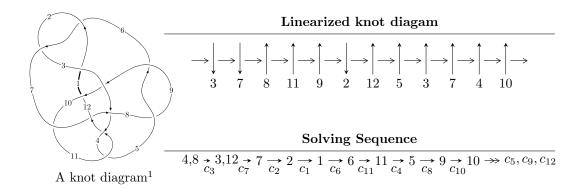
$12n_{0606} \ (K12n_{0606})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.60434 \times 10^{191} u^{60} + 3.06370 \times 10^{190} u^{59} + \dots + 9.90808 \times 10^{192} b - 1.81924 \times 10^{193}, \\ &1.45667 \times 10^{192} u^{60} - 2.33309 \times 10^{192} u^{59} + \dots + 1.98162 \times 10^{193} a + 2.73135 \times 10^{192}, \ u^{61} - u^{60} + \dots + 58u \\ I_2^u &= \langle 6183716894369 u^{21} + 1374457475661 u^{20} + \dots + 20376431428799 b - 1818725790068, \\ &23344139331015 u^{21} + 15115284063805 u^{20} + \dots + 40752862857598 a + 81671293633640, \\ &u^{22} + u^{20} + \dots + 7u^2 + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 83 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.
$$I_1^u = \langle -1.60 \times 10^{191} u^{60} + 3.06 \times 10^{190} u^{59} + \dots + 9.91 \times 10^{192} b - 1.82 \times 10^{193}, \ 1.46 \times 10^{192} u^{60} - 2.33 \times 10^{192} u^{59} + \dots + 1.98 \times 10^{193} a + 2.73 \times 10^{192}, \ u^{61} - u^{60} + \dots + 58 u + 25 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_3 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_{12} = \begin{pmatrix} -0.0735091u^{60} + 0.117737u^{59} + \cdots - 2.04132u - 0.137835 \\ 0.0161923u^{60} - 0.00309212u^{59} + \cdots + 4.89491u + 1.83612 \end{pmatrix} \\ a_{12} = \begin{pmatrix} 0.139781u^{60} - 0.129132u^{59} + \cdots + 15.7191u + 4.33924 \\ -0.00116829u^{60} + 0.0144033u^{59} + \cdots + 1.86244u + 0.197937 \end{pmatrix} \\ a_{2} = \begin{pmatrix} 0.0704268u^{60} - 0.0732087u^{59} + \cdots + 2.42540u + 0.360156 \\ 0.0813783u^{60} - 0.0764120u^{59} + \cdots + 16.8712u + 2.62104 \\ 0.0511130u^{60} - 0.0380784u^{59} + \cdots + 16.8712u + 2.62104 \\ 0.0511130u^{60} - 0.0386507u^{59} + \cdots + 110.0334u + 2.28547 \end{pmatrix} \\ a_{6} = \begin{pmatrix} 0.103262u^{60} - 0.0386507u^{59} + \cdots + 17.0502u + 9.16938 \\ -0.172371u^{60} + 0.154684u^{59} + \cdots - 24.1023u - 5.29676 \end{pmatrix} \\ a_{11} = \begin{pmatrix} 0.06897013u^{60} + 0.120829u^{59} + \cdots + 6.93623u - 1.97395 \\ 0.0161923u^{60} - 0.00309212u^{59} + \cdots + 4.89491u + 1.83612 \end{pmatrix} \\ a_{5} = \begin{pmatrix} 0.0660658u^{60} - 0.0890977u^{59} + \cdots + 6.16157u - 0.139445 \\ -0.0739833u^{60} + 0.0958469u^{59} + \cdots - 5.82769u + 1.54267 \end{pmatrix} \\ a_{9} = \begin{pmatrix} 0.0689463u^{60} + 0.140243u^{59} + \cdots - 1.52496u + 4.30676 \\ 0.0119356u^{60} - 0.0639002u^{59} + \cdots - 6.32232u - 5.61607 \end{pmatrix} \\ a_{10} = \begin{pmatrix} -0.0431325u^{60} + 0.0739412u^{59} + \cdots - 5.43574u + 0.473106 \\ 0.0113729u^{60} - 0.0535091u^{59} + \cdots - 5.43574u + 0.473106 \\ 0.0113729u^{60} - 0.0535091u^{59} + \cdots - 4.61936u - 4.60387 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.625154u^{60} 0.710423u^{59} + \dots + 55.0401u + 12.7589$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{61} + 80u^{60} + \dots + 86779u + 2401$
c_2, c_6	$u^{61} - 2u^{60} + \dots + 441u - 49$
c_3	$u^{61} + u^{60} + \dots + 58u - 25$
c_4, c_{11}	$u^{61} - 2u^{60} + \dots - 33u - 19$
c_5, c_8	$u^{61} - 2u^{60} + \dots + 261u - 29$
c_7	$u^{61} + 2u^{60} + \dots - 276u - 333$
<i>c</i> 9	$u^{61} - 2u^{60} + \dots + 96105u - 40873$
c_{10}	$u^{61} + 2u^{60} + \dots - 3730060u - 1063025$
c_{12}	$u^{61} + u^{60} + \dots + 24262u - 3637$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{61} - 188y^{60} + \dots - 978957329y - 5764801$
c_2, c_6	$y^{61} - 80y^{60} + \dots + 86779y - 2401$
c_3	$y^{61} + 9y^{60} + \dots - 4186y - 625$
c_4, c_{11}	$y^{61} + 42y^{60} + \dots + 367y - 361$
c_5, c_8	$y^{61} - 24y^{60} + \dots + 17197y - 841$
c_7	$y^{61} + 24y^{60} + \dots - 3453624y - 110889$
<i>C</i> 9	$y^{61} + 106y^{60} + \dots - 28850843549y - 1670602129$
c_{10}	$y^{61} + 50y^{60} + \dots + 4847404798650y - 1130022150625$
c_{12}	$y^{61} + 83y^{60} + \dots - 463357606y - 13227769$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.910345 + 0.431030I		
a = 0.083295 - 0.454008I	2.26261 - 0.47311I	6.00000 + 0.82328I
b = 0.591145 + 0.176936I		
u = -0.910345 - 0.431030I		
a = 0.083295 + 0.454008I	2.26261 + 0.47311I	6.00000 - 0.82328I
b = 0.591145 - 0.176936I		
u = -0.905896 + 0.155656I		
a = -0.855256 + 0.495486I	1.384080 - 0.049647I	8.60374 + 0.34198I
b = -0.471322 + 0.022876I		
u = -0.905896 - 0.155656I		
a = -0.855256 - 0.495486I	1.384080 + 0.049647I	8.60374 - 0.34198I
b = -0.471322 - 0.022876I		
u = 0.873224 + 0.669571I		
a = 0.981899 + 0.270500I	0.68598 + 5.02449I	6.00000 - 6.97083I
b = 0.849049 - 0.003724I		
u = 0.873224 - 0.669571I		
a = 0.981899 - 0.270500I	0.68598 - 5.02449I	6.00000 + 6.97083I
b = 0.849049 + 0.003724I		
u = 0.796281 + 0.378338I		
a = -1.116940 - 0.754299I	-2.21988 + 2.71821I	2.79760 - 2.35403I
b = -0.339467 - 1.155790I		
u = 0.796281 - 0.378338I		
a = -1.116940 + 0.754299I	-2.21988 - 2.71821I	2.79760 + 2.35403I
b = -0.339467 + 1.155790I		
u = -0.783728 + 0.810034I		
a = -1.086800 + 0.185128I	-8.29039 - 8.79817I	0. + 5.94350I
b = -1.269080 - 0.034183I		
u = -0.783728 - 0.810034I		
a = -1.086800 - 0.185128I	-8.29039 + 8.79817I	0 5.94350I
b = -1.269080 + 0.034183I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.100430 + 0.405618I		
a = 0.564804 - 0.867691I	-7.18810 + 2.78232I	0
b = 0.668724 - 0.343543I		
u = 1.100430 - 0.405618I		
a = 0.564804 + 0.867691I	-7.18810 - 2.78232I	0
b = 0.668724 + 0.343543I		
u = 0.902535 + 0.787150I		
a = 1.38806 + 0.58993I	-2.49063 + 3.37367I	0
b = 0.077875 + 1.023620I		
u = 0.902535 - 0.787150I		
a = 1.38806 - 0.58993I	-2.49063 - 3.37367I	0
b = 0.077875 - 1.023620I		
u = -0.143701 + 1.197970I		
a = -0.758684 - 0.050261I	-12.04860 + 3.96320I	0
b = -0.81574 - 1.26237I		
u = -0.143701 - 1.197970I		
a = -0.758684 + 0.050261I	-12.04860 - 3.96320I	0
b = -0.81574 + 1.26237I		
u = -0.737649 + 0.288030I		
a = -1.22841 + 1.53957I	1.16799 + 0.97942I	11.64968 - 5.59628I
b = 0.141796 + 0.826845I		
u = -0.737649 - 0.288030I		
a = -1.22841 - 1.53957I	1.16799 - 0.97942I	11.64968 + 5.59628I
b = 0.141796 - 0.826845I		
u = 0.409288 + 1.166070I		
a = -0.968903 + 0.296598I	-10.15910 + 2.60373I	0
b = -0.873837 - 0.531957I		
u = 0.409288 - 1.166070I		
a = -0.968903 - 0.296598I	-10.15910 - 2.60373I	0
b = -0.873837 + 0.531957I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.178219 + 1.234730I		
a = 0.704583 + 0.086186I	-4.94617 - 1.68496I	0
b = 0.489122 - 1.159650I		
u = -0.178219 - 1.234730I		
a = 0.704583 - 0.086186I	-4.94617 + 1.68496I	0
b = 0.489122 + 1.159650I		
u = 0.548172 + 0.498732I		
a = -0.827761 - 0.239428I	3.56437 + 0.65529I	6.54598 - 9.43946I
b = -1.175910 + 0.324455I		
u = 0.548172 - 0.498732I		
a = -0.827761 + 0.239428I	3.56437 - 0.65529I	6.54598 + 9.43946I
b = -1.175910 - 0.324455I		
u = -0.783796 + 0.998521I		
a = -1.48491 + 0.19075I	-15.6806 - 6.1080I	0
b = -0.301845 + 1.321410I		
u = -0.783796 - 0.998521I		
a = -1.48491 - 0.19075I	-15.6806 + 6.1080I	0
b = -0.301845 - 1.321410I		
u = -0.514875 + 0.492130I		
a = 1.59948 + 2.11483I	-9.26345 - 6.82861I	3.46166 + 7.84368I
b = 0.398091 - 1.052590I		
u = -0.514875 - 0.492130I		
a = 1.59948 - 2.11483I	-9.26345 + 6.82861I	3.46166 - 7.84368I
b = 0.398091 + 1.052590I		
u = 0.264074 + 0.645372I		
a = 1.328340 + 0.443782I	-3.08605 - 2.29569I	1.42347 + 3.66981I
b = -0.016093 + 1.164140I		
u = 0.264074 - 0.645372I		
a = 1.328340 - 0.443782I	-3.08605 + 2.29569I	1.42347 - 3.66981I
b = -0.016093 - 1.164140I		_

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.773573 + 1.049630I		
a = 1.183780 + 0.080595I	-4.00356 + 7.17574I	0
b = 0.573481 + 1.240910I		
u = 0.773573 - 1.049630I		
a = 1.183780 - 0.080595I	-4.00356 - 7.17574I	0
b = 0.573481 - 1.240910I		
u = -0.338814 + 1.265940I		
a = -0.521179 + 0.796599I	-9.74367 + 3.57994I	0
b = 0.139314 - 0.503690I		
u = -0.338814 - 1.265940I		
a = -0.521179 - 0.796599I	-9.74367 - 3.57994I	0
b = 0.139314 + 0.503690I		
u = -0.308314 + 0.613085I		
a = 1.345220 + 0.160561I	-1.34263 - 1.55470I	1.10269 + 5.91362I
b = 0.935401 + 0.570302I		
u = -0.308314 - 0.613085I		
a = 1.345220 - 0.160561I	-1.34263 + 1.55470I	1.10269 - 5.91362I
b = 0.935401 - 0.570302I		
u = -0.122393 + 0.642085I		
a = 1.260040 + 0.577361I	-1.49067 - 1.69118I	1.10870 + 3.00446I
b = 0.488074 + 0.349651I		
u = -0.122393 - 0.642085I		
a = 1.260040 - 0.577361I	-1.49067 + 1.69118I	1.10870 - 3.00446I
b = 0.488074 - 0.349651I		
u = -0.846285 + 1.110770I		
a = -0.848090 + 0.034436I	0.31756 - 6.96705I	0
b = -0.62079 + 1.29122I		
u = -0.846285 - 1.110770I		
a = -0.848090 - 0.034436I	0.31756 + 6.96705I	0
b = -0.62079 - 1.29122I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.203948 + 0.521772I		
a = -2.18101 - 1.13787I	1.01441 + 1.12155I	11.43554 + 3.06720I
b = 0.195182 + 0.839910I		
u = -0.203948 - 0.521772I		
a = -2.18101 + 1.13787I	1.01441 - 1.12155I	11.43554 - 3.06720I
b = 0.195182 - 0.839910I		
u = -0.075463 + 0.501572I		
a = -1.70075 + 0.64346I	-13.75710 + 1.91932I	-2.60893 - 4.18261I
b = -0.47776 + 1.67863I		
u = -0.075463 - 0.501572I		
a = -1.70075 - 0.64346I	-13.75710 - 1.91932I	-2.60893 + 4.18261I
b = -0.47776 - 1.67863I		
u = 1.20031 + 0.90858I		
a = -0.708252 - 0.230947I	-2.34363 + 3.20308I	0
b = -0.317542 - 1.245240I		
u = 1.20031 - 0.90858I		
a = -0.708252 + 0.230947I	-2.34363 - 3.20308I	0
b = -0.317542 + 1.245240I		
u = -0.441996		
a = -1.57855	0.849580	12.6400
b = -0.366410		
u = 0.360834 + 0.209871I		
a = -2.67749 + 1.83256I	-0.79546 + 2.56100I	5.10158 - 6.10959I
b = -0.229649 - 0.967482I		
u = 0.360834 - 0.209871I		
a = -2.67749 - 1.83256I	-0.79546 - 2.56100I	5.10158 + 6.10959I
b = -0.229649 + 0.967482I		
u = -1.62571 + 0.49135I		
a = -0.031980 + 0.495894I	-13.41560 - 0.23117I	0
b = 0.09176 + 1.50621I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.62571 - 0.49135I		
a = -0.031980 - 0.495894I	-13.41560 + 0.23117I	0
b = 0.09176 - 1.50621I		
u = 1.10477 + 1.32184I		
a = -0.921810 - 0.135912I	-12.6177 + 15.2705I	0
b = -0.59623 - 1.40084I		
u = 1.10477 - 1.32184I		
a = -0.921810 + 0.135912I	-12.6177 - 15.2705I	0
b = -0.59623 + 1.40084I		
u = -1.21132 + 1.26115I		
a = 0.809022 - 0.138932I	-3.42883 - 9.78730I	0
b = 0.447860 - 1.318690I		
u = -1.21132 - 1.26115I		
a = 0.809022 + 0.138932I	-3.42883 + 9.78730I	0
b = 0.447860 + 1.318690I		
u = 1.23693 + 1.30689I		
a = 0.413103 + 0.160610I	-1.82315 + 4.26546I	0
b = 0.357957 + 1.350540I		
u = 1.23693 - 1.30689I		
a = 0.413103 - 0.160610I	-1.82315 - 4.26546I	0
b = 0.357957 - 1.350540I		
u = -0.77616 + 1.81286I		
a = 0.418912 - 0.019439I	-4.52908 - 0.45066I	0
b = 0.057249 - 1.068760I		
u = -0.77616 - 1.81286I		
a = 0.418912 + 0.019439I	-4.52908 + 0.45066I	0
b = 0.057249 + 1.068760I		
u = 1.61718 + 1.51372I		
a = -0.213047 - 0.314323I	-11.73450 - 5.28579I	0
b = 0.186383 - 1.117350I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.61718 - 1.51372I		
a = -0.213047 + 0.314323I	-11.73450 + 5.28579I	0
b = 0.186383 + 1.117350I		

TT.

 $\begin{array}{l} I_2^u = \langle 6.18 \times 10^{12} u^{21} + 1.37 \times 10^{12} u^{20} + \dots + 2.04 \times 10^{13} b - 1.82 \times 10^{12}, \ 2.33 \times 10^{13} u^{21} + 1.51 \times 10^{13} u^{20} + \dots + 4.08 \times 10^{13} a + 8.17 \times 10^{13}, \ u^{22} + u^{20} + \dots + 7u^2 + 1 \rangle \end{array}$

(i) Arc colorings

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

$$a_{8} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{12} = \begin{pmatrix} -0.572822u^{21} - 0.370901u^{20} + \dots - 6.42292u - 2.00406 \\ -0.303474u^{21} - 0.0674533u^{20} + \dots - 2.11438u + 0.0892563 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.490404u^{21} + 0.544286u^{20} + \dots + 1.63604u + 3.54751 \\ 0.450223u^{21} + 0.166556u^{20} + \dots + 1.84761u + 0.395045 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.127478u^{21} - 0.0969833u^{20} + \dots - 2.82648u - 1.83138 \\ -0.272013u^{21} - 0.162826u^{20} + \dots - 3.02486u - 0.530692 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.160976u^{21} - 0.342532u^{20} + \dots - 5.72386u - 2.45906 \\ -0.0738264u^{21} - 0.215757u^{20} + \dots - 2.73641u - 0.285144 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.902443u^{21} + 0.369937u^{20} + \dots - 3.12076u + 1.80659 \\ -0.508034u^{21} + 0.236676u^{20} + \dots - 2.08651u - 0.447991 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.269348u^{21} - 0.303448u^{20} + \dots - 4.30854u - 2.09332 \\ -0.303474u^{21} - 0.0674533u^{20} + \dots - 2.11438u + 0.0892563 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.224994u^{21} + 0.335014u^{20} + \dots - 1.53934u + 1.95806 \\ -0.620039u^{21} + 0.115209u^{20} + \dots - 2.49559u - 0.110441 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.0843674u^{21} + 0.135737u^{20} + \dots - 1.44434u + 0.954289 \\ 0.0771103u^{21} + 0.230053u^{20} + \dots + 0.290077u + 0.454193 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.798104u^{21} + 0.208278u^{20} + \dots - 1.99794u + 1.54422 \\ -0.0334405u^{21} + 0.446821u^{20} + \dots + 0.244507u + 0.381653 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes $= \frac{40525880426923}{40752862857598}u^{21} + \frac{9112819862999}{40752862857598}u^{20} + \dots - \frac{281490623171531}{40752862857598}u + \frac{94744620113174}{20376431428799}u^{20} + \dots - \frac{281490623171531}{40752862857598}u + \frac{94744620113174}{20376431428799}u^{20} + \dots - \frac{281490623171531}{40752862857598}u + \frac{94744620113174}{20376431428799}u^{20} + \dots - \frac{281490623171531}{40752862857598}u^{20} + \frac{94744620113174}{20376431428799}u^{20} + \dots - \frac{281490623171531}{40752862857598}u^{20} + \frac{94744620113174}{20376431428799}u^{20} + \dots - \frac{94744640113174}{20376431428799}u^{20} + \dots - \frac{94744640113174}{20376431428799}u^$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{22} - 23u^{21} + \dots - 11u + 1$
c_2	$u^{22} - u^{21} + \dots + u + 1$
c_3	$u^{22} + u^{20} + \dots + 7u^2 + 1$
c_4	$u^{22} + u^{21} + \dots + u + 7$
<i>C</i> ₅	$u^{22} - u^{21} + \dots - 3u + 5$
c_6	$u^{22} + u^{21} + \dots - u + 1$
c_7	$u^{22} + u^{21} + \dots - 4u + 1$
<i>C</i> ₈	$u^{22} + u^{21} + \dots + 3u + 5$
<i>C</i> 9	$u^{22} - u^{21} + \dots + u + 1$
c_{10}	$u^{22} + u^{21} + \dots - 10u + 1$
c_{11}	$u^{22} - u^{21} + \dots - u + 7$
c_{12}	$u^{22} + 6u^{20} + \dots - 5u^2 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{22} - 39y^{21} + \dots - 3y + 1$
c_2, c_6	$y^{22} - 23y^{21} + \dots - 11y + 1$
c_3	$y^{22} + 2y^{21} + \dots + 14y + 1$
c_4, c_{11}	$y^{22} + 15y^{21} + \dots + 377y + 49$
c_5, c_8	$y^{22} - 19y^{21} + \dots - 289y + 25$
c_7	$y^{22} + 9y^{21} + \dots - 4y + 1$
<i>c</i> 9	$y^{22} + 15y^{21} + \dots + 21y + 1$
c ₁₀	$y^{22} + 15y^{21} + \dots + 38y + 1$
c_{12}	$y^{22} + 12y^{21} + \dots - 10y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.749223 + 0.536697I		
a = -1.93401 - 0.91661I	-1.82723 + 4.27576I	7.30430 - 9.72989I
b = -0.274538 - 0.968002I		
u = 0.749223 - 0.536697I		
a = -1.93401 + 0.91661I	-1.82723 - 4.27576I	7.30430 + 9.72989I
b = -0.274538 + 0.968002I		
u = -1.044190 + 0.356102I		
a = -0.001977 - 0.673618I	-12.82310 + 1.58068I	4.83519 - 2.88611I
b = 0.26050 - 1.56100I		
u = -1.044190 - 0.356102I		
a = -0.001977 + 0.673618I	-12.82310 - 1.58068I	4.83519 + 2.88611I
b = 0.26050 + 1.56100I		
u = 0.724340 + 0.845777I		
a = -0.821898 - 0.205533I	1.66671 + 2.20771I	4.34569 - 3.65314I
b = -0.988487 + 0.528451I		
u = 0.724340 - 0.845777I		
a = -0.821898 + 0.205533I	1.66671 - 2.20771I	4.34569 + 3.65314I
b = -0.988487 - 0.528451I		
u = -1.046380 + 0.423272I		
a = -0.356014 + 1.178150I	0.651107 + 0.405045I	1.85611 + 1.13547I
b = 0.173677 + 0.903500I		
u = -1.046380 - 0.423272I		
a = -0.356014 - 1.178150I	0.651107 - 0.405045I	1.85611 - 1.13547I
b = 0.173677 - 0.903500I		
u = 0.558979 + 1.026050I		
a = -0.045467 + 0.826842I	-9.94231 - 5.09085I	2.90449 + 4.36039I
b = 0.431345 - 0.856577I		
u = 0.558979 - 1.026050I		
a = -0.045467 - 0.826842I	-9.94231 + 5.09085I	2.90449 - 4.36039I
b = 0.431345 + 0.856577I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.791899 + 0.115857I		
a = 0.458376 - 0.091009I	3.54705 - 0.01004I	10.61413 - 1.28755I
b = 0.915727 + 0.059496I		
u = -0.791899 - 0.115857I		
a = 0.458376 + 0.091009I	3.54705 + 0.01004I	10.61413 + 1.28755I
b = 0.915727 - 0.059496I		
u = 0.231354 + 0.517578I		
a = -0.34516 - 2.70664I	0.70306 + 1.50488I	1.38672 - 8.70491I
b = 0.205725 + 0.843817I		
u = 0.231354 - 0.517578I		
a = -0.34516 + 2.70664I	0.70306 - 1.50488I	1.38672 + 8.70491I
b = 0.205725 - 0.843817I		
u = 1.20809 + 0.84251I		
a = 0.628241 + 0.196989I	-0.85413 + 4.66448I	7.24755 - 5.70143I
b = 0.41864 + 1.39129I		
u = 1.20809 - 0.84251I		
a = 0.628241 - 0.196989I	-0.85413 - 4.66448I	7.24755 + 5.70143I
b = 0.41864 - 1.39129I		
u = -0.001953 + 0.372411I		
a = -1.81291 - 1.77055I	-0.954258 - 0.910761I	7.17839 - 3.05875I
b = -0.710684 - 0.658976I		
u = -0.001953 - 0.372411I		
a = -1.81291 + 1.77055I	-0.954258 + 0.910761I	7.17839 + 3.05875I
b = -0.710684 + 0.658976I		
u = -0.96547 + 1.31719I		
a = -0.814621 + 0.048696I	-0.76029 - 8.11167I	3.91676 + 7.17455I
b = -0.615052 + 1.219520I		
u = -0.96547 - 1.31719I		
a = -0.814621 - 0.048696I	-0.76029 + 8.11167I	3.91676 - 7.17455I
b = -0.615052 - 1.219520I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.37791 + 1.60370I		
a = -0.454559 + 0.086376I	-4.08064 + 1.37556I	5.91066 - 3.80739I
b = -0.316854 - 1.049130I		
u = 0.37791 - 1.60370I		
a = -0.454559 - 0.086376I	-4.08064 - 1.37556I	5.91066 + 3.80739I
b = -0.316854 + 1.049130I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{22} - 23u^{21} + \dots - 11u + 1)(u^{61} + 80u^{60} + \dots + 86779u + 2401) $
c_2	$(u^{22} - u^{21} + \dots + u + 1)(u^{61} - 2u^{60} + \dots + 441u - 49)$
c_3	$(u^{22} + u^{20} + \dots + 7u^2 + 1)(u^{61} + u^{60} + \dots + 58u - 25)$
c_4	$(u^{22} + u^{21} + \dots + u + 7)(u^{61} - 2u^{60} + \dots - 33u - 19)$
c_5	$(u^{22} - u^{21} + \dots - 3u + 5)(u^{61} - 2u^{60} + \dots + 261u - 29)$
c_6	$ (u^{22} + u^{21} + \dots - u + 1)(u^{61} - 2u^{60} + \dots + 441u - 49) $
c_7	$ (u^{22} + u^{21} + \dots - 4u + 1)(u^{61} + 2u^{60} + \dots - 276u - 333) $
c_8	$(u^{22} + u^{21} + \dots + 3u + 5)(u^{61} - 2u^{60} + \dots + 261u - 29)$
c_9	$(u^{22} - u^{21} + \dots + u + 1)(u^{61} - 2u^{60} + \dots + 96105u - 40873)$
c_{10}	$(u^{22} + u^{21} + \dots - 10u + 1)(u^{61} + 2u^{60} + \dots - 3730060u - 1063025)$
c_{11}	$(u^{22} - u^{21} + \dots - u + 7)(u^{61} - 2u^{60} + \dots - 33u - 19)$
c_{12}	$(u^{22} + 6u^{20} + \dots - 5u^2 + 1)(u^{61} + u^{60} + \dots + 24262u - 3637)$ 20

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{22} - 39y^{21} + \dots - 3y + 1)$ $\cdot (y^{61} - 188y^{60} + \dots - 978957329y - 5764801)$
c_2, c_6	$(y^{22} - 23y^{21} + \dots - 11y + 1)(y^{61} - 80y^{60} + \dots + 86779y - 2401)$
c_3	$(y^{22} + 2y^{21} + \dots + 14y + 1)(y^{61} + 9y^{60} + \dots - 4186y - 625)$
c_4, c_{11}	$(y^{22} + 15y^{21} + \dots + 377y + 49)(y^{61} + 42y^{60} + \dots + 367y - 361)$
c_5, c_8	$(y^{22} - 19y^{21} + \dots - 289y + 25)(y^{61} - 24y^{60} + \dots + 17197y - 841)$
C ₇	$(y^{22} + 9y^{21} + \dots - 4y + 1)(y^{61} + 24y^{60} + \dots - 3453624y - 110889)$
<i>C</i> 9	$(y^{22} + 15y^{21} + \dots + 21y + 1)$ $\cdot (y^{61} + 106y^{60} + \dots - 28850843549y - 1670602129)$
c_{10}	$(y^{22} + 15y^{21} + \dots + 38y + 1)$ $\cdot (y^{61} + 50y^{60} + \dots + 4847404798650y - 1130022150625)$
c_{12}	$(y^{22} + 12y^{21} + \dots - 10y + 1)$ $\cdot (y^{61} + 83y^{60} + \dots - 463357606y - 13227769)$