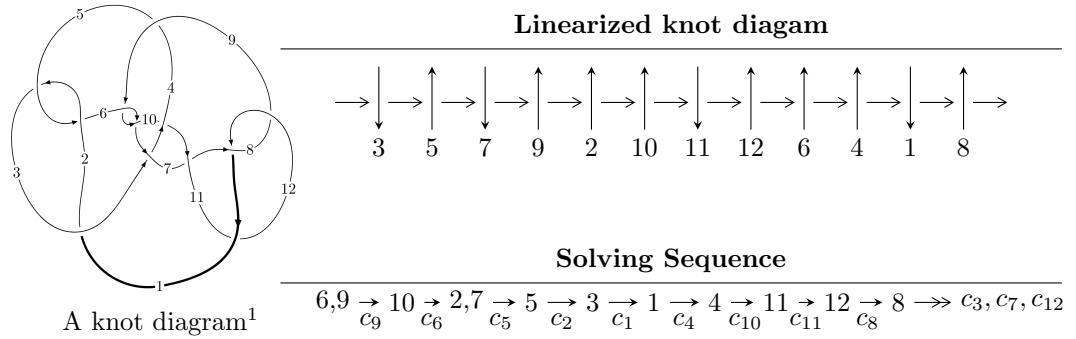


$12a_{0069}$ ($K12a_{0069}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 7.65770 \times 10^{416} u^{118} - 1.62086 \times 10^{417} u^{117} + \dots + 7.02397 \times 10^{415} b - 9.50919 \times 10^{416}, \\ - 7.94572 \times 10^{415} u^{118} + 1.92807 \times 10^{416} u^{117} + \dots + 7.02397 \times 10^{415} a + 1.46155 \times 10^{416}, \\ u^{119} - u^{118} + \dots - 10u^3 - 1 \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 119 representations.

¹The image of knot diagram is generated by the software “**Draw programme**” developed by Andrew Bartholomew(<http://www.layer8.co.uk/math/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.

$$\text{I. } I_1^u = \langle 7.66 \times 10^{416} u^{118} - 1.62 \times 10^{417} u^{117} + \dots + 7.02 \times 10^{415} b - 9.51 \times 10^{416}, -7.95 \times 10^{415} u^{118} + 1.93 \times 10^{416} u^{117} + \dots + 7.02 \times 10^{415} a + 1.46 \times 10^{416}, u^{119} - u^{118} + \dots - 10u^3 - 1 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_6 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_9 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1.13123u^{118} - 2.74499u^{117} + \dots - 0.679206u - 2.08080 \\ -10.9022u^{118} + 23.0761u^{117} + \dots - 11.1828u + 13.5382 \end{pmatrix} \\ a_7 &= \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_5 &= \begin{pmatrix} 0.947849u^{118} - 3.85311u^{117} + \dots - 3.86697u - 3.09518 \\ -14.8208u^{118} + 24.3819u^{117} + \dots - 16.3486u + 11.6263 \end{pmatrix} \\ a_3 &= \begin{pmatrix} 0.869184u^{118} - 4.24063u^{117} + \dots - 4.92860u - 3.11758 \\ -15.6125u^{118} + 27.9535u^{117} + \dots - 18.8594u + 14.1353 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -0.700733u^{118} - 0.837427u^{117} + \dots + 2.27817u - 0.562810 \\ 0.130477u^{118} + 1.80102u^{117} + \dots - 2.77571u + 1.78291 \end{pmatrix} \\ a_4 &= \begin{pmatrix} 15.7687u^{118} - 28.2350u^{117} + \dots + 12.4817u - 14.7215 \\ -14.8208u^{118} + 24.3819u^{117} + \dots - 16.3486u + 11.6263 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} 0.244750u^{118} - 1.71369u^{117} + \dots - 1.10194u - 3.47644 \\ -1.42573u^{118} + 1.50735u^{117} + \dots - 0.807561u + 0.768205 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} 0.683348u^{118} - 1.40205u^{117} + \dots - 0.666971u - 2.50037 \\ 2.26430u^{118} - 3.52278u^{117} + \dots + 2.98299u - 1.11611 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -3.44836u^{118} + 3.50134u^{117} + \dots - 5.29495u + 0.898973 \\ 3.52208u^{118} - 3.23364u^{117} + \dots + 4.70691u - 0.312411 \end{pmatrix} \end{aligned}$$

(ii) **Obstruction class = -1**

(iii) **Cusp Shapes** = $-91.5861u^{118} + 200.489u^{117} + \dots - 97.6537u + 125.725$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{119} + 47u^{118} + \cdots + 76u - 1$
c_2, c_5	$u^{119} + u^{118} + \cdots + 4u - 1$
c_3	$u^{119} - 11u^{118} + \cdots - 44u - 41$
c_4	$u^{119} + 17u^{118} + \cdots - 9590288u - 2011573$
c_6, c_9	$u^{119} - u^{118} + \cdots - 10u^3 - 1$
c_7	$u^{119} + 5u^{118} + \cdots - 2541506u - 300233$
c_8, c_{12}	$u^{119} - 5u^{118} + \cdots + 2u - 1$
c_{10}	$u^{119} - 3u^{118} + \cdots - 4u + 1$
c_{11}	$u^{119} + 59u^{118} + \cdots - 10u^2 - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{119} + 51y^{118} + \cdots + 3612y - 1$
c_2, c_5	$y^{119} + 47y^{118} + \cdots + 76y - 1$
c_3	$y^{119} - 29y^{118} + \cdots - 1094568y - 1681$
c_4	$y^{119} - 97y^{118} + \cdots + 36045891989112y - 4046425934329$
c_6, c_9	$y^{119} - 85y^{118} + \cdots + 10y^2 - 1$
c_7	$y^{119} - 53y^{118} + \cdots - 333755460568y - 90139854289$
c_8, c_{12}	$y^{119} + 59y^{118} + \cdots - 10y^2 - 1$
c_{10}	$y^{119} - 5y^{118} + \cdots + 36y - 1$
c_{11}	$y^{119} + 3y^{118} + \cdots - 20y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.035610 + 0.034259I$		
$a = 0.442668 + 0.851761I$	$-0.86467 - 1.64898I$	0
$b = -3.97968 + 9.10996I$		
$u = -1.035610 - 0.034259I$		
$a = 0.442668 - 0.851761I$	$-0.86467 + 1.64898I$	0
$b = -3.97968 - 9.10996I$		
$u = -0.153531 + 0.943119I$		
$a = 0.329336 - 0.874707I$	$-2.01394 - 8.29603I$	0
$b = 0.612984 - 0.109115I$		
$u = -0.153531 - 0.943119I$		
$a = 0.329336 + 0.874707I$	$-2.01394 + 8.29603I$	0
$b = 0.612984 + 0.109115I$		
$u = 0.195630 + 0.932978I$		
$a = -0.333343 - 0.813020I$	$0.44663 + 3.21872I$	0
$b = -0.621938 + 0.026733I$		
$u = 0.195630 - 0.932978I$		
$a = -0.333343 + 0.813020I$	$0.44663 - 3.21872I$	0
$b = -0.621938 - 0.026733I$		
$u = 1.052800 + 0.041861I$		
$a = -0.530406 - 0.799447I$	$1.78369 + 2.11474I$	0
$b = -5.59734 - 1.83768I$		
$u = 1.052800 - 0.041861I$		
$a = -0.530406 + 0.799447I$	$1.78369 - 2.11474I$	0
$b = -5.59734 + 1.83768I$		
$u = -0.931249 + 0.000665I$		
$a = 0.536962 - 0.910284I$	$-0.80226 - 5.64486I$	0
$b = -4.83863 + 6.77336I$		
$u = -0.931249 - 0.000665I$		
$a = 0.536962 + 0.910284I$	$-0.80226 + 5.64486I$	0
$b = -4.83863 - 6.77336I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.060990 + 0.301097I$		
$a = 0.546458 - 0.953653I$	$0.30758 - 5.30584I$	0
$b = 1.06405 + 1.45475I$		
$u = -1.060990 - 0.301097I$		
$a = 0.546458 + 0.953653I$	$0.30758 + 5.30584I$	0
$b = 1.06405 - 1.45475I$		
$u = 0.267796 + 0.851309I$		
$a = 1.278180 + 0.154070I$	$-8.34950 + 2.40655I$	0
$b = 1.75621 + 0.23838I$		
$u = 0.267796 - 0.851309I$		
$a = 1.278180 - 0.154070I$	$-8.34950 - 2.40655I$	0
$b = 1.75621 - 0.23838I$		
$u = -0.074330 + 1.125290I$		
$a = -0.997873 - 0.486870I$	$-3.88873 - 13.56350I$	0
$b = -1.79400 + 0.03937I$		
$u = -0.074330 - 1.125290I$		
$a = -0.997873 + 0.486870I$	$-3.88873 + 13.56350I$	0
$b = -1.79400 - 0.03937I$		
$u = 1.13014$		
$a = -0.111440$	1.93584	0
$b = 0.759054$		
$u = -1.121190 + 0.188539I$		
$a = -0.145641 - 0.105682I$	$-1.05597 - 3.63117I$	0
$b = -0.989741 - 0.222670I$		
$u = -1.121190 - 0.188539I$		
$a = -0.145641 + 0.105682I$	$-1.05597 + 3.63117I$	0
$b = -0.989741 + 0.222670I$		
$u = -0.132272 + 0.843702I$		
$a = 0.195416 - 0.810399I$	$-4.11006 - 0.27210I$	0
$b = 0.328272 - 0.000696I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.132272 - 0.843702I$		
$a = 0.195416 + 0.810399I$	$-4.11006 + 0.27210I$	0
$b = 0.328272 + 0.000696I$		
$u = -0.147996 + 1.139970I$		
$a = -0.981418 - 0.346599I$	$-6.26033 - 4.80404I$	0
$b = -1.82266 + 0.10584I$		
$u = -0.147996 - 1.139970I$		
$a = -0.981418 + 0.346599I$	$-6.26033 + 4.80404I$	0
$b = -1.82266 - 0.10584I$		
$u = 0.081715 + 1.152440I$		
$a = 0.948415 - 0.459935I$	$-1.22644 + 8.24609I$	0
$b = 1.77493 + 0.07000I$		
$u = 0.081715 - 1.152440I$		
$a = 0.948415 + 0.459935I$	$-1.22644 - 8.24609I$	0
$b = 1.77493 - 0.07000I$		
$u = 1.158970 + 0.018063I$		
$a = -0.479317 - 0.521293I$	$2.16234 + 1.39239I$	0
$b = -0.258759 - 1.112910I$		
$u = 1.158970 - 0.018063I$		
$a = -0.479317 + 0.521293I$	$2.16234 - 1.39239I$	0
$b = -0.258759 + 1.112910I$		
$u = 1.143840 + 0.215265I$		
$a = -0.705485 - 0.961559I$	$-0.39199 + 2.55993I$	0
$b = -1.26062 + 1.12141I$		
$u = 1.143840 - 0.215265I$		
$a = -0.705485 + 0.961559I$	$-0.39199 - 2.55993I$	0
$b = -1.26062 - 1.12141I$		
$u = 0.801969 + 0.209169I$		
$a = -0.607950 - 0.823356I$	$1.10471 + 1.87596I$	0
$b = 0.16247 + 2.03835I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.801969 - 0.209169I$		
$a = -0.607950 + 0.823356I$	$1.10471 - 1.87596I$	0
$b = 0.16247 - 2.03835I$		
$u = -0.281744 + 0.773549I$		
$a = -1.307150 + 0.320885I$	$-4.34747 + 1.40844I$	0
$b = -1.66811 + 0.26788I$		
$u = -0.281744 - 0.773549I$		
$a = -1.307150 - 0.320885I$	$-4.34747 - 1.40844I$	0
$b = -1.66811 - 0.26788I$		
$u = -1.172220 + 0.136967I$		
$a = 0.807474 - 0.803851I$	$3.94124 - 4.31721I$	0
$b = 1.175190 + 0.567020I$		
$u = -1.172220 - 0.136967I$		
$a = 0.807474 + 0.803851I$	$3.94124 + 4.31721I$	0
$b = 1.175190 - 0.567020I$		
$u = -1.167230 + 0.178565I$		
$a = 0.781709 - 0.909729I$	$3.04776 - 5.27945I$	0
$b = 1.20647 + 0.89400I$		
$u = -1.167230 - 0.178565I$		
$a = 0.781709 + 0.909729I$	$3.04776 + 5.27945I$	0
$b = 1.20647 - 0.89400I$		
$u = -1.112690 + 0.397752I$		
$a = 0.429494 - 1.022980I$	$-1.79609 - 5.72361I$	0
$b = 0.94831 + 1.23748I$		
$u = -1.112690 - 0.397752I$		
$a = 0.429494 + 1.022980I$	$-1.79609 + 5.72361I$	0
$b = 0.94831 - 1.23748I$		
$u = -0.976273 + 0.682780I$		
$a = 0.287128 - 0.765903I$	$-3.68701 - 1.75662I$	0
$b = 0.620309 + 1.052770I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.976273 - 0.682780I$		
$a = 0.287128 + 0.765903I$	$-3.68701 + 1.75662I$	0
$b = 0.620309 - 1.052770I$		
$u = 1.178780 + 0.192982I$		
$a = -0.796177 - 0.953278I$	$0.72920 + 9.76423I$	0
$b = -1.13146 + 0.97080I$		
$u = 1.178780 - 0.192982I$		
$a = -0.796177 + 0.953278I$	$0.72920 - 9.76423I$	0
$b = -1.13146 - 0.97080I$		
$u = 0.227268 + 0.769683I$		
$a = 1.43240 + 0.29302I$	$-7.32116 - 6.11305I$	0
$b = 1.69375 + 0.33844I$		
$u = 0.227268 - 0.769683I$		
$a = 1.43240 - 0.29302I$	$-7.32116 + 6.11305I$	0
$b = 1.69375 - 0.33844I$		
$u = 1.192600 + 0.108357I$		
$a = -0.864274 - 0.703004I$	$2.62468 + 0.41803I$	0
$b = -0.913943 + 0.343127I$		
$u = 1.192600 - 0.108357I$		
$a = -0.864274 + 0.703004I$	$2.62468 - 0.41803I$	0
$b = -0.913943 - 0.343127I$		
$u = 1.117730 + 0.438448I$		
$a = -0.371372 - 1.011530I$	$-5.72733 + 2.25424I$	0
$b = -0.90305 + 1.17790I$		
$u = 1.117730 - 0.438448I$		
$a = -0.371372 + 1.011530I$	$-5.72733 - 2.25424I$	0
$b = -0.90305 - 1.17790I$		
$u = 1.137120 + 0.397553I$		
$a = -0.421645 - 1.060100I$	$-4.54003 + 10.40590I$	0
$b = -0.97948 + 1.20682I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.137120 - 0.397553I$		
$a = -0.421645 + 1.060100I$	$-4.54003 - 10.40590I$	0
$b = -0.97948 - 1.20682I$		
$u = -1.211580 + 0.058016I$		
$a = 0.891343 - 0.447261I$	$5.32038 - 2.42918I$	0
$b = 0.461806 + 0.041016I$		
$u = -1.211580 - 0.058016I$		
$a = 0.891343 + 0.447261I$	$5.32038 + 2.42918I$	0
$b = 0.461806 - 0.041016I$		
$u = -1.216590 + 0.032056I$		
$a = 0.875980 - 0.267951I$	$5.57248 - 1.21411I$	0
$b = 0.254703 - 0.026118I$		
$u = -1.216590 - 0.032056I$		
$a = 0.875980 + 0.267951I$	$5.57248 + 1.21411I$	0
$b = 0.254703 + 0.026118I$		
$u = 1.217680 + 0.072944I$		
$a = -0.945939 - 0.521474I$	$3.35181 + 6.81145I$	0
$b = -0.520719 + 0.178092I$		
$u = 1.217680 - 0.072944I$		
$a = -0.945939 + 0.521474I$	$3.35181 - 6.81145I$	0
$b = -0.520719 - 0.178092I$		
$u = 1.225940 + 0.017958I$		
$a = -0.929497 - 0.146641I$	$3.90070 - 3.03494I$	0
$b = -0.173944 + 0.003829I$		
$u = 1.225940 - 0.017958I$		
$a = -0.929497 + 0.146641I$	$3.90070 + 3.03494I$	0
$b = -0.173944 - 0.003829I$		
$u = 0.331299 + 1.228400I$		
$a = -0.469326 - 0.596666I$	$2.25963 + 0.51321I$	0
$b = -1.180590 + 0.461415I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.331299 - 1.228400I$		
$a = -0.469326 + 0.596666I$	$2.25963 - 0.51321I$	0
$b = -1.180590 - 0.461415I$		
$u = -0.070400 + 1.338550I$		
$a = 0.640915 - 0.478369I$	$1.89300 + 5.19696I$	0
$b = 1.58846 + 0.31260I$		
$u = -0.070400 - 1.338550I$		
$a = 0.640915 + 0.478369I$	$1.89300 - 5.19696I$	0
$b = 1.58846 - 0.31260I$		
$u = -0.618966 + 0.213699I$		
$a = 0.289041 + 0.890207I$	$-0.81399 - 3.20969I$	$4.00000 + 3.78505I$
$b = -1.50194 - 0.12865I$		
$u = -0.618966 - 0.213699I$		
$a = 0.289041 - 0.890207I$	$-0.81399 + 3.20969I$	$4.00000 - 3.78505I$
$b = -1.50194 + 0.12865I$		
$u = 1.36081 + 0.41935I$		
$a = 0.504075 - 0.490516I$	$0.57021 + 4.89518I$	0
$b = 0.335719 - 0.339804I$		
$u = 1.36081 - 0.41935I$		
$a = 0.504075 + 0.490516I$	$0.57021 - 4.89518I$	0
$b = 0.335719 + 0.339804I$		
$u = -0.548066 + 0.171348I$		
$a = 0.622984 + 0.047785I$	$-0.74082 + 3.28237I$	$3.06985 - 2.32334I$
$b = -0.920128 + 0.468198I$		
$u = -0.548066 - 0.171348I$		
$a = 0.622984 - 0.047785I$	$-0.74082 - 3.28237I$	$3.06985 + 2.32334I$
$b = -0.920128 - 0.468198I$		
$u = 1.36388 + 0.43901I$		
$a = 0.543618 - 0.540469I$	$2.69460 + 13.23130I$	0
$b = 0.202526 - 0.389545I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.36388 - 0.43901I$		
$a = 0.543618 + 0.540469I$	$2.69460 - 13.23130I$	0
$b = 0.202526 + 0.389545I$		
$u = -1.36970 + 0.43404I$		
$a = -0.516877 - 0.541045I$	$5.26875 - 8.10776I$	0
$b = -0.218373 - 0.331413I$		
$u = -1.36970 - 0.43404I$		
$a = -0.516877 + 0.541045I$	$5.26875 + 8.10776I$	0
$b = -0.218373 + 0.331413I$		
$u = 0.493931 + 0.252338I$		
$a = -0.609440 - 0.306431I$	$1.054520 + 0.810570I$	$7.06407 - 4.23502I$
$b = 0.494472 + 0.702216I$		
$u = 0.493931 - 0.252338I$		
$a = -0.609440 + 0.306431I$	$1.054520 - 0.810570I$	$7.06407 + 4.23502I$
$b = 0.494472 - 0.702216I$		
$u = 0.534128 + 0.145589I$		
$a = -0.396428 + 1.301490I$	$1.040460 - 0.925928I$	$6.71411 + 2.60230I$
$b = 1.318260 - 0.418949I$		
$u = 0.534128 - 0.145589I$		
$a = -0.396428 - 1.301490I$	$1.040460 + 0.925928I$	$6.71411 - 2.60230I$
$b = 1.318260 + 0.418949I$		
$u = -1.40175 + 0.43210I$		
$a = -0.433268 - 0.579226I$	$7.65450 - 5.79278I$	0
$b = -0.187091 - 0.112631I$		
$u = -1.40175 - 0.43210I$		
$a = -0.433268 + 0.579226I$	$7.65450 + 5.79278I$	0
$b = -0.187091 + 0.112631I$		
$u = 1.38862 + 0.52166I$		
$a = 0.715613 + 0.556426I$	$0.6898 + 19.3458I$	0
$b = 2.22954 - 1.14573I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.38862 - 0.52166I$		
$a = 0.715613 - 0.556426I$	$0.6898 - 19.3458I$	0
$b = 2.22954 + 1.14573I$		
$u = -1.39430 + 0.52630I$		
$a = -0.705322 + 0.541088I$	$3.3933 - 14.1115I$	0
$b = -2.20450 - 1.12922I$		
$u = -1.39430 - 0.52630I$		
$a = -0.705322 - 0.541088I$	$3.3933 + 14.1115I$	0
$b = -2.20450 + 1.12922I$		
$u = 1.42662 + 0.43230I$		
$a = 0.380839 - 0.589100I$	$7.34633 + 0.64079I$	0
$b = 0.196843 + 0.029715I$		
$u = 1.42662 - 0.43230I$		
$a = 0.380839 + 0.589100I$	$7.34633 - 0.64079I$	0
$b = 0.196843 - 0.029715I$		
$u = -0.265452 + 0.428627I$		
$a = -1.32488 + 1.37649I$	$-1.83128 + 2.21574I$	$-1.91021 - 3.90777I$
$b = -1.153860 + 0.239152I$		
$u = -0.265452 - 0.428627I$		
$a = -1.32488 - 1.37649I$	$-1.83128 - 2.21574I$	$-1.91021 + 3.90777I$
$b = -1.153860 - 0.239152I$		
$u = 1.40600 + 0.51747I$		
$a = 0.673518 + 0.551712I$	$-1.44520 + 10.61230I$	0
$b = 2.21991 - 1.07852I$		
$u = 1.40600 - 0.51747I$		
$a = 0.673518 - 0.551712I$	$-1.44520 - 10.61230I$	0
$b = 2.21991 + 1.07852I$		
$u = -1.40565 + 0.55799I$		
$a = -0.688502 + 0.469329I$	$6.36962 - 11.59910I$	0
$b = -2.09567 - 1.09859I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.40565 - 0.55799I$		
$a = -0.688502 - 0.469329I$	$6.36962 + 11.59910I$	0
$b = -2.09567 + 1.09859I$		
$u = -1.24582 + 0.86613I$		
$a = -0.587834 + 0.208633I$	$0.68393 + 2.45853I$	0
$b = -1.88360 - 0.64005I$		
$u = -1.24582 - 0.86613I$		
$a = -0.587834 - 0.208633I$	$0.68393 - 2.45853I$	0
$b = -1.88360 + 0.64005I$		
$u = 1.41588 + 0.58047I$		
$a = 0.666124 + 0.431988I$	$6.35756 + 6.24409I$	0
$b = 2.04803 - 1.05914I$		
$u = 1.41588 - 0.58047I$		
$a = 0.666124 - 0.431988I$	$6.35756 - 6.24409I$	0
$b = 2.04803 + 1.05914I$		
$u = 0.020033 + 0.427434I$		
$a = 2.49913 + 1.14547I$	$-3.53579 - 0.04474I$	$-2.46644 - 0.41353I$
$b = 0.895052 + 0.739664I$		
$u = 0.020033 - 0.427434I$		
$a = 2.49913 - 1.14547I$	$-3.53579 + 0.04474I$	$-2.46644 + 0.41353I$
$b = 0.895052 - 0.739664I$		
$u = -0.373614 + 0.197542I$		
$a = 2.11982 - 0.74278I$	$-0.96055 - 5.90753I$	$-0.24664 + 9.37993I$
$b = -0.520379 + 1.023180I$		
$u = -0.373614 - 0.197542I$		
$a = 2.11982 + 0.74278I$	$-0.96055 + 5.90753I$	$-0.24664 - 9.37993I$
$b = -0.520379 - 1.023180I$		
$u = 0.407927 + 0.082101I$		
$a = -1.57057 - 1.37925I$	$1.04244 + 1.79312I$	$5.29922 - 6.16096I$
$b = 0.722910 + 0.807246I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.407927 - 0.082101I$		
$a = -1.57057 + 1.37925I$	$1.04244 - 1.79312I$	$5.29922 + 6.16096I$
$b = 0.722910 - 0.807246I$		
$u = -0.063587 + 0.405526I$		
$a = 2.82339 + 0.89838I$	$-2.78311 - 7.47461I$	$-1.05463 + 6.66610I$
$b = 0.703723 + 0.928875I$		
$u = -0.063587 - 0.405526I$		
$a = 2.82339 - 0.89838I$	$-2.78311 + 7.47461I$	$-1.05463 - 6.66610I$
$b = 0.703723 - 0.928875I$		
$u = -1.59847 + 0.13072I$		
$a = -0.228524 - 0.483802I$	$-1.19670 - 3.16016I$	0
$b = -1.103600 + 0.448792I$		
$u = -1.59847 - 0.13072I$		
$a = -0.228524 + 0.483802I$	$-1.19670 + 3.16016I$	0
$b = -1.103600 - 0.448792I$		
$u = 0.042672 + 0.353002I$		
$a = -3.04504 + 1.11704I$	$-0.32076 + 3.17904I$	$3.12260 - 2.64536I$
$b = -0.605859 + 0.777493I$		
$u = 0.042672 - 0.353002I$		
$a = -3.04504 - 1.11704I$	$-0.32076 - 3.17904I$	$3.12260 + 2.64536I$
$b = -0.605859 - 0.777493I$		
$u = -0.252617 + 0.244076I$		
$a = 3.02079 - 0.42092I$	$-1.30633 + 0.86062I$	$-2.81438 - 0.47339I$
$b = -0.129014 + 0.983795I$		
$u = -0.252617 - 0.244076I$		
$a = 3.02079 + 0.42092I$	$-1.30633 - 0.86062I$	$-2.81438 + 0.47339I$
$b = -0.129014 - 0.983795I$		
$u = -1.58209 + 0.54345I$		
$a = -0.490657 + 0.442532I$	$-2.07281 - 7.24639I$	0
$b = -2.05705 - 0.90475I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.58209 - 0.54345I$		
$a = -0.490657 - 0.442532I$	$-2.07281 + 7.24639I$	0
$b = -2.05705 + 0.90475I$		
$u = 1.48865 + 0.78475I$		
$a = 0.545170 + 0.294464I$	$3.14356 + 3.22083I$	0
$b = 2.02388 - 0.85427I$		
$u = 1.48865 - 0.78475I$		
$a = 0.545170 - 0.294464I$	$3.14356 - 3.22083I$	0
$b = 2.02388 + 0.85427I$		
$u = -1.56146 + 0.69154I$		
$a = -0.089957 - 0.621770I$	$0.23657 + 6.97702I$	0
$b = 0.092627 + 0.952473I$		
$u = -1.56146 - 0.69154I$		
$a = -0.089957 + 0.621770I$	$0.23657 - 6.97702I$	0
$b = 0.092627 - 0.952473I$		
$u = 0.132835 + 0.246557I$		
$a = -3.88097 + 0.27662I$	$0.41339 + 2.76637I$	$0.999591 - 0.880383I$
$b = -0.175037 + 0.757890I$		
$u = 0.132835 - 0.246557I$		
$a = -3.88097 - 0.27662I$	$0.41339 - 2.76637I$	$0.999591 + 0.880383I$
$b = -0.175037 - 0.757890I$		
$u = 1.66926 + 0.48655I$		
$a = 0.182810 - 0.545721I$	$3.28885 - 1.37430I$	0
$b = 0.379844 + 0.808584I$		
$u = 1.66926 - 0.48655I$		
$a = 0.182810 + 0.545721I$	$3.28885 + 1.37430I$	0
$b = 0.379844 - 0.808584I$		

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$u^{119} + 47u^{118} + \cdots + 76u - 1$
c_2, c_5	$u^{119} + u^{118} + \cdots + 4u - 1$
c_3	$u^{119} - 11u^{118} + \cdots - 44u - 41$
c_4	$u^{119} + 17u^{118} + \cdots - 9590288u - 2011573$
c_6, c_9	$u^{119} - u^{118} + \cdots - 10u^3 - 1$
c_7	$u^{119} + 5u^{118} + \cdots - 2541506u - 300233$
c_8, c_{12}	$u^{119} - 5u^{118} + \cdots + 2u - 1$
c_{10}	$u^{119} - 3u^{118} + \cdots - 4u + 1$
c_{11}	$u^{119} + 59u^{118} + \cdots - 10u^2 - 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y^{119} + 51y^{118} + \cdots + 3612y - 1$
c_2, c_5	$y^{119} + 47y^{118} + \cdots + 76y - 1$
c_3	$y^{119} - 29y^{118} + \cdots - 1094568y - 1681$
c_4	$y^{119} - 97y^{118} + \cdots + 36045891989112y - 4046425934329$
c_6, c_9	$y^{119} - 85y^{118} + \cdots + 10y^2 - 1$
c_7	$y^{119} - 53y^{118} + \cdots - 333755460568y - 90139854289$
c_8, c_{12}	$y^{119} + 59y^{118} + \cdots - 10y^2 - 1$
c_{10}	$y^{119} - 5y^{118} + \cdots + 36y - 1$
c_{11}	$y^{119} + 3y^{118} + \cdots - 20y - 1$