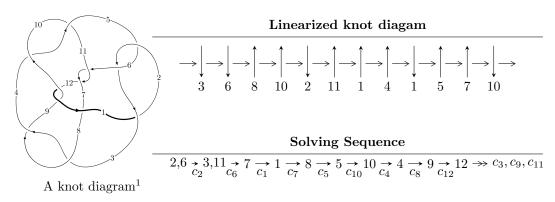
$12n_{0378} \ (K12n_{0378})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 2.40269 \times 10^{62} u^{72} - 1.72408 \times 10^{63} u^{71} + \dots + 1.82435 \times 10^{64} b - 1.38356 \times 10^{64},$$

$$2.34275 \times 10^{62} u^{72} + 1.14118 \times 10^{62} u^{71} + \dots + 4.44964 \times 10^{62} a + 4.68732 \times 10^{63}, \ u^{73} - u^{72} + \dots + 6u - 1 \rangle$$

$$I_2^u = \langle u^{19} - u^{18} + \dots + b - 2, \ u^{19} + u^{18} + \dots + a - 6, \ u^{20} - 4u^{18} + \dots - u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 93 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.

$$\begin{matrix} \text{I.} \\ I_1^u = \langle 2.40 \times 10^{62} u^{72} - 1.72 \times 10^{63} u^{71} + \dots + 1.82 \times 10^{64} b - 1.38 \times 10^{64}, \ 2.34 \times 10^{62} u^{72} + 1.14 \times 10^{62} u^{71} + \dots + 4.45 \times 10^{62} a + 4.69 \times 10^{63}, \ u^{73} - u^{72} + \dots + 6u - 1 \rangle \end{matrix}$$

(i) Arc colorings

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

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

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

$$a_{11} = \begin{pmatrix} -0.526502u^{72} - 0.256466u^{71} + \dots + 31.1936u - 10.5341 \\ -0.0131701u^{72} + 0.0945035u^{71} + \dots - 9.10210u + 0.758385 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.429075u^{72} - 0.253130u^{71} + \dots + 5.78589u - 1.70210 \\ 0.0237826u^{72} + 0.0747905u^{71} + \dots - 4.64228u + 2.61862 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} 0.354692u^{72} - 0.179230u^{71} + \dots + 1.83197u + 0.794479 \\ -0.134146u^{72} + 0.126424u^{71} + \dots - 4.09974u + 2.52946 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -0.273639u^{72} - 0.495448u^{71} + \dots + 35.8660u - 11.3984 \\ 0.239693u^{72} - 0.144479u^{71} + \dots - 4.42963u - 0.105916 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -0.141530u^{72} + 0.130114u^{71} + \dots - 13.1139u + 4.72440 \\ 0.122092u^{72} - 0.537187u^{71} + \dots + 8.50726u - 3.27538 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.0361754u^{72} + 0.773102u^{71} + \dots - 31.3454u + 11.5188 \\ -0.219504u^{72} + 0.183374u^{71} + \dots + 4.64947u + 0.0703768 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -3.01500u^{72} + 3.21861u^{71} + \dots - 11.8184u - 9.35261 \\ 0.189418u^{72} - 0.0254143u^{71} + \dots - 9.37084u + 1.71468 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-4.91581u^{72} + 6.79732u^{71} + \cdots 94.4807u + 6.97585$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{73} + 25u^{72} + \dots + 84u + 1$
c_2, c_5	$u^{73} + u^{72} + \dots + 6u + 1$
c_3, c_8	$u^{73} + u^{72} + \dots - 72u - 29$
c_4,c_{10}	$u^{73} - u^{72} + \dots - 602u - 2285$
c_6, c_{11}	$u^{73} - u^{72} + \dots + 6589u + 2209$
	$u^{73} - 3u^{72} + \dots + 30630u - 13801$
c_9, c_{12}	$u^{73} - 9u^{72} + \dots + 42u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{73} + 55y^{72} + \dots + 1088y - 1$
c_2, c_5	$y^{73} - 25y^{72} + \dots + 84y - 1$
c_3, c_8	$y^{73} - 29y^{72} + \dots + 20264y - 841$
c_4, c_{10}	$y^{73} - 37y^{72} + \dots + 153119224y - 5221225$
c_6, c_{11}	$y^{73} - 45y^{72} + \dots + 119152695y - 4879681$
c_7	$y^{73} + 11y^{72} + \dots - 1310013602y - 190467601$
c_9, c_{12}	$y^{73} - 53y^{72} + \dots + 502y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.996222 + 0.079970I		
a = -0.640369 + 0.961224I	-5.68162 + 3.39874I	0
b = 0.02392 + 1.95649I		
u = -0.996222 - 0.079970I		
a = -0.640369 - 0.961224I	-5.68162 - 3.39874I	0
b = 0.02392 - 1.95649I		
u = -0.758602 + 0.638058I		
a = -0.372335 + 1.210930I	-0.54896 + 3.17316I	0
b = 0.34583 + 1.63890I		
u = -0.758602 - 0.638058I		
a = -0.372335 - 1.210930I	-0.54896 - 3.17316I	0
b = 0.34583 - 1.63890I		
u = -0.618315 + 0.821119I		
a = -0.94140 - 1.06158I	7.38525 - 1.46732I	0
b = 0.088422 - 0.498715I		
u = -0.618315 - 0.821119I		
a = -0.94140 + 1.06158I	7.38525 + 1.46732I	0
b = 0.088422 + 0.498715I		
u = -0.969221		
a = -0.747368	4.41153	-5.41240
b = -2.30513		
u = 0.751264 + 0.736846I		
a = 1.058580 - 0.390102I	9.38761 - 0.55526I	0
b = -0.228660 + 0.735522I		
u = 0.751264 - 0.736846I		
a = 1.058580 + 0.390102I	9.38761 + 0.55526I	0
b = -0.228660 - 0.735522I		
u = 0.733170 + 0.756165I		
a = -0.851966 - 1.016840I	-0.08676 + 2.96078I	0
b = -0.109081 - 1.382330I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.733170 - 0.756165I		
a = -0.851966 + 1.016840I	-0.08676 - 2.96078I	0
b = -0.109081 + 1.382330I		
u = -0.861502 + 0.388627I		
a = 0.165858 + 1.013930I	-0.44770 + 3.61771I	3.83289 - 9.05008I
b = 0.55739 + 1.55978I		
u = -0.861502 - 0.388627I		
a = 0.165858 - 1.013930I	-0.44770 - 3.61771I	3.83289 + 9.05008I
b = 0.55739 - 1.55978I		
u = 0.943914 + 0.043003I		
a = -0.918576 + 0.881953I	-4.65821 - 2.86626I	-1.66244 + 2.85840I
b = 0.02090 + 1.95760I		
u = 0.943914 - 0.043003I		
a = -0.918576 - 0.881953I	-4.65821 + 2.86626I	-1.66244 - 2.85840I
b = 0.02090 - 1.95760I		
u = -0.631153 + 0.853761I		
a = 1.204560 + 0.578291I	2.19037 - 3.39728I	0
b = -0.010140 - 0.154408I		
u = -0.631153 - 0.853761I		
a = 1.204560 - 0.578291I	2.19037 + 3.39728I	0
b = -0.010140 + 0.154408I		
u = 0.892873 + 0.267184I		
a = 0.173653 - 0.505706I	-1.50577 - 0.99916I	-2.39776 + 0.I
b = -0.190432 - 0.912777I		
u = 0.892873 - 0.267184I		
a = 0.173653 + 0.505706I	-1.50577 + 0.99916I	-2.39776 + 0.I
b = -0.190432 + 0.912777I		
u = -0.767998 + 0.745094I		
a = 0.746725 + 0.494096I	0.46877 - 1.97857I	0
b = -0.01556 + 1.80761I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.767998 - 0.745094I		
a = 0.746725 - 0.494096I	0.46877 + 1.97857I	0
b = -0.01556 - 1.80761I		
u = 0.143541 + 0.896389I		
a = -0.216547 - 1.280260I	0.81734 - 5.65289I	7.40959 + 5.97302I
b = 0.0239252 - 0.0949787I		
u = 0.143541 - 0.896389I		
a = -0.216547 + 1.280260I	0.81734 + 5.65289I	7.40959 - 5.97302I
b = 0.0239252 + 0.0949787I		
u = 0.824608 + 0.727987I		
a = -1.29265 + 0.82770I	6.55692 - 1.93707I	0
b = -0.231633 + 0.608811I		
u = 0.824608 - 0.727987I		
a = -1.29265 - 0.82770I	6.55692 + 1.93707I	0
b = -0.231633 - 0.608811I		
u = 0.946156 + 0.586430I		
a = 0.432541 - 0.667921I	-2.76173 - 2.00615I	0
b = -0.43463 - 1.49029I		
u = 0.946156 - 0.586430I		
a = 0.432541 + 0.667921I	-2.76173 + 2.00615I	0
b = -0.43463 + 1.49029I		
u = -0.343909 + 0.787868I		
a = 0.127670 + 1.043220I	0.479750 - 0.044976I	6.90143 - 1.13729I
b = 0.084955 - 0.115660I		
u = -0.343909 - 0.787868I		
a = 0.127670 - 1.043220I	0.479750 + 0.044976I	6.90143 + 1.13729I
b = 0.084955 + 0.115660I		
u = -0.937251 + 0.657162I		
a = 1.099920 - 0.537869I	-1.09504 + 1.90890I	0
b = 0.49874 - 1.35415I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.937251 - 0.657162I		
a = 1.099920 + 0.537869I	-1.09504 - 1.90890I	0
b = 0.49874 + 1.35415I		
u = 0.683384 + 0.923655I		
a = 1.180580 - 0.657252I	4.09129 + 9.93504I	0
b = -0.0799028 - 0.0563581I		
u = 0.683384 - 0.923655I		
a = 1.180580 + 0.657252I	4.09129 - 9.93504I	0
b = -0.0799028 + 0.0563581I		
u = 0.908958 + 0.710659I		
a = -0.890867 + 1.087230I	6.29427 - 3.55581I	0
b = -1.09856 + 2.00903I		
u = 0.908958 - 0.710659I		
a = -0.890867 - 1.087230I	6.29427 + 3.55581I	0
b = -1.09856 - 2.00903I		
u = 1.158780 + 0.119477I		
a = -0.690279 + 0.608358I	-4.61256 - 2.51615I	0
b = -1.51845 + 1.26660I		
u = 1.158780 - 0.119477I		
a = -0.690279 - 0.608358I	-4.61256 + 2.51615I	0
b = -1.51845 - 1.26660I		
u = -0.809794		
a = 1.59121	2.28647	3.88350
b = 2.15213		
u = -0.956447 + 0.710795I		
a = 0.599846 + 0.745235I	-0.11113 + 7.52904I	0
b = -0.60555 + 1.54716I		
u = -0.956447 - 0.710795I		
a = 0.599846 - 0.745235I	-0.11113 - 7.52904I	0
b = -0.60555 - 1.54716I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.964639 + 0.701087I		
a = 0.340557 - 0.829485I	8.73288 - 4.94035I	0
b = 1.41277 - 1.84680I		
u = 0.964639 - 0.701087I		
a = 0.340557 + 0.829485I	8.73288 + 4.94035I	0
b = 1.41277 + 1.84680I		
u = 0.853639 + 0.855312I		
a = -1.151840 + 0.283826I	7.09864 + 0.53230I	0
b = -0.300491 + 0.019376I		
u = 0.853639 - 0.855312I		
a = -1.151840 - 0.283826I	7.09864 - 0.53230I	0
b = -0.300491 - 0.019376I		
u = 0.978323 + 0.710764I		
a = 0.911240 + 0.831323I	-0.83249 - 8.54524I	0
b = 0.43175 + 1.60287I		
u = 0.978323 - 0.710764I		
a = 0.911240 - 0.831323I	-0.83249 + 8.54524I	0
b = 0.43175 - 1.60287I		
u = -1.189080 + 0.229032I		
a = -0.808750 - 0.686874I	-3.81596 + 9.32233I	0
b = -1.52953 - 1.44010I		
u = -1.189080 - 0.229032I		
a = -0.808750 + 0.686874I	-3.81596 - 9.32233I	0
b = -1.52953 + 1.44010I		
u = 1.22912		
a = 1.00223	0.994441	0
b = 1.54563		
u = 0.557309 + 0.526306I		
a = 0.544371 - 0.023747I	-1.71887 - 2.44461I	5.05962 + 1.77262I
b = -0.148793 - 1.306520I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.557309 - 0.526306I		
a = 0.544371 + 0.023747I	-1.71887 + 2.44461I	5.05962 - 1.77262I
b = -0.148793 + 1.306520I		
u = -0.846572 + 0.914565I		
a = -0.655447 - 0.508702I	7.36439 + 2.36950I	0
b = 0.167328 - 0.162277I		
u = -0.846572 - 0.914565I		
a = -0.655447 + 0.508702I	7.36439 - 2.36950I	0
b = 0.167328 + 0.162277I		
u = -1.106920 + 0.577507I		
a = 0.548477 + 0.039525I	-1.75051 + 5.10682I	0
b = 1.248990 + 0.006219I		
u = -1.106920 - 0.577507I		
a = 0.548477 - 0.039525I	-1.75051 - 5.10682I	0
b = 1.248990 - 0.006219I		
u = 0.948038 + 0.819646I		
a = -0.268358 + 1.134470I	6.80244 - 6.76181I	0
b = -0.50120 + 1.94706I		
u = 0.948038 - 0.819646I		
a = -0.268358 - 1.134470I	6.80244 + 6.76181I	0
b = -0.50120 - 1.94706I		
u = 1.183950 + 0.434407I		
a = 0.750592 - 0.018384I	-2.58515 + 0.91174I	0
b = 1.351730 + 0.004092I		
u = 1.183950 - 0.434407I		
a = 0.750592 + 0.018384I	-2.58515 - 0.91174I	0
b = 1.351730 - 0.004092I		
u = -1.047120 + 0.715765I		
a = -0.832244 - 0.806720I	6.11341 + 7.23773I	0
b = -1.12523 - 1.67057I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.047120 - 0.715765I		
a = -0.832244 + 0.806720I	6.11341 - 7.23773I	0
b = -1.12523 + 1.67057I		
u = -1.051990 + 0.719300I		
a = 0.446861 + 1.074860I	0.91326 + 9.25948I	0
b = 1.06139 + 2.17386I		
u = -1.051990 - 0.719300I		
a = 0.446861 - 1.074860I	0.91326 - 9.25948I	0
b = 1.06139 - 2.17386I		
u = -0.977624 + 0.850736I		
a = -0.417028 - 0.618249I	6.94563 + 4.12886I	0
b = -0.65490 - 1.45884I		
u = -0.977624 - 0.850736I		
a = -0.417028 + 0.618249I	6.94563 - 4.12886I	0
b = -0.65490 + 1.45884I		
u = 1.062780 + 0.766541I		
a = 0.558144 - 1.091810I	2.9062 - 16.1647I	0
b = 1.05492 - 2.27168I		
u = 1.062780 - 0.766541I		
a = 0.558144 + 1.091810I	2.9062 + 16.1647I	0
b = 1.05492 + 2.27168I		
u = -0.624370		
a = 2.54662	3.04322	-5.86610
b = 0.805344		
u = -0.362561 + 0.439077I		
a = 0.900518 + 0.463831I	1.059400 - 0.337570I	9.21872 + 1.59251I
b = 0.193003 - 0.160197I		
u = -0.362561 - 0.439077I		
a = 0.900518 - 0.463831I	1.059400 + 0.337570I	9.21872 - 1.59251I
b = 0.193003 + 0.160197I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.318447		
a = -3.97650	6.81257	17.0470
b = 0.921377		
u = 0.164283 + 0.047310I		
a = -0.05014 + 4.02701I	-2.12942 - 2.53807I	-0.97059 + 1.61971I
b = -1.34290 - 0.64628I		
u = 0.164283 - 0.047310I		
a = -0.05014 - 4.02701I	-2.12942 + 2.53807I	-0.97059 - 1.61971I
b = -1.34290 + 0.64628I		

$$I_2^u = \langle u^{19} - u^{18} + \dots + b - 2, \ u^{19} + u^{18} + \dots + a - 6, \ u^{20} - 4u^{18} + \dots - u + 1 \rangle$$

(i) Arc colorings

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

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

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

$$a_{11} = \begin{pmatrix} -u^{19} - u^{18} + \dots + u + 6 \\ -u^{19} + u^{18} + \dots + 4u + 2 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -5u^{19} - u^{18} + \dots + 12u + 6 \\ -2u^{19} - u^{18} + \dots + 2u + 5 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} -6u^{19} - 2u^{18} + \dots + 13u + 9 \\ -2u^{19} - u^{18} + \dots + u + 5 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -u^{19} - 2u^{18} + \dots + u + 5 \\ -u^{19} + 4u^{17} + \dots + 2u + 4 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 4u^{19} - 15u^{17} + \dots - 14u - 1 \\ u^{15} - 3u^{13} + \dots - 3u - 1 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -2u^{19} - 3u^{18} + \dots - 43u^{2} + 11 \\ -u^{19} + 4u^{17} + \dots + 2u + 4 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 4u^{19} + 3u^{18} + \dots - 4u - 8 \\ 3u^{19} + 2u^{18} + \dots - 3u - 3 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= -20u^{19} - 8u^{18} + 71u^{17} + 50u^{16} - 199u^{15} - 141u^{14} + 362u^{13} + 309u^{12} - 520u^{11} - 465u^{10} + 557u^9 + 555u^8 - 458u^7 - 481u^6 + 268u^5 + 302u^4 - 86u^3 - 110u^2 + 29u + 24u^2 + 26u^3 - 120u^2 +$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20} - 8u^{19} + \dots - 13u + 1$
c_2	$u^{20} - 4u^{18} + \dots - u + 1$
c_3	$u^{20} - 8u^{18} + \dots + u + 1$
c_4	$u^{20} - 6u^{18} + \dots - u + 1$
c_5	$u^{20} - 4u^{18} + \dots + u + 1$
c_6	$u^{20} + 4u^{19} + \dots + 4u + 1$
c_7	$u^{20} - 2u^{18} + \dots - 343u + 37$
c_8	$u^{20} - 8u^{18} + \dots - u + 1$
c_9	$u^{20} - 4u^{19} + \dots + 11u - 1$
c_{10}	$u^{20} - 6u^{18} + \dots + u + 1$
c_{11}	$u^{20} - 4u^{19} + \dots - 4u + 1$
c_{12}	$u^{20} + 4u^{19} + \dots - 11u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{20} + 16y^{19} + \dots - 13y + 1$
c_2, c_5	$y^{20} - 8y^{19} + \dots - 13y + 1$
c_3, c_8	$y^{20} - 16y^{19} + \dots - 21y + 1$
c_4,c_{10}	$y^{20} - 12y^{19} + \dots + 3y + 1$
c_6, c_{11}	$y^{20} - 16y^{19} + \dots + 4y + 1$
	$y^{20} - 4y^{19} + \dots - 48311y + 1369$
c_9, c_{12}	$y^{20} - 8y^{19} + \dots - 139y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.942703		
a = 1.01394	4.96957	9.67670
b = 2.46434		
u = 1.021990 + 0.401552I		
a = 0.490770 + 0.256167I	-3.43274 - 0.00501I	-0.269919 + 0.886126I
b = 0.324519 - 0.338569I		
u = 1.021990 - 0.401552I		
a = 0.490770 - 0.256167I	-3.43274 + 0.00501I	-0.269919 - 0.886126I
b = 0.324519 + 0.338569I		
u = -0.676743 + 0.574335I		
a = -0.665466 + 0.475040I	-1.31380 - 1.46689I	1.93443 - 1.03956I
b = -1.05039 + 1.39641I		
u = -0.676743 - 0.574335I		
a = -0.665466 - 0.475040I	-1.31380 + 1.46689I	1.93443 + 1.03956I
b = -1.05039 - 1.39641I		
u = 0.811874 + 0.794873I		
a = -0.956293 + 0.516230I	10.29410 - 1.34128I	11.37265 + 3.04262I
b = 0.278281 - 0.253589I		
u = 0.811874 - 0.794873I		
a = -0.956293 - 0.516230I	10.29410 + 1.34128I	11.37265 - 3.04262I
b = 0.278281 + 0.253589I		
u = 1.14495		
a = 1.07374	0.705306	-7.89590
b = 1.53754		
u = -1.011460 + 0.552332I		
a = 0.125011 - 0.483876I	-2.42227 + 5.99613I	1.25444 - 6.99994I
b = -0.386024 - 0.055826I		
u = -1.011460 - 0.552332I		
a = 0.125011 + 0.483876I	-2.42227 - 5.99613I	1.25444 + 6.99994I
b = -0.386024 + 0.055826I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.808558 + 0.852100I		
a = -1.110280 - 0.654219I	7.38412 + 0.35956I	10.74792 - 1.94607I
b = -0.324330 - 0.410095I		
u = -0.808558 - 0.852100I		
a = -1.110280 + 0.654219I	7.38412 - 0.35956I	10.74792 + 1.94607I
b = -0.324330 + 0.410095I		
u = 0.958262 + 0.756351I		
a = -0.497932 + 0.796929I	9.83772 - 4.51280I	11.07027 + 3.02713I
b = -1.25854 + 1.82161I		
u = 0.958262 - 0.756351I		
a = -0.497932 - 0.796929I	9.83772 + 4.51280I	11.07027 - 3.02713I
b = -1.25854 - 1.82161I		
u = 0.632431 + 0.395728I		
a = 0.029010 - 1.115310I	-2.02985 - 3.37926I	-0.02656 + 9.44485I
b = -0.61602 - 2.06351I		
u = 0.632431 - 0.395728I		
a = 0.029010 + 1.115310I	-2.02985 + 3.37926I	-0.02656 - 9.44485I
b = -0.61602 + 2.06351I		
u = -0.981912 + 0.806314I		
a = -0.565494 - 0.975827I	6.85419 + 5.82262I	8.97131 - 3.20438I
b = -0.72422 - 1.69291I		
u = -0.981912 - 0.806314I		
a = -0.565494 + 0.975827I	6.85419 - 5.82262I	8.97131 + 3.20438I
b = -0.72422 + 1.69291I		
u = -0.603876		
a = 2.10690	6.39267	-2.87160
b = -0.708769		
u = 0.509858		
a = 3.10678	3.38690	18.9820
b = 1.22034		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{20} - 8u^{19} + \dots - 13u + 1)(u^{73} + 25u^{72} + \dots + 84u + 1) $
c_2	$(u^{20} - 4u^{18} + \dots - u + 1)(u^{73} + u^{72} + \dots + 6u + 1)$
c_3	$(u^{20} - 8u^{18} + \dots + u + 1)(u^{73} + u^{72} + \dots - 72u - 29)$
c_4	$ (u^{20} - 6u^{18} + \dots - u + 1)(u^{73} - u^{72} + \dots - 602u - 2285) $
c_5	$(u^{20} - 4u^{18} + \dots + u + 1)(u^{73} + u^{72} + \dots + 6u + 1)$
c_6	$(u^{20} + 4u^{19} + \dots + 4u + 1)(u^{73} - u^{72} + \dots + 6589u + 2209)$
c_7	$ (u^{20} - 2u^{18} + \dots - 343u + 37)(u^{73} - 3u^{72} + \dots + 30630u - 13801) $
c_8	$(u^{20} - 8u^{18} + \dots - u + 1)(u^{73} + u^{72} + \dots - 72u - 29)$
c_9	$(u^{20} - 4u^{19} + \dots + 11u - 1)(u^{73} - 9u^{72} + \dots + 42u - 1)$
c_{10}	$(u^{20} - 6u^{18} + \dots + u + 1)(u^{73} - u^{72} + \dots - 602u - 2285)$
c_{11}	$(u^{20} - 4u^{19} + \dots - 4u + 1)(u^{73} - u^{72} + \dots + 6589u + 2209)$
c_{12}	$(u^{20} + 4u^{19} + \dots - 11u - 1)(u^{73} - 9u^{72} + \dots + 42u - 1)$ 20

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1	$(y^{20} + 16y^{19} + \dots - 13y + 1)(y^{73} + 55y^{72} + \dots + 1088y - 1)$	
c_2, c_5	$(y^{20} - 8y^{19} + \dots - 13y + 1)(y^{73} - 25y^{72} + \dots + 84y - 1)$	
c_3, c_8	$(y^{20} - 16y^{19} + \dots - 21y + 1)(y^{73} - 29y^{72} + \dots + 20264y - 841)$	
c_4, c_{10}	$(y^{20} - 12y^{19} + \dots + 3y + 1)$ $\cdot (y^{73} - 37y^{72} + \dots + 153119224y - 5221225)$	
c_6, c_{11}	$(y^{20} - 16y^{19} + \dots + 4y + 1)$ $\cdot (y^{73} - 45y^{72} + \dots + 119152695y - 4879681)$	
c ₇	$(y^{20} - 4y^{19} + \dots - 48311y + 1369)$ $\cdot (y^{73} + 11y^{72} + \dots - 1310013602y - 190467601)$	
c_9, c_{12}	$(y^{20} - 8y^{19} + \dots - 139y + 1)(y^{73} - 53y^{72} + \dots + 502y - 1)$	