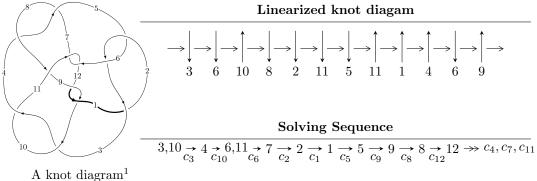
$12n_{0517} (K12n_{0517})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 2.59090 \times 10^{123} u^{69} - 1.74742 \times 10^{122} u^{68} + \dots + 5.02254 \times 10^{123} b + 2.90544 \times 10^{125}, \\ &- 2.56644 \times 10^{125} u^{69} + 1.38382 \times 10^{124} u^{68} + \dots + 1.19537 \times 10^{125} a - 2.88247 \times 10^{127}, \\ &u^{70} + u^{69} + \dots + 167 u + 119 \rangle \\ I_2^u &= \langle u^{19} - 11 u^{17} + \dots + b + 4 u, \ -u^{17} + 10 u^{15} + \dots + a - 1, \ u^{20} - 12 u^{18} + \dots - 4 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 90 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.
$$I_1^u = \langle 2.59 \times 10^{123} u^{69} - 1.75 \times 10^{122} u^{68} + \dots + 5.02 \times 10^{123} b + 2.91 \times 10^{125}, \ -2.57 \times 10^{125} u^{69} + 1.38 \times 10^{124} u^{68} + \dots + 1.20 \times 10^{125} a - 2.88 \times 10^{127}, \ u^{70} + u^{69} + \dots + 167 u + 119 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_6 = \begin{pmatrix} 2.14699u^{69} - 0.115765u^{68} + \dots + 107.714u + 241.137 \\ -0.515855u^{69} + 0.0347916u^{68} + \dots - 26.3006u - 57.8481 \end{pmatrix} \\ a_{11} = \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_7 = \begin{pmatrix} 2.48131u^{69} - 0.149289u^{68} + \dots + 124.761u + 277.011 \\ -0.586466u^{69} + 0.0388864u^{68} + \dots - 30.8994u - 65.7480 \end{pmatrix} \\ a_2 = \begin{pmatrix} 0.685277u^{69} + 0.0880802u^{68} + \dots - 76.1759u - 177.582 \\ 0.685277u^{69} - 0.0402039u^{68} + \dots + 34.8200u + 76.6862 \end{pmatrix} \\ a_1 = \begin{pmatrix} 0.916797u^{69} + 0.0478763u^{68} + \dots - 41.3559u - 100.896 \\ 0.685277u^{69} - 0.0402039u^{68} + \dots + 34.8200u + 76.6862 \end{pmatrix} \\ a_5 = \begin{pmatrix} 1.07887u^{69} - 0.0702660u^{68} + \dots + 57.0307u + 120.856 \\ 0.0814787u^{69} + 0.00137789u^{68} + \dots + 3.35624u + 10.5249 \end{pmatrix} \\ a_9 = \begin{pmatrix} 0.674424u^{69} - 0.0312906u^{68} + \dots + 30.0286u + 74.7526 \\ -0.0263865u^{69} - 0.00119856u^{68} + \dots + 0.797097u - 2.27910 \end{pmatrix} \\ a_8 = \begin{pmatrix} 0.619496u^{69} - 0.0200100u^{68} + \dots + 25.8813u + 68.2796 \\ -0.00908482u^{69} - 0.0135532u^{68} + \dots + 1.17023u - 0.873214 \end{pmatrix} \\ a_{12} = \begin{pmatrix} 0.58425u^{69} + 0.0976078u^{68} + \dots - 82.4818u - 179.510 \\ 0.515765u^{69} - 0.0286416u^{68} + \dots + 28.2421u + 57.9908 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-3.84455u^{69} + 0.214348u^{68} + \cdots 176.947u 438.096$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{70} + 37u^{69} + \dots + 12u + 1$
c_2, c_5	$u^{70} + u^{69} + \dots + 2u + 1$
c_3, c_{10}	$u^{70} + u^{69} + \dots + 167u + 119$
c_4, c_7	$u^{70} - 2u^{69} + \dots - 22u + 47$
c_6, c_{11}	$u^{70} + 3u^{69} + \dots + 7369u + 589$
c ₈	$u^{70} + 5u^{69} + \dots - 20478u + 1117$
c_9, c_{12}	$u^{70} - 3u^{69} + \dots - 379u + 71$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{70} + 7y^{69} + \dots + 132y + 1$
c_2, c_5	$y^{70} - 37y^{69} + \dots - 12y + 1$
c_3, c_{10}	$y^{70} - 67y^{69} + \dots - 100955y + 14161$
c_4, c_7	$y^{70} + 26y^{69} + \dots + 56950y + 2209$
c_6, c_{11}	$y^{70} - 51y^{69} + \dots - 7893673y + 346921$
<i>C</i> ₈	$y^{70} + 13y^{69} + \dots - 1909946y + 1247689$
c_9, c_{12}	$y^{70} - 39y^{69} + \dots + 159529y + 5041$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.162942 + 0.992734I		
a = -0.526812 - 0.555218I	-4.48127 + 4.09578I	0
b = -1.128030 + 0.561542I		
u = 0.162942 - 0.992734I		
a = -0.526812 + 0.555218I	-4.48127 - 4.09578I	0
b = -1.128030 - 0.561542I		
u = -0.587410 + 0.760416I		
a = -1.068560 + 0.458240I	-0.736963 + 0.674108I	0
b = -0.710294 - 0.340326I		
u = -0.587410 - 0.760416I		
a = -1.068560 - 0.458240I	-0.736963 - 0.674108I	0
b = -0.710294 + 0.340326I		
u = 0.260207 + 0.914917I		
a = -0.512081 - 0.446654I	2.36112 - 1.77812I	0
b = -0.852333 - 0.420136I		
u = 0.260207 - 0.914917I		
a = -0.512081 + 0.446654I	2.36112 + 1.77812I	0
b = -0.852333 + 0.420136I		
u = -1.057580 + 0.004969I		
a = -0.17447 + 2.35938I	-0.22585 + 2.80688I	0
b = 0.714189 - 0.522373I		
u = -1.057580 - 0.004969I		
a = -0.17447 - 2.35938I	-0.22585 - 2.80688I	0
b = 0.714189 + 0.522373I		
u = -1.026770 + 0.280884I		
a = 0.334154 - 0.106289I	-4.19560 + 0.59854I	0
b = -1.41951 + 0.14300I		
u = -1.026770 - 0.280884I		
a = 0.334154 + 0.106289I	-4.19560 - 0.59854I	0
b = -1.41951 - 0.14300I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.358150 + 1.054780I		
a = 0.497432 + 0.636293I	-3.66192 + 10.54230I	0
b = 1.155510 - 0.571979I		
u = 0.358150 - 1.054780I		
a = 0.497432 - 0.636293I	-3.66192 - 10.54230I	0
b = 1.155510 + 0.571979I		
u = -1.047030 + 0.481909I		
a = 0.975032 - 0.983126I	0.42197 - 4.87071I	0
b = 0.489259 + 0.339253I		
u = -1.047030 - 0.481909I		
a = 0.975032 + 0.983126I	0.42197 + 4.87071I	0
b = 0.489259 - 0.339253I		
u = -0.408614 + 0.731960I		
a = 0.423060 + 0.429280I	-1.03432 - 5.43336I	0.32914 + 5.23361I
b = 0.245639 - 0.809125I		
u = -0.408614 - 0.731960I		
a = 0.423060 - 0.429280I	-1.03432 + 5.43336I	0.32914 - 5.23361I
b = 0.245639 + 0.809125I		
u = -1.201710 + 0.128261I		
a = 0.52282 - 2.12440I	0.56341 - 3.78229I	0
b = -0.607963 + 0.436429I		
u = -1.201710 - 0.128261I		
a = 0.52282 + 2.12440I	0.56341 + 3.78229I	0
b = -0.607963 - 0.436429I		
u = -0.275586 + 0.695762I		
a = 0.24228 - 1.51253I	-6.37463 - 4.14439I	-6.36331 + 4.51180I
b = 1.221590 + 0.294817I		
u = -0.275586 - 0.695762I		
a = 0.24228 + 1.51253I	-6.37463 + 4.14439I	-6.36331 - 4.51180I
b = 1.221590 - 0.294817I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.265140 + 0.097957I		
a = -0.273902 - 1.370370I	5.45930 + 2.61096I	0
b = -1.198590 + 0.510986I		
u = 1.265140 - 0.097957I		
a = -0.273902 + 1.370370I	5.45930 - 2.61096I	0
b = -1.198590 - 0.510986I		
u = -0.149406 + 0.715223I		
a = -0.538311 - 0.502735I	-2.04923 + 0.75692I	-2.25190 - 0.59358I
b = -0.251933 + 0.713035I		
u = -0.149406 - 0.715223I		
a = -0.538311 + 0.502735I	-2.04923 - 0.75692I	-2.25190 + 0.59358I
b = -0.251933 - 0.713035I		
u = -1.298540 + 0.175170I		
a = -0.570275 + 0.268495I	-2.09036 - 4.20016I	0
b = 1.60944 - 0.20167I		
u = -1.298540 - 0.175170I		
a = -0.570275 - 0.268495I	-2.09036 + 4.20016I	0
b = 1.60944 + 0.20167I		
u = 0.646226 + 0.217967I		
a = -0.526529 - 0.590917I	1.194110 + 0.658977I	5.37455 - 1.65683I
b = 0.204273 + 0.374685I		
u = 0.646226 - 0.217967I		
a = -0.526529 + 0.590917I	1.194110 - 0.658977I	5.37455 + 1.65683I
b = 0.204273 - 0.374685I		
u = -1.306510 + 0.216293I		
a = 0.21558 + 1.96906I	8.43098 - 5.62723I	0
b = -0.998153 - 0.908859I		
u = -1.306510 - 0.216293I		
a = 0.21558 - 1.96906I	8.43098 + 5.62723I	0
b = -0.998153 + 0.908859I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.542381 + 0.399358I		
a = 1.25802 - 1.62036I	-0.46038 - 3.54414I	-1.55532 + 8.51020I
b = 0.912515 + 0.347188I		
u = -0.542381 - 0.399358I		
a = 1.25802 + 1.62036I	-0.46038 + 3.54414I	-1.55532 - 8.51020I
b = 0.912515 - 0.347188I		
u = 1.283520 + 0.392498I		
a = 0.251934 + 1.120160I	5.76596 + 6.53404I	0
b = 1.187610 - 0.547691I		
u = 1.283520 - 0.392498I		
a = 0.251934 - 1.120160I	5.76596 - 6.53404I	0
b = 1.187610 + 0.547691I		
u = 1.199560 + 0.602314I		
a = -0.428332 - 0.050852I	-1.34620 + 1.52607I	0
b = 1.028560 + 0.413497I		
u = 1.199560 - 0.602314I		
a = -0.428332 + 0.050852I	-1.34620 - 1.52607I	0
b = 1.028560 - 0.413497I		
u = 1.054730 + 0.838026I		
a = 0.220170 - 0.062594I	-1.67691 - 4.10730I	0
b = -0.972698 - 0.437995I		
u = 1.054730 - 0.838026I		
a = 0.220170 + 0.062594I	-1.67691 + 4.10730I	0
b = -0.972698 + 0.437995I		
u = 1.344190 + 0.102651I		
a = 0.89673 + 1.29535I	8.88504 - 1.38023I	0
b = -0.868924 - 1.038020I		
u = 1.344190 - 0.102651I		
a = 0.89673 - 1.29535I	8.88504 + 1.38023I	0
b = -0.868924 + 1.038020I		
	I	

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.340120 + 0.269926I		
a = -0.92144 + 1.59073I	-1.13757 + 1.42679I	0
b = 0.981639 - 0.519310I		
u = 1.340120 - 0.269926I		
a = -0.92144 - 1.59073I	-1.13757 - 1.42679I	0
b = 0.981639 + 0.519310I		
u = 1.341050 + 0.289401I		
a = -0.635108 - 1.174990I	2.62724 + 2.87361I	0
b = 0.484189 + 1.015180I		
u = 1.341050 - 0.289401I		
a = -0.635108 + 1.174990I	2.62724 - 2.87361I	0
b = 0.484189 - 1.015180I		
u = -0.400487 + 0.438177I		
a = -0.921915 + 0.093140I	-1.256590 + 0.357225I	-7.27517 + 0.18626I
b = -0.728854 + 0.148303I		
u = -0.400487 - 0.438177I		
a = -0.921915 - 0.093140I	-1.256590 - 0.357225I	-7.27517 - 0.18626I
b = -0.728854 - 0.148303I		
u = -0.119971 + 0.563177I		
a = -0.09431 + 1.68398I	-5.81925 + 1.72254I	-6.10737 - 2.59063I
b = -1.290550 - 0.275222I		
u = -0.119971 - 0.563177I		
a = -0.09431 - 1.68398I	-5.81925 - 1.72254I	-6.10737 + 2.59063I
b = -1.290550 + 0.275222I		
u = -1.46008 + 0.13032I		
a = 0.051187 + 0.556347I	8.76387 - 1.80793I	0
b = 0.076948 - 0.671711I		
u = -1.46008 - 0.13032I		
a = 0.051187 - 0.556347I	8.76387 + 1.80793I	0
b = 0.076948 + 0.671711I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.40292 + 0.42870I		
a = -0.07992 - 1.66606I	0.46915 - 9.15994I	0
b = 1.178830 + 0.716037I		
u = -1.40292 - 0.42870I		
a = -0.07992 + 1.66606I	0.46915 + 9.15994I	0
b = 1.178830 - 0.716037I		
u = 1.44300 + 0.29103I		
a = 0.74349 - 1.68648I	-0.81406 + 7.77590I	0
b = -1.021850 + 0.498295I		
u = 1.44300 - 0.29103I		
a = 0.74349 + 1.68648I	-0.81406 - 7.77590I	0
b = -1.021850 - 0.498295I		
u = 1.47157 + 0.29756I		
a = 0.501696 + 1.251770I	4.98777 + 9.24338I	0
b = -0.387022 - 1.144810I		
u = 1.47157 - 0.29756I		
a = 0.501696 - 1.251770I	4.98777 - 9.24338I	0
b = -0.387022 + 1.144810I		
u = 1.52784 + 0.12654I		
a = 0.09189 - 1.46031I	6.37959 + 5.48541I	0
b = -1.140390 + 0.501960I		
u = 1.52784 - 0.12654I		
a = 0.09189 + 1.46031I	6.37959 - 5.48541I	0
b = -1.140390 - 0.501960I		
u = -0.036904 + 0.432180I		
a = 0.875519 + 0.275342I	4.36453 + 3.13122I	-8.73522 - 5.59654I
b = 0.904712 - 0.843485I		
u = -0.036904 - 0.432180I		
a = 0.875519 - 0.275342I	4.36453 - 3.13122I	-8.73522 + 5.59654I
b = 0.904712 + 0.843485I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.51010 + 0.42006I		
a = 0.13045 + 1.56613I	2.2947 - 15.8377I	0
b = -1.24589 - 0.71543I		
u = -1.51010 - 0.42006I		
a = 0.13045 - 1.56613I	2.2947 + 15.8377I	0
b = -1.24589 + 0.71543I		
u = 1.58659 + 0.21199I		
a = -0.123175 + 1.118740I	6.61081 + 2.90666I	0
b = 1.146000 - 0.542754I		
u = 1.58659 - 0.21199I		
a = -0.123175 - 1.118740I	6.61081 - 2.90666I	0
b = 1.146000 + 0.542754I		
u = -1.60871 + 0.02945I		
a = 0.541754 - 0.550692I	9.05325 - 1.52708I	0
b = -0.291751 + 0.192601I		
u = -1.60871 - 0.02945I		
a = 0.541754 + 0.550692I	9.05325 + 1.52708I	0
b = -0.291751 - 0.192601I		
u = -1.64274 + 0.01405I		
a = -0.014479 - 0.737286I	9.17388 - 1.53079I	0
b = 0.224356 + 0.463466I		
u = -1.64274 - 0.01405I		
a = -0.014479 + 0.737286I	9.17388 + 1.53079I	0
b = 0.224356 - 0.463466I		
u = 0.298614 + 0.147930I		
a = -2.04425 + 3.28230I	2.19229 - 1.58613I	8.62350 + 3.92336I
b = 0.849476 + 0.355840I		
u = 0.298614 - 0.147930I		
a = -2.04425 - 3.28230I	2.19229 + 1.58613I	8.62350 - 3.92336I
b = 0.849476 - 0.355840I		

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} u^{17} - 10u^{15} + \dots - 8u + 1 \\ -u^{19} + 11u^{17} + \dots + 2u^{2} - 4u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u^{15} + 10u^{13} + \dots - 8u + 1 \\ u^{17} - 10u^{15} + \dots + 3u^{2} - 4u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -u^{19} + 11u^{17} + \dots - 7u + 3 \\ u^{17} - 10u^{15} + \dots - 6u + 1 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -u^{19} + 12u^{17} + \dots - 13u + 4 \\ u^{17} - 10u^{15} + \dots - 6u + 1 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -u^{19} + 12u^{17} + \dots - 7u - 2 \\ u^{16} - 9u^{14} + \dots + u - 2 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{19} - 12u^{17} + \dots + 14u - 4 \\ u^{19} - 11u^{17} + \dots + 7u - 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -2u^{17} + 20u^{15} + \dots + 14u - 4 \\ 2u^{19} - 21u^{17} + \dots + 6u - 1 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u^{5} - 3u^{3} + 2u \\ u^{4} - u^{3} - 2u^{2} + 2u \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-4u^{17} - 2u^{16} + 40u^{15} + 17u^{14} - 168u^{13} - 57u^{12} + 386u^{11} + 87u^{10} - 529u^9 - 34u^8 + 432u^7 - 70u^6 - 182u^5 + 98u^4 + 13u^3 - 46u^2 + 14u + 6$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20} - 14u^{19} + \dots - 17u + 1$
c_2	$u^{20} - 7u^{18} + \dots + u + 1$
c_3	$u^{20} - 12u^{18} + \dots - 4u + 1$
c_4	$u^{20} - 3u^{19} + \dots - 3u + 1$
c_5	$u^{20} - 7u^{18} + \dots - u + 1$
c_6	$u^{20} - 2u^{18} + \dots - 8u + 1$
c_7	$u^{20} + 3u^{19} + \dots + 3u + 1$
c_8	$u^{20} + 3u^{17} + \dots + 65u + 25$
<i>c</i> ₉	$u^{20} - 4u^{19} + \dots + 2u^2 + 1$
c_{10}	$u^{20} - 12u^{18} + \dots + 4u + 1$
c_{11}	$u^{20} - 2u^{18} + \dots + 8u + 1$
c_{12}	$u^{20} + 4u^{19} + \dots + 2u^2 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{20} - 2y^{19} + \dots - 13y + 1$
c_2, c_5	$y^{20} - 14y^{19} + \dots - 17y + 1$
c_3, c_{10}	$y^{20} - 24y^{19} + \dots + 8y + 1$
c_4, c_7	$y^{20} + 13y^{19} + \dots + 17y + 1$
c_6, c_{11}	$y^{20} - 4y^{19} + \dots - 38y + 1$
<i>C</i> ₈	$y^{20} + 32y^{18} + \dots + 14925y + 625$
c_9, c_{12}	$y^{20} - 16y^{19} + \dots + 4y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.783854 + 0.449976I		
a = 0.88225 + 1.46027I	-1.21478 - 1.69741I	-5.21357 + 2.91826I
b = 0.607925 + 0.053893I		
u = 0.783854 - 0.449976I		
a = 0.88225 - 1.46027I	-1.21478 + 1.69741I	-5.21357 - 2.91826I
b = 0.607925 - 0.053893I		
u = -0.834972 + 0.271757I		
a = -0.402769 + 0.469015I	-4.22306 + 1.50916I	-0.90565 - 4.60792I
b = 1.336280 - 0.001110I		
u = -0.834972 - 0.271757I		
a = -0.402769 - 0.469015I	-4.22306 - 1.50916I	-0.90565 + 4.60792I
b = 1.336280 + 0.001110I		
u = -1.097540 + 0.232712I		
a = 0.824240 - 0.456164I	-3.24781 - 3.48078I	-2.45496 + 2.40562I
b = -1.364360 + 0.107526I		
u = -1.097540 - 0.232712I		
a = 0.824240 + 0.456164I	-3.24781 + 3.48078I	-2.45496 - 2.40562I
b = -1.364360 - 0.107526I		
u = 1.076770 + 0.366665I		
a = -0.91092 - 1.73477I	-0.19696 + 4.79433I	-7.00908 - 7.37935I
b = -0.617101 + 0.196016I		
u = 1.076770 - 0.366665I		
a = -0.91092 + 1.73477I	-0.19696 - 4.79433I	-7.00908 + 7.37935I
b = -0.617101 - 0.196016I		
u = 0.202370 + 0.595132I		
a = 0.51038 + 1.43333I	1.59110 - 1.41451I	-5.95128 - 0.67158I
b = 0.911128 + 0.340957I		
u = 0.202370 - 0.595132I		
a = 0.51038 - 1.43333I	1.59110 + 1.41451I	-5.95128 + 0.67158I
b = 0.911128 - 0.340957I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.407250 + 0.133915I		
a = -0.22271 + 1.63206I	9.26854 + 4.51233I	6.25147 - 2.40036I
b = 1.135860 - 0.806663I		
u = 1.407250 - 0.133915I		
a = -0.22271 - 1.63206I	9.26854 - 4.51233I	6.25147 + 2.40036I
b = 1.135860 + 0.806663I		
u = 1.49226 + 0.19871I		
a = -0.104580 - 1.177260I	6.50658 + 4.39997I	3.95982 - 2.84697I
b = -1.176570 + 0.447055I		
u = 1.49226 - 0.19871I		
a = -0.104580 + 1.177260I	6.50658 - 4.39997I	3.95982 + 2.84697I
b = -1.176570 - 0.447055I		
u = -1.52078 + 0.07559I		
a = -0.645514 + 1.015480I	10.74570 + 1.73917I	8.18415 - 2.81379I
b = 0.640462 - 0.853286I		
u = -1.52078 - 0.07559I		
a = -0.645514 - 1.015480I	10.74570 - 1.73917I	8.18415 + 2.81379I
b = 0.640462 + 0.853286I		
u = -1.64381 + 0.07647I		
a = 0.690763 - 0.401595I	8.89603 - 1.12476I	-0.70439 - 8.32969I
b = -0.564885 + 0.278244I		
u = -1.64381 - 0.07647I		
a = 0.690763 + 0.401595I	8.89603 + 1.12476I	-0.70439 + 8.32969I
b = -0.564885 - 0.278244I		
u = 0.134600 + 0.262014I		
a = -0.62114 - 1.47786I	4.77332 - 2.98706I	9.34349 + 0.03679I
b = -0.908744 - 0.795002I		
u = 0.134600 - 0.262014I		
a = -0.62114 + 1.47786I	4.77332 + 2.98706I	9.34349 - 0.03679I
b = -0.908744 + 0.795002I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{20} - 14u^{19} + \dots - 17u + 1)(u^{70} + 37u^{69} + \dots + 12u + 1) $
c_2	$(u^{20} - 7u^{18} + \dots + u + 1)(u^{70} + u^{69} + \dots + 2u + 1)$
<i>c</i> ₃	$(u^{20} - 12u^{18} + \dots - 4u + 1)(u^{70} + u^{69} + \dots + 167u + 119)$
c_4	$(u^{20} - 3u^{19} + \dots - 3u + 1)(u^{70} - 2u^{69} + \dots - 22u + 47)$
<i>C</i> ₅	$(u^{20} - 7u^{18} + \dots - u + 1)(u^{70} + u^{69} + \dots + 2u + 1)$
<i>c</i> ₆	$ (u^{20} - 2u^{18} + \dots - 8u + 1)(u^{70} + 3u^{69} + \dots + 7369u + 589) $
	$ (u^{20} + 3u^{19} + \dots + 3u + 1)(u^{70} - 2u^{69} + \dots - 22u + 47) $
<i>c</i> ₈	$ (u^{20} + 3u^{17} + \dots + 65u + 25)(u^{70} + 5u^{69} + \dots - 20478u + 1117) $
c_9	$ (u^{20} - 4u^{19} + \dots + 2u^2 + 1)(u^{70} - 3u^{69} + \dots - 379u + 71) $
c_{10}	$(u^{20} - 12u^{18} + \dots + 4u + 1)(u^{70} + u^{69} + \dots + 167u + 119)$
c_{11}	$(u^{20} - 2u^{18} + \dots + 8u + 1)(u^{70} + 3u^{69} + \dots + 7369u + 589)$
c_{12}	$(u^{20} + 4u^{19} + \dots + 2u^2 + 1)(u^{70} - 3u^{69} + \dots - 379u + 71)$ 19

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{20} - 2y^{19} + \dots - 13y + 1)(y^{70} + 7y^{69} + \dots + 132y + 1)$
c_2,c_5	$(y^{20} - 14y^{19} + \dots - 17y + 1)(y^{70} - 37y^{69} + \dots - 12y + 1)$
c_3, c_{10}	$(y^{20} - 24y^{19} + \dots + 8y + 1)(y^{70} - 67y^{69} + \dots - 100955y + 14161)$
c_4, c_7	$(y^{20} + 13y^{19} + \dots + 17y + 1)(y^{70} + 26y^{69} + \dots + 56950y + 2209)$
c_{6}, c_{11}	$(y^{20} - 4y^{19} + \dots - 38y + 1)(y^{70} - 51y^{69} + \dots - 7893673y + 346921)$
c ₈	$(y^{20} + 32y^{18} + \dots + 14925y + 625)$ $\cdot (y^{70} + 13y^{69} + \dots - 1909946y + 1247689)$
c_9, c_{12}	$(y^{20} - 16y^{19} + \dots + 4y + 1)(y^{70} - 39y^{69} + \dots + 159529y + 5041)$