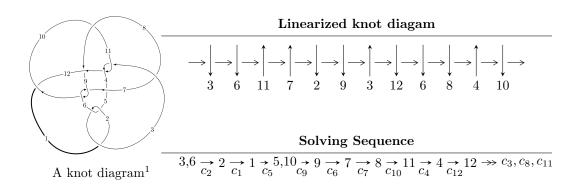
$12n_{0424} \ (K12n_{0424})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 2.60349 \times 10^{202} u^{67} - 1.26475 \times 10^{203} u^{66} + \dots + 3.63435 \times 10^{205} b + 1.56735 \times 10^{205}, \\ &2.69439 \times 10^{205} u^{67} - 1.16805 \times 10^{206} u^{66} + \dots + 1.15209 \times 10^{208} a + 8.44586 \times 10^{207}, \\ &u^{68} - 5u^{67} + \dots + 86u - 317 \rangle \\ I_2^u &= \langle 56939 u^{20} + 161982 u^{19} + \dots + 59123b + 87648, \ 299698 u^{20} + 645903 u^{19} + \dots + 59123a + 588498, \\ &u^{21} + 2u^{20} + \dots + 4u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 89 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.
$$I_1^u = \langle 2.60 \times 10^{202} u^{67} - 1.26 \times 10^{203} u^{66} + \dots + 3.63 \times 10^{205} b + 1.57 \times 10^{205}, \ 2.69 \times 10^{205} u^{67} - 1.17 \times 10^{206} u^{66} + \dots + 1.15 \times 10^{208} a + 8.45 \times 10^{207}, \ u^{68} - 5u^{67} + \dots + 86u - 317 \rangle$$

(i) Arc colorings

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

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

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

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

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

$$a_{10} = \begin{pmatrix} -0.00233870u^{67} + 0.0101386u^{66} + \cdots - 11.2417u - 0.733090 \\ -0.000716356u^{67} + 0.00347999u^{66} + \cdots - 5.24442u - 0.431259 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.00233870u^{67} + 0.0101386u^{66} + \cdots - 11.2417u - 0.733090 \\ -0.00117955u^{67} + 0.0101386u^{66} + \cdots - 11.2417u - 0.733090 \\ -0.00117955u^{67} + 0.00620829u^{66} + \cdots - 4.63678u + 0.0616603 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.00491528u^{67} - 0.0262227u^{66} + \cdots + 25.2225u + 6.20953 \\ -0.000952899u^{67} + 0.00487972u^{66} + \cdots + 0.0569866u + 0.671964 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.00396238u^{67} - 0.0213429u^{66} + \cdots + 25.2795u + 6.88149 \\ -0.000952899u^{67} + 0.00487972u^{66} + \cdots + 0.0569866u + 0.671964 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.00373541u^{67} - 0.0186514u^{66} + \cdots + 30.2287u + 11.1920 \\ -0.000136580u^{67} + 0.000781749u^{66} + \cdots + 3.37713u + 0.340186 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.00276461u^{67} + 0.0125786u^{66} + \cdots - 47.0972u - 12.3994 \\ -0.0000159099u^{67} + 0.000183427u^{66} + \cdots - 47.0972u - 12.3994 \\ -0.0000159099u^{67} + 0.000183427u^{66} + \cdots + 31.7108u + 3.30930 \\ -0.00011402u^{67} + 0.00536595u^{66} + \cdots + 31.7108u + 3.30930 \\ -0.00011402u^{67} + 0.00536595u^{66} + \cdots + 0.703120u - 0.416678 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.00431587u^{67} + 0.0232128u^{66} + \cdots + 33.1103u + 8.26277$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{68} + 81u^{67} + \dots + 7054940u + 100489$
c_2, c_5	$u^{68} + 5u^{67} + \dots - 86u - 317$
c_3, c_{11}	$u^{68} - 23u^{66} + \dots + 2u + 1$
c_4	$u^{68} + 12u^{67} + \dots - 352006u + 2124268$
c_6, c_9	$u^{68} + 6u^{67} + \dots - 23u + 1$
	$u^{68} - 3u^{67} + \dots + 4608u - 512$
c ₈	$u^{68} + u^{67} + \dots + 30u - 4$
c_{10}	$u^{68} + 4u^{65} + \dots + 101u + 41$
c_{12}	$u^{68} - 15u^{67} + \dots + 4125551u - 99557$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{68} - 173y^{67} + \dots + 1338138438004y + 10098039121$
c_{2}, c_{5}	$y^{68} - 81y^{67} + \dots - 7054940y + 100489$
c_3, c_{11}	$y^{68} - 46y^{67} + \dots + 10y + 1$
c_4	$y^{68} + 72y^{67} + \dots + 70533073386900y + 4512514535824$
c_{6}, c_{9}	$y^{68} + 12y^{67} + \dots - 193y + 1$
	$y^{68} + 21y^{67} + \dots + 15597568y + 262144$
<i>c</i> ₈	$y^{68} - 3y^{67} + \dots + 100y + 16$
c_{10}	$y^{68} + 60y^{66} + \dots - 19877y + 1681$
c_{12}	$y^{68} - 59y^{67} + \dots - 745245389293y + 9911596249$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.871128 + 0.509881I		
a = -0.251428 - 0.802924I	-1.05916 - 0.94846I	0
b = 0.018453 + 0.953747I		
u = 0.871128 - 0.509881I		
a = -0.251428 + 0.802924I	-1.05916 + 0.94846I	0
b = 0.018453 - 0.953747I		
u = -0.544948 + 0.820477I		
a = -0.774935 + 0.270468I	4.15929 - 0.82146I	0
b = -1.058330 + 0.233379I		
u = -0.544948 - 0.820477I		
a = -0.774935 - 0.270468I	4.15929 + 0.82146I	0
b = -1.058330 - 0.233379I		
u = 1.046280 + 0.158379I		
a = -0.05036 + 1.45147I	4.06606 + 4.41418I	0
b = 0.389019 + 0.679852I		
u = 1.046280 - 0.158379I		
a = -0.05036 - 1.45147I	4.06606 - 4.41418I	0
b = 0.389019 - 0.679852I		
u = -0.885188 + 0.133345I		
a = -0.609940 + 0.064726I	2.00126 + 7.10030I	-5.49116 - 6.13012I
b = -0.36252 + 1.60437I		
u = -0.885188 - 0.133345I		
a = -0.609940 - 0.064726I	2.00126 - 7.10030I	-5.49116 + 6.13012I
b = -0.36252 - 1.60437I		
u = 0.440543 + 0.709904I		
a = -0.925199 + 0.715716I	-0.315752 - 0.651012I	-5.42332 - 3.40225I
b = -0.563366 + 0.659728I		
u = 0.440543 - 0.709904I		
a = -0.925199 - 0.715716I	-0.315752 + 0.651012I	-5.42332 + 3.40225I
b = -0.563366 - 0.659728I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.800978 + 0.142572I		
a = 0.366163 - 0.014633I	-1.37004 - 1.79460I	-8.18525 + 5.97883I
b = 0.69817 + 1.28569I		
u = 0.800978 - 0.142572I		
a = 0.366163 + 0.014633I	-1.37004 + 1.79460I	-8.18525 - 5.97883I
b = 0.69817 - 1.28569I		
u = -0.188648 + 0.784530I		
a = 1.113550 + 0.741221I	0.44809 + 2.22556I	-2.79693 - 5.37400I
b = 0.823409 + 0.516607I		
u = -0.188648 - 0.784530I		
a = 1.113550 - 0.741221I	0.44809 - 2.22556I	-2.79693 + 5.37400I
b = 0.823409 - 0.516607I		
u = -1.042970 + 0.640059I		
a = 0.252793 - 0.689948I	2.60331 + 6.17342I	0
b = 0.583572 + 0.375949I		
u = -1.042970 - 0.640059I		
a = 0.252793 + 0.689948I	2.60331 - 6.17342I	0
b = 0.583572 - 0.375949I		
u = -0.588960 + 0.496925I		
a = -0.393461 + 1.028770I	1.71068 - 2.22744I	-2.20317 + 3.51892I
b = 0.135056 + 0.879028I		
u = -0.588960 - 0.496925I		
a = -0.393461 - 1.028770I	1.71068 + 2.22744I	-2.20317 - 3.51892I
b = 0.135056 - 0.879028I		
u = 0.558593 + 0.526304I		
a = -0.860916 - 0.104097I	-0.41361 - 1.51672I	-4.11702 + 3.50590I
b = -0.292526 + 0.378622I		
u = 0.558593 - 0.526304I		
a = -0.860916 + 0.104097I	-0.41361 + 1.51672I	-4.11702 - 3.50590I
b = -0.292526 - 0.378622I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.698428 + 0.225559I		
a = -0.06120 + 1.66744I	1.94783 - 2.44722I	0.47230 - 2.86417I
b = 0.059794 + 0.692238I		
u = -0.698428 - 0.225559I		
a = -0.06120 - 1.66744I	1.94783 + 2.44722I	0.47230 + 2.86417I
b = 0.059794 - 0.692238I		
u = -1.149490 + 0.645257I		
a = -0.244780 + 0.273572I	2.21731 - 2.65488I	0
b = 0.201289 + 0.916767I		
u = -1.149490 - 0.645257I		
a = -0.244780 - 0.273572I	2.21731 + 2.65488I	0
b = 0.201289 - 0.916767I		
u = -0.734034 + 1.108720I		
a = -0.095793 - 0.323746I	1.83474 - 2.80065I	0
b = -0.023606 + 0.235560I		
u = -0.734034 - 1.108720I		
a = -0.095793 + 0.323746I	1.83474 + 2.80065I	0
b = -0.023606 - 0.235560I		
u = -0.537572 + 0.292817I		
a = 1.59768 - 1.26454I	1.85960 + 4.70737I	-2.52304 - 10.70995I
b = 0.424708 - 0.016900I		
u = -0.537572 - 0.292817I		
a = 1.59768 + 1.26454I	1.85960 - 4.70737I	-2.52304 + 10.70995I
b = 0.424708 + 0.016900I		
u = -0.753527 + 1.166220I		
a = -0.762293 - 0.164274I	1.79765 + 10.38310I	0
b = -0.822320 + 0.177075I		
u = -0.753527 - 1.166220I		
a = -0.762293 + 0.164274I	1.79765 - 10.38310I	0
b = -0.822320 - 0.177075I		

	Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
- -	u = 0.474569 + 0.362132I		
	a = -1.72365 + 0.23562I	-0.87147 - 2.49560I	-8.19061 + 9.19024I
	b = -0.443265 + 0.309260I		
-	u = 0.474569 - 0.362132I		
	a = -1.72365 - 0.23562I	-0.87147 + 2.49560I	-8.19061 - 9.19024I
_	b = -0.443265 - 0.309260I		
	u = 0.830722 + 1.137770I		
	a = 0.613745 - 0.111412I	-2.05341 - 4.26526I	0
_	b = 0.732990 + 0.363720I		
	u = 0.830722 - 1.137770I		
	a = 0.613745 + 0.111412I	-2.05341 + 4.26526I	0
	b = 0.732990 - 0.363720I		
	u = -0.429455 + 0.392611I		
	a = 0.56873 - 1.67827I	3.56883 - 5.49597I	-0.35708 + 7.00581I
-	b = -0.460162 + 1.313910I		
	u = -0.429455 - 0.392611I		
	a = 0.56873 + 1.67827I	3.56883 + 5.49597I	-0.35708 - 7.00581I
-	b = -0.460162 - 1.313910I		
	u = -1.43036		
	a = -0.0534743	-3.29592	0
-	b = -1.45724		
	u = 1.45239 + 0.17220I		
	a = -0.751230 - 0.429370I	-6.96130 - 1.46154I	0
-	b = -2.36893 - 0.07099I		
	u = 1.45239 - 0.17220I	0.00400 . 4 401717	
	a = -0.751230 + 0.429370I	-6.96130 + 1.46154I	0
-	b = -2.36893 + 0.07099I		
	u = 1.46944		
	a = 0.392688	-3.78770	0
-	b = 1.69276		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
-7.71397 + 4.42312I	0
-7.71397 - 4.42312I	0
-5.50713 - 5.89389I	0
-5.50713 + 5.89389I	0
-8.12749 + 4.22844I	0
-8.12749 - 4.22844I	0
-5.64912 - 6.82670I	0
-5.64912 + 6.82670I	0
-1.42607 + 0.01276I	-9.44279 + 0.81659I
-1.42607 - 0.01276I	-9.44279 - 0.81659I
	-7.71397 + 4.42312I $-7.71397 - 4.42312I$ $-5.50713 - 5.89389I$ $-5.50713 + 5.89389I$ $-8.12749 + 4.22844I$ $-8.12749 - 4.22844I$ $-5.64912 - 6.82670I$ $-5.64912 + 6.82670I$ $-1.42607 + 0.01276I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.70975 + 0.05552I		
a = -0.624502 - 0.582986I	-10.76850 + 2.56396I	0
b = -1.88329 - 0.29548I		
u = -1.70975 - 0.05552I		
a = -0.624502 + 0.582986I	-10.76850 - 2.56396I	0
b = -1.88329 + 0.29548I		
u = 1.71065 + 0.07105I		
a = 0.732714 - 0.538117I	-7.52248 - 8.09991I	0
b = 1.95223 - 0.29659I		
u = 1.71065 - 0.07105I		
a = 0.732714 + 0.538117I	-7.52248 + 8.09991I	0
b = 1.95223 + 0.29659I		
u = -1.74721 + 0.17347I		
a = 0.813534 - 0.514883I	-8.31422 + 4.53840I	0
b = 1.85421 - 0.43442I		
u = -1.74721 - 0.17347I		
a = 0.813534 + 0.514883I	-8.31422 - 4.53840I	0
b = 1.85421 + 0.43442I		
u = 1.72573 + 0.38376I		
a = 0.702168 + 0.550948I	-6.2957 - 16.2757I	0
b = 2.08835 + 0.55587I		
u = 1.72573 - 0.38376I		
a = 0.702168 - 0.550948I	-6.2957 + 16.2757I	0
b = 2.08835 - 0.55587I		
u = -1.73754 + 0.38845I		
a = -0.676834 + 0.471111I	-10.3272 + 10.1790I	0
b = -2.07579 + 0.51144I		
u = -1.73754 - 0.38845I		
a = -0.676834 - 0.471111I	-10.3272 - 10.1790I	0
b = -2.07579 - 0.51144I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.186071 + 0.088469I		
a = 2.84558 + 5.76663I	6.79008 + 4.75733I	3.79704 - 5.76566I
b = -0.584481 + 0.792155I		
u = 0.186071 - 0.088469I		
a = 2.84558 - 5.76663I	6.79008 - 4.75733I	3.79704 + 5.76566I
b = -0.584481 - 0.792155I		
u = 1.79378 + 0.03621I		
a = -0.667026 - 0.311610I	-8.03735 - 1.00540I	0
b = -1.61634 - 0.35448I		
u = 1.79378 - 0.03621I		
a = -0.667026 + 0.311610I	-8.03735 + 1.00540I	0
b = -1.61634 + 0.35448I		
u = 1.80621 + 0.03283I		
a = 0.404169 - 0.562395I	-4.91628 + 2.38789I	0
b = 1.88508 - 0.20648I		
u = 1.80621 - 0.03283I		
a = 0.404169 + 0.562395I	-4.91628 - 2.38789I	0
b = 1.88508 + 0.20648I		
u = 1.82029 + 0.48597I		
a = 0.530834 + 0.328063I	-5.36733 - 3.53838I	0
b = 2.04333 + 0.51887I		
u = 1.82029 - 0.48597I		
a = 0.530834 - 0.328063I	-5.36733 + 3.53838I	0
b = 2.04333 - 0.51887I		

II.
$$I_2^u = \langle 56939u^{20} + 161982u^{19} + \dots + 59123b + 87648, \ 3.00 \times 10^5u^{20} + 6.46 \times 10^5u^{19} + \dots + 5.91 \times 10^4a + 5.88 \times 10^5, \ u^{21} + 2u^{20} + \dots + 4u - 1 \rangle$$

(i) Arc colorings

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

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

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

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

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

$$a_{10} = \begin{pmatrix} -5.06906u^{20} - 10.9247u^{19} + \dots + 10.8398u - 9.95379 \\ -0.963060u^{20} - 2.73975u^{19} + \dots - 0.169291u - 1.48247 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -5.06906u^{20} - 10.9247u^{19} + \dots + 10.8398u - 9.95379 \\ -0.775925u^{20} - 2.17956u^{19} + \dots + 1.75331u - 0.695854 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -4.90401u^{20} - 9.43501u^{19} + \dots + 9.38474u - 3.34662 \\ 0.681072u^{20} + 1.87392u^{19} + \dots + 4.01839u + 1.44754 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -4.22294u^{20} - 7.56108u^{19} + \dots + 13.4031u - 1.89907 \\ 0.681072u^{20} + 1.87392u^{19} + \dots + 4.01839u + 1.44754 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -3.58847u^{20} - 10.1130u^{19} + \dots + 43.2427u - 15.5705 \\ 3.67141u^{20} + 2.70835u^{19} + \dots + 18.6702u - 4.15388 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 9.71688u^{20} + 17.8748u^{19} + \dots - 12.3073u + 12.5600 \\ 0.519409u^{20} + 1.18825u^{19} + \dots + 18.4028u + 4.61670 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1.21986u^{20} + 0.289397u^{19} + \dots + 10.6943u + 1.02261 \\ 0.313381u^{20} + 2.64743u^{19} + \dots + 10.618761u + 1.59928 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{13845}{59123}u^{20} - \frac{277255}{59123}u^{19} + \dots - \frac{4783788}{59123}u + \frac{1378541}{59123}u^{19} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{21} - 20u^{20} + \dots + 16u - 1$
c_2	$u^{21} + 2u^{20} + \dots + 4u - 1$
c_3	$u^{21} + u^{20} + \dots + 4u - 1$
c_4	$u^{21} + u^{20} + \dots - 94u - 29$
<i>C</i> ₅	$u^{21} - 2u^{20} + \dots + 4u + 1$
	$u^{21} - 7u^{20} + \dots - u + 1$
	$u^{21} + u^{19} + \dots + 6u + 1$
<i>c</i> ₈	$u^{21} + u^{19} + \dots + 2u - 1$
<i>c</i> ₉	$u^{21} + 7u^{20} + \dots - u - 1$
c_{10}	$u^{21} + u^{20} + \dots + u + 1$
c_{11}	$u^{21} - u^{20} + \dots + 4u + 1$
c_{12}	$u^{21} - 4u^{20} + \dots + 117u + 29$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{21} - 24y^{20} + \dots + 36y - 1$
c_2, c_5	$y^{21} - 20y^{20} + \dots + 16y - 1$
c_3,c_{11}	$y^{21} - 17y^{20} + \dots + 10y - 1$
c_4	$y^{21} + 17y^{20} + \dots - 14364y - 841$
c_6, c_9	$y^{21} + 13y^{20} + \dots - 7y - 1$
	$y^{21} + 2y^{20} + \dots + 28y - 1$
c ₈	$y^{21} + 2y^{20} + \dots - 16y - 1$
c_{10}	$y^{21} + 9y^{20} + \dots + y - 1$
c_{12}	$y^{21} - 10y^{20} + \dots + 5685y - 841$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.894035 + 0.426850I		
a = -0.519136 + 0.655370I	3.24028 + 7.57467I	0.82215 - 8.81507I
b = -0.26891 - 1.39537I		
u = -0.894035 - 0.426850I		
a = -0.519136 - 0.655370I	3.24028 - 7.57467I	0.82215 + 8.81507I
b = -0.26891 + 1.39537I		
u = -0.858392 + 0.405679I		
a = -0.462130 + 1.325320I	6.04821 - 3.54076I	0.72244 + 2.01321I
b = -0.144594 - 0.205272I		
u = -0.858392 - 0.405679I		
a = -0.462130 - 1.325320I	6.04821 + 3.54076I	0.72244 - 2.01321I
b = -0.144594 + 0.205272I		
u = 0.899032 + 0.074143I		
a = -0.325588 - 1.368960I	1.60454 - 2.95721I	-6.36375 + 7.33949I
b = -0.179975 - 0.662985I		
u = 0.899032 - 0.074143I		
a = -0.325588 + 1.368960I	1.60454 + 2.95721I	-6.36375 - 7.33949I
b = -0.179975 + 0.662985I		
u = -1.072430 + 0.326023I		
a = 0.271074 - 1.129650I	5.27529 + 6.34734I	0.57668 - 6.47209I
b = 0.251948 - 1.072700I		
u = -1.072430 - 0.326023I		
a = 0.271074 + 1.129650I	5.27529 - 6.34734I	0.57668 + 6.47209I
b = 0.251948 + 1.072700I		
u = 0.685692 + 0.369999I		
a = 0.279617 + 0.898848I	-0.58771 - 1.41759I	1.42036 + 5.33647I
b = -0.38782 - 1.43241I		
u = 0.685692 - 0.369999I		
a = 0.279617 - 0.898848I	-0.58771 + 1.41759I	1.42036 - 5.33647I
b = -0.38782 + 1.43241I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.141080 + 0.631558I		
a = -1.00212 + 1.21363I	-0.39852 - 1.44153I	-7.16101 + 3.82962I
b = -0.429943 + 0.543747I		
u = 0.141080 - 0.631558I		
a = -1.00212 - 1.21363I	-0.39852 + 1.44153I	-7.16101 - 3.82962I
b = -0.429943 - 0.543747I		
u = 1.42200		
a = 0.221842	-4.94331	-8.42450
b = 1.73232		
u = -1.14688 + 0.98533I		
a = 0.183692 - 0.275325I	2.40941 - 2.93010I	12.0576 + 13.5784I
b = -0.147350 - 0.800918I		
u = -1.14688 - 0.98533I		
a = 0.183692 + 0.275325I	2.40941 + 2.93010I	12.0576 - 13.5784I
b = -0.147350 + 0.800918I		
u = 0.388530 + 0.117903I		
a = -0.32404 + 3.02809I	2.06332 + 3.63257I	-2.19231 - 4.68251I
b = 0.367355 + 0.666272I		
u = 0.388530 - 0.117903I		
a = -0.32404 - 3.02809I	2.06332 - 3.63257I	-2.19231 + 4.68251I
b = 0.367355 - 0.666272I		
u = -1.60153 + 0.15283I		
a = 0.846635 - 0.626675I	-7.02711 + 4.47993I	-0.55876 - 3.70470I
b = 2.07762 - 0.56851I		
u = -1.60153 - 0.15283I		
a = 0.846635 + 0.626675I	-7.02711 - 4.47993I	-0.55876 + 3.70470I
b = 2.07762 + 0.56851I		
u = 1.74793 + 0.28216I		
a = -0.558930 - 0.427389I	-5.22125 - 3.17687I	-5.61119 - 1.61845I
b = -2.00449 - 0.42484I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.74793 - 0.28216I		
a = -0.558930 + 0.427389I	-5.22125 + 3.17687I	-5.61119 + 1.61845I
b = -2.00449 + 0.42484I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{21} - 20u^{20} + \dots + 16u - 1)$ $\cdot (u^{68} + 81u^{67} + \dots + 7054940u + 100489)$
c_2	$(u^{21} + 2u^{20} + \dots + 4u - 1)(u^{68} + 5u^{67} + \dots - 86u - 317)$
<i>C</i> 3	$(u^{21} + u^{20} + \dots + 4u - 1)(u^{68} - 23u^{66} + \dots + 2u + 1)$
C ₄	$(u^{21} + u^{20} + \dots - 94u - 29)(u^{68} + 12u^{67} + \dots - 352006u + 2124268)$
<i>C</i> ₅	$(u^{21} - 2u^{20} + \dots + 4u + 1)(u^{68} + 5u^{67} + \dots - 86u - 317)$
<i>c</i> ₆	$(u^{21} - 7u^{20} + \dots - u + 1)(u^{68} + 6u^{67} + \dots - 23u + 1)$
C ₇	$(u^{21} + u^{19} + \dots + 6u + 1)(u^{68} - 3u^{67} + \dots + 4608u - 512)$
<i>C</i> ₈	$(u^{21} + u^{19} + \dots + 2u - 1)(u^{68} + u^{67} + \dots + 30u - 4)$
<i>c</i> ₉	$(u^{21} + 7u^{20} + \dots - u - 1)(u^{68} + 6u^{67} + \dots - 23u + 1)$
c_{10}	$(u^{21} + u^{20} + \dots + u + 1)(u^{68} + 4u^{65} + \dots + 101u + 41)$
c_{11}	$(u^{21} - u^{20} + \dots + 4u + 1)(u^{68} - 23u^{66} + \dots + 2u + 1)$
c_{12}	$(u^{21} - 4u^{20} + \dots + 117u + 29)$ $\cdot (u^{68} - 15u^{67} + \dots + 4125551u - 99557)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{21} - 24y^{20} + \dots + 36y - 1)$ $\cdot (y^{68} - 173y^{67} + \dots + 1338138438004y + 10098039121)$
c_2, c_5	$(y^{21} - 20y^{20} + \dots + 16y - 1)$ $\cdot (y^{68} - 81y^{67} + \dots - 7054940y + 100489)$
c_3,c_{11}	$(y^{21} - 17y^{20} + \dots + 10y - 1)(y^{68} - 46y^{67} + \dots + 10y + 1)$
c_4	$(y^{21} + 17y^{20} + \dots - 14364y - 841)$ $\cdot (y^{68} + 72y^{67} + \dots + 70533073386900y + 4512514535824)$
c_6, c_9	$(y^{21} + 13y^{20} + \dots - 7y - 1)(y^{68} + 12y^{67} + \dots - 193y + 1)$
c_7	$(y^{21} + 2y^{20} + \dots + 28y - 1)$ $\cdot (y^{68} + 21y^{67} + \dots + 15597568y + 262144)$
c_8	$(y^{21} + 2y^{20} + \dots - 16y - 1)(y^{68} - 3y^{67} + \dots + 100y + 16)$
c_{10}	$(y^{21} + 9y^{20} + \dots + y - 1)(y^{68} + 60y^{66} + \dots - 19877y + 1681)$
c_{12}	$(y^{21} - 10y^{20} + \dots + 5685y - 841)$ $\cdot (y^{68} - 59y^{67} + \dots - 745245389293y + 9911596249)$