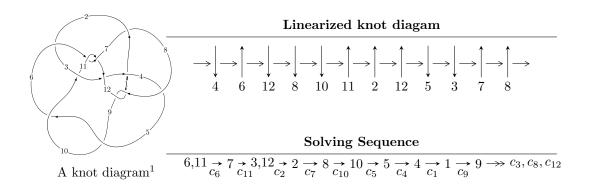
$12n_{0828} \ (K12n_{0828})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 4.86488 \times 10^{164} u^{74} + 2.61870 \times 10^{164} u^{73} + \dots + 7.00921 \times 10^{164} b + 5.62454 \times 10^{165}, \\ &1.09347 \times 10^{165} u^{74} + 1.00292 \times 10^{165} u^{73} + \dots + 2.10276 \times 10^{165} a + 1.21416 \times 10^{166}, \\ &u^{75} - 26u^{73} + \dots - 29u - 11 \rangle \\ I_2^u &= \langle 3565784u^{20} + 1758543u^{19} + \dots + 4587301b + 16185776, \\ &- 848187u^{20} + 33456238u^{19} + \dots + 22936505a - 154067073, \ u^{21} + u^{20} + \dots - 6u + 5 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 96 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.
$$I_1^u = \langle 4.86 \times 10^{164} u^{74} + 2.62 \times 10^{164} u^{73} + \cdots + 7.01 \times 10^{164} b + 5.62 \times 10^{165}, \ 1.09 \times 10^{165} u^{74} + 1.00 \times 10^{165} u^{73} + \cdots + 2.10 \times 10^{165} a + 1.21 \times 10^{166}, \ u^{75} - 26u^{73} + \cdots - 29u - 11 \rangle$$

(i) Arc colorings

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.520016u^{74} - 0.476954u^{73} + \dots + 17.4523u - 5.77412 \\ -0.694069u^{74} - 0.373608u^{73} + \dots - 32.7082u - 8.02450 \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} 0.174054u^{74} - 0.103346u^{73} + \dots + 50.1605u + 2.25038 \\ -0.694069u^{74} - 0.373608u^{73} + \dots - 32.7082u - 8.02450 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.492874u^{74} + 0.989732u^{73} + \dots + 37.5192u + 6.43908 \\ -0.533362u^{74} - 0.574794u^{73} + \dots - 25.1238u - 7.74220 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.232330u^{74} + 0.157784u^{73} + \dots + 85.2464u + 7.12576 \\ 0.332393u^{74} + 0.264914u^{73} + \dots + 8.68473u + 1.62379 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.118936u^{74} - 0.271370u^{73} + \dots + 78.1808u + 7.39601 \\ 0.581180u^{74} + 0.461009u^{73} + \dots + 26.2919u + 6.63202 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -0.0260069u^{74} - 0.241627u^{73} + \dots + 43.5597u - 0.0222318 \\ -0.483810u^{74} - 0.266665u^{73} + \dots - 18.8593u - 4.86120 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.608923u^{74} - 0.434802u^{73} + \dots - 18.8593u - 4.86120 \\ -0.433540u^{74} - 0.348757u^{73} + \dots - 25.2954u - 5.66632 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.194330u^{74} + 0.575188u^{73} + \dots + 19.9609u + 1.00031 \\ -0.583866u^{74} - 0.672134u^{73} + \dots + 19.9609u + 1.00031 \\ -0.583866u^{74} - 0.672134u^{73} + \dots + 27.3764u - 8.62099 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-3.00721u^{74} 1.40524u^{73} + \cdots 209.477u 50.8854$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{75} + 4u^{74} + \dots + 19778u + 1511$
c_2	$u^{75} - 7u^{74} + \dots + 18u + 1$
c_3	$u^{75} - 2u^{74} + \dots - 264568u + 145247$
C4	$u^{75} + u^{74} + \dots - 4794u - 103$
c_5, c_9	$u^{75} - 3u^{74} + \dots + 4690u - 3812$
c_6, c_{11}	$u^{75} - 26u^{73} + \dots - 29u + 11$
c_7	$u^{75} + u^{74} + \dots + 1531u - 221$
c_8, c_{12}	$u^{75} - 5u^{74} + \dots + 6535u + 1379$
c_{10}	$u^{75} - 2u^{74} + \dots - 27u + 7$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{75} + 72y^{74} + \dots - 34177216y - 2283121$
c_2	$y^{75} + 11y^{74} + \dots + 92y - 1$
c_3	$y^{75} + 36y^{74} + \dots + 220857023174y - 21096691009$
c_4	$y^{75} + 85y^{74} + \dots + 17227620y - 10609$
c_5, c_9	$y^{75} - 45y^{74} + \dots + 350201676y - 14531344$
c_6, c_{11}	$y^{75} - 52y^{74} + \dots + 6627y - 121$
	$y^{75} + 37y^{74} + \dots + 884919y - 48841$
c_8, c_{12}	$y^{75} - 87y^{74} + \dots + 99190065y - 1901641$
c_{10}	$y^{75} + 8y^{74} + \dots - 2407y - 49$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.013866 + 0.992612I		
a = 0.692135 + 0.718908I	-6.17619 + 2.37907I	0
b = 0.400349 + 1.084530I		
u = -0.013866 - 0.992612I		
a = 0.692135 - 0.718908I	-6.17619 - 2.37907I	0
b = 0.400349 - 1.084530I		
u = 0.939254 + 0.315999I		
a = 0.018888 + 0.438631I	-1.07144 + 2.44545I	0
b = -0.664173 + 0.848941I		
u = 0.939254 - 0.315999I		
a = 0.018888 - 0.438631I	-1.07144 - 2.44545I	0
b = -0.664173 - 0.848941I		
u = -0.938498 + 0.408238I		
a = 0.13100 + 1.90136I	-1.29527 - 3.07415I	0
b = -0.330038 + 0.911612I		
u = -0.938498 - 0.408238I		
a = 0.13100 - 1.90136I	-1.29527 + 3.07415I	0
b = -0.330038 - 0.911612I		
u = -0.960972 + 0.048035I		
a = -0.544278 + 1.052270I	1.079070 - 0.291978I	0
b = 0.903732 + 0.646873I		
u = -0.960972 - 0.048035I		
a = -0.544278 - 1.052270I	1.079070 + 0.291978I	0
b = 0.903732 - 0.646873I		
u = -0.966822 + 0.378367I		
a = 1.94521 - 0.03260I	2.57495 - 7.43580I	0
b = -0.084333 + 0.363747I		
u = -0.966822 - 0.378367I		
a = 1.94521 + 0.03260I	2.57495 + 7.43580I	0
b = -0.084333 - 0.363747I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.034730 + 0.129185I		
a = 0.145476 - 0.953838I	5.36144 - 1.41166I	0
b = -0.87885 - 1.88423I		
u = -1.034730 - 0.129185I		
a = 0.145476 + 0.953838I	5.36144 + 1.41166I	0
b = -0.87885 + 1.88423I		
u = 0.907268 + 0.075300I		
a = 0.94549 - 2.12345I	-3.93565 + 1.98540I	0. + 3.06730I
b = -0.523555 - 0.950514I		
u = 0.907268 - 0.075300I		
a = 0.94549 + 2.12345I	-3.93565 - 1.98540I	0 3.06730I
b = -0.523555 + 0.950514I		
u = 1.110880 + 0.165795I		
a = -0.047261 - 0.317334I	5.56938 + 6.51079I	0
b = 2.14672 - 0.81505I		
u = 1.110880 - 0.165795I		
a = -0.047261 + 0.317334I	5.56938 - 6.51079I	0
b = 2.14672 + 0.81505I		
u = -1.160340 + 0.126685I		
a = 0.282949 + 0.314124I	2.25915 - 0.14325I	0
b = -0.837413 + 0.239299I		
u = -1.160340 - 0.126685I		
a = 0.282949 - 0.314124I	2.25915 + 0.14325I	0
b = -0.837413 - 0.239299I		
u = 0.206317 + 1.155090I		
a = -0.603459 + 0.707647I	-4.61919 - 3.44875I	0
b = -0.521027 + 0.818222I		
u = 0.206317 - 1.155090I		
a = -0.603459 - 0.707647I	-4.61919 + 3.44875I	0
b = -0.521027 - 0.818222I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.114000 + 0.368961I		
a = -1.019900 + 0.719651I	4.35958 + 4.55603I	0
b = 0.988836 + 0.744888I		
u = 1.114000 - 0.368961I		
a = -1.019900 - 0.719651I	4.35958 - 4.55603I	0
b = 0.988836 - 0.744888I		
u = 0.760290 + 0.301132I		
a = -1.63953 - 0.05711I	-3.59837 - 0.23339I	3.34922 - 1.64513I
b = -0.341483 + 0.350286I		
u = 0.760290 - 0.301132I		
a = -1.63953 + 0.05711I	-3.59837 + 0.23339I	3.34922 + 1.64513I
b = -0.341483 - 0.350286I		
u = -0.002744 + 1.189670I		
a = 0.701533 - 0.828624I	-0.08499 - 10.49950I	0
b = 0.653223 - 1.002770I		
u = -0.002744 - 1.189670I		
a = 0.701533 + 0.828624I	-0.08499 + 10.49950I	0
b = 0.653223 + 1.002770I		
u = 1.172170 + 0.305565I		
a = 0.523471 + 0.816282I	-1.80185 + 2.16906I	0
b = -0.132271 - 0.058421I		
u = 1.172170 - 0.305565I		
a = 0.523471 - 0.816282I	-1.80185 - 2.16906I	0
b = -0.132271 + 0.058421I		
u = 1.173800 + 0.362759I		
a = -0.378650 + 0.861125I	3.34164 + 4.17608I	0
b = 1.099170 + 0.869923I		
u = 1.173800 - 0.362759I		
a = -0.378650 - 0.861125I	3.34164 - 4.17608I	0
b = 1.099170 - 0.869923I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.052071 + 0.743666I		
a = -1.22281 - 1.12361I	-6.07542 + 3.12385I	-2.56319 - 4.01706I
b = -0.525972 - 1.114410I		
u = -0.052071 - 0.743666I		
a = -1.22281 + 1.12361I	-6.07542 - 3.12385I	-2.56319 + 4.01706I
b = -0.525972 + 1.114410I		
u = 0.647746 + 0.356319I		
a = -0.52809 + 1.45131I	3.40846 + 5.43996I	-0.90178 - 5.14570I
b = 1.33036 + 0.69475I		
u = 0.647746 - 0.356319I		
a = -0.52809 - 1.45131I	3.40846 - 5.43996I	-0.90178 + 5.14570I
b = 1.33036 - 0.69475I		
u = -1.237780 + 0.300983I		
a = -0.68099 - 1.37162I	7.74101 - 8.12655I	0
b = 0.955357 - 0.902724I		
u = -1.237780 - 0.300983I		
a = -0.68099 + 1.37162I	7.74101 + 8.12655I	0
b = 0.955357 + 0.902724I		_
u = -0.404055 + 0.594522I		
a = 0.79451 - 1.92548I	1.03252 + 3.60544I	-4.06380 - 1.82140I
b = 0.006207 - 1.108050I		
u = -0.404055 - 0.594522I	1 00050 0 005447	4.00000 + 1.001404
a = 0.79451 + 1.92548I	1.03252 - 3.60544I	-4.06380 + 1.82140I
b = 0.006207 + 1.108050I $u = 0.686004$		
	0.50004	12.0500
a = 1.77921	-2.50904	-13.2560
b = -1.18115 $u = -1.337960 + 0.048610I$		
	C F9F70 1 1077F	
a = 0.085328 + 0.223266I	6.53570 - 1.10775I	0
b = 0.89019 + 1.54950I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.337960 - 0.048610I		
a = 0.085328 - 0.223266I	6.53570 + 1.10775I	0
b = 0.89019 - 1.54950I		
u = -1.278100 + 0.422698I		
a = 0.395219 + 1.012020I	-2.27515 - 7.48919I	0
b = -1.09039 + 1.47215I		
u = -1.278100 - 0.422698I		
a = 0.395219 - 1.012020I	-2.27515 + 7.48919I	0
b = -1.09039 - 1.47215I		
u = -0.630165 + 0.173633I		
a = 1.17934 - 1.10273I	4.27365 - 0.04437I	3.14115 + 2.61297I
b = -0.690665 + 0.543583I		
u = -0.630165 - 0.173633I		
a = 1.17934 + 1.10273I	4.27365 + 0.04437I	3.14115 - 2.61297I
b = -0.690665 - 0.543583I		
u = 0.201905 + 0.589482I		
a = 0.41957 - 1.35572I	1.71568 - 0.87377I	-4.45101 - 0.59244I
b = 0.678636 - 1.018540I		
u = 0.201905 - 0.589482I		
a = 0.41957 + 1.35572I	1.71568 + 0.87377I	-4.45101 + 0.59244I
b = 0.678636 + 1.018540I		
u = 1.255700 + 0.619721I		
a = 0.150657 - 0.302176I	-1.71673 + 3.48360I	0
b = -0.850030 - 0.371842I		
u = 1.255700 - 0.619721I		
a = 0.150657 + 0.302176I	-1.71673 - 3.48360I	0
b = -0.850030 + 0.371842I		
u = 1.373600 + 0.302564I		
a = 0.148834 - 0.958574I	11.26350 + 2.23040I	0
b = -0.831950 - 0.610118I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.373600 - 0.302564I		
a = 0.148834 + 0.958574I	11.26350 - 2.23040I	0
b = -0.831950 + 0.610118I		
u = 1.277590 + 0.602915I		
a = 0.361233 - 1.084430I	-1.23702 + 9.55268I	0
b = -1.00616 - 1.06220I		
u = 1.277590 - 0.602915I		
a = 0.361233 + 1.084430I	-1.23702 - 9.55268I	0
b = -1.00616 + 1.06220I		
u = -0.53023 + 1.32146I		
a = -0.371566 + 0.232025I	4.94966 + 2.13138I	0
b = -0.602848 - 0.069339I		
u = -0.53023 - 1.32146I		
a = -0.371566 - 0.232025I	4.94966 - 2.13138I	0
b = -0.602848 + 0.069339I		
u = -1.33869 + 0.49079I		
a = -0.297532 - 0.830875I	-2.01665 - 7.67344I	0
b = 1.12359 - 1.40728I		
u = -1.33869 - 0.49079I		
a = -0.297532 + 0.830875I	-2.01665 + 7.67344I	0
b = 1.12359 + 1.40728I		
u = 1.43679 + 0.09756I		
a = -0.060747 + 0.750626I	7.07352 - 1.46642I	0
b = 0.00253 + 2.18189I		
u = 1.43679 - 0.09756I		
a = -0.060747 - 0.750626I	7.07352 + 1.46642I	0
b = 0.00253 - 2.18189I		
u = 1.04085 + 1.02337I		
a = 0.404301 + 0.100962I	3.77545 + 0.13140I	0
b = 0.686049 - 0.445349I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.04085 - 1.02337I		
a = 0.404301 - 0.100962I	3.77545 - 0.13140I	0
b = 0.686049 + 0.445349I		
u = -0.520472		
a = -3.56024	-2.81755	-5.84520
b = -0.196479		
u = 1.37763 + 0.57274I		
a = -0.327901 + 1.049300I	4.2230 + 16.6469I	0
b = 1.16712 + 1.26375I		
u = 1.37763 - 0.57274I		
a = -0.327901 - 1.049300I	4.2230 - 16.6469I	0
b = 1.16712 - 1.26375I		
u = -1.29659 + 0.76159I		
a = -0.040832 - 0.596066I	0.41911 - 3.99968I	0
b = 0.645843 - 0.482141I		
u = -1.29659 - 0.76159I		
a = -0.040832 + 0.596066I	0.41911 + 3.99968I	0
b = 0.645843 + 0.482141I		
u = -1.37317 + 0.63897I		
a = 0.030652 + 0.763246I	8.47631 - 9.19794I	0
b = -1.163710 + 0.673853I		
u = -1.37317 - 0.63897I		
a = 0.030652 - 0.763246I	8.47631 + 9.19794I	0
b = -1.163710 - 0.673853I		
u = 0.399944 + 0.225942I		
a = -0.97127 + 2.25690I	3.42078 + 5.42017I	-0.67147 - 4.81273I
b = 1.265320 + 0.451196I		
u = 0.399944 - 0.225942I		
a = -0.97127 - 2.25690I	3.42078 - 5.42017I	-0.67147 + 4.81273I
b = 1.265320 - 0.451196I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.047641 + 0.411386I		
a = 1.018950 - 0.899310I	-0.012233 - 1.006120I	-0.14669 + 6.62242I
b = 0.382640 - 0.474799I		
u = -0.047641 - 0.411386I		
a = 1.018950 + 0.899310I	-0.012233 + 1.006120I	-0.14669 - 6.62242I
b = 0.382640 + 0.474799I		
u = -0.167122		
a = -8.32002	-2.84829	-2.66050
b = -0.479306		
u = -1.79051 + 0.67497I		
a = 0.228770 - 0.140811I	4.72272 + 3.49376I	0
b = 0.177471 + 0.154132I		
u = -1.79051 - 0.67497I		
a = 0.228770 + 0.140811I	4.72272 - 3.49376I	0
b = 0.177471 - 0.154132I		

$$II. \\ I_2^u = \langle 3.57 \times 10^6 u^{20} + 1.76 \times 10^6 u^{19} + \dots + 4.59 \times 10^6 b + 1.62 \times 10^7, \ -8.48 \times 10^5 u^{20} + 3.35 \times 10^7 u^{19} + \dots + 2.29 \times 10^7 a - 1.54 \times 10^8, \ u^{21} + u^{20} + \dots - 6u + 5 \rangle$$

(i) Arc colorings

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.0369798u^{20} - 1.45865u^{19} + \dots - 13.1245u + 6.71711 \\ -0.777316u^{20} - 0.383350u^{19} + \dots + 6.41390u - 3.52839 \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} 0.814296u^{20} - 1.07530u^{19} + \dots - 19.5384u + 10.2455 \\ -0.777316u^{20} - 0.383350u^{19} + \dots + 6.41390u - 3.52839 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.252921u^{20} - 0.758060u^{19} + \dots - 2.49621u + 5.84126 \\ -0.495626u^{20} - 0.795075u^{19} + \dots + 1.93899u + 0.815101 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.860543u^{20} + 1.73551u^{19} + \dots + 11.3000u - 9.27095 \\ 0.326407u^{20} + 0.988228u^{19} + \dots + 1.22673u - 2.67701 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.00585499u^{20} - 0.951995u^{19} + \dots - 14.0920u + 3.66552 \\ 0.210010u^{20} + 0.171345u^{19} + \dots + 0.699044u - 2.11466 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.965535u^{20} - 1.09140u^{19} + \dots - 22.6790u + 10.0385 \\ -0.611923u^{20} - 0.730373u^{19} + \dots + 4.87009u - 3.01351 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.244683u^{20} - 0.311053u^{19} + \dots + 2.38142u + 3.17549 \\ -0.128348u^{20} - 0.518938u^{19} + \dots + 0.669517u + 2.97935 \\ -0.534291u^{20} - 0.564907u^{19} + \dots + 0.669517u + 2.97935 \\ -0.534291u^{20} - 0.622926u^{19} + \dots + 2.08439u - 0.234950 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{2314838}{4587301}u^{20} - \frac{20496911}{4587301}u^{19} + \dots - \frac{242100829}{4587301}u + \frac{93801989}{4587301}u$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{21} - 5u^{20} + \dots - 3u - 1$
c_2	$u^{21} + 5u^{19} + \dots + u - 1$
c_3	$u^{21} - 3u^{20} + \dots + 47u + 43$
c_4	$u^{21} + 6u^{19} + \dots + 7u + 1$
<i>C</i> 5	$u^{21} - 9u^{19} + \dots - 10u - 4$
c_6	$u^{21} + u^{20} + \dots - 6u + 5$
	$u^{21} + 8u^{19} + \dots - 6u - 7$
C ₈	$u^{21} - 8u^{19} + \dots + 4u - 1$
<i>c</i> ₉	$u^{21} - 9u^{19} + \dots - 10u + 4$
c_{10}	$u^{21} - u^{20} + \dots + 4u - 1$
c_{11}	$u^{21} - u^{20} + \dots - 6u - 5$
c_{12}	$u^{21} - 8u^{19} + \dots + 4u + 1$
	1

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{21} + 11y^{20} + \dots + 11y - 1$
c_2	$y^{21} + 10y^{20} + \dots - 5y - 1$
<i>c</i> ₃	$y^{21} + 27y^{20} + \dots + 11153y - 1849$
c_4	$y^{21} + 12y^{20} + \dots - 17y - 1$
c_5, c_9	$y^{21} - 18y^{20} + \dots + 268y - 16$
c_6, c_{11}	$y^{21} - 17y^{20} + \dots + 226y - 25$
c_7	$y^{21} + 16y^{20} + \dots - 370y - 49$
c_8, c_{12}	$y^{21} - 16y^{20} + \dots - 20y - 1$
c_{10}	$y^{21} + 3y^{20} + \dots - 4y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.001020 + 0.262420I		
a = -0.921736 - 0.575279I	4.36516 - 6.59975I	1.05252 + 8.07459I
b = 1.64460 - 0.25263I		
u = -1.001020 - 0.262420I		
a = -0.921736 + 0.575279I	4.36516 + 6.59975I	1.05252 - 8.07459I
b = 1.64460 + 0.25263I		
u = -0.137847 + 0.949067I		
a = -0.852631 - 0.775856I	-7.38286 + 2.58162I	-9.14346 - 2.28449I
b = -0.503361 - 1.102010I		
u = -0.137847 - 0.949067I		
a = -0.852631 + 0.775856I	-7.38286 - 2.58162I	-9.14346 + 2.28449I
b = -0.503361 + 1.102010I		
u = 0.933976 + 0.190871I		
a = 0.53801 - 2.33404I	-3.93389 + 2.54020I	-4.26332 - 10.43284I
b = -0.338970 - 0.954357I		
u = 0.933976 - 0.190871I		
a = 0.53801 + 2.33404I	-3.93389 - 2.54020I	-4.26332 + 10.43284I
b = -0.338970 + 0.954357I		
u = -0.983637 + 0.420576I		
a = 0.057658 - 0.984094I	-0.01096 - 2.31575I	2.89116 + 3.13951I
b = 0.000605 - 0.667761I		
u = -0.983637 - 0.420576I		
a = 0.057658 + 0.984094I	-0.01096 + 2.31575I	2.89116 - 3.13951I
b = 0.000605 + 0.667761I		
u = 0.686384 + 0.325532I		
a = -2.10424 + 0.04632I	-4.27917 - 0.25341I	-10.22146 - 1.60946I
b = -0.267232 + 0.305573I		
u = 0.686384 - 0.325532I		
a = -2.10424 - 0.04632I	-4.27917 + 0.25341I	-10.22146 + 1.60946I
b = -0.267232 - 0.305573I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.753934		
a = 2.10025	-2.13830	10.8270
b = -0.921449		
u = 0.476315 + 0.539233I		
a = -0.302885 - 0.739305I	3.63985 + 1.20269I	0.11227 - 2.52581I
b = -0.310507 + 0.873261I		
u = 0.476315 - 0.539233I		
a = -0.302885 + 0.739305I	3.63985 - 1.20269I	0.11227 + 2.52581I
b = -0.310507 - 0.873261I		
u = 1.370620 + 0.034901I		
a = -0.117613 - 0.704260I	7.55445 + 0.17379I	6.36834 + 1.10559I
b = 0.02178 - 2.18523I		
u = 1.370620 - 0.034901I		
a = -0.117613 + 0.704260I	7.55445 - 0.17379I	6.36834 - 1.10559I
b = 0.02178 + 2.18523I		
u = -1.314580 + 0.500777I		
a = 0.351230 + 0.955966I	-3.61843 - 7.80961I	-5.08756 + 5.98059I
b = -1.05469 + 1.43008I		
u = -1.314580 - 0.500777I		
a = 0.351230 - 0.955966I	-3.61843 + 7.80961I	-5.08756 - 5.98059I
b = -1.05469 - 1.43008I		
u = 1.31032 + 0.74608I		
a = -0.083874 + 0.426133I	-1.66929 + 3.96809I	-0.71858 - 12.39534I
b = 0.761324 + 0.466956I		
u = 1.31032 - 0.74608I		
a = -0.083874 - 0.426133I	-1.66929 - 3.96809I	-0.71858 + 12.39534I
b = 0.761324 - 0.466956I		
u = -1.46356 + 0.64846I		
a = 0.185956 - 0.063411I	4.75936 + 3.16555I	4.09678 + 3.29546I
b = 0.507174 - 0.292801I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.46356 - 0.64846I		
a = 0.185956 + 0.063411I	4.75936 - 3.16555I	4.09678 - 3.29546I
b = 0.507174 + 0.292801I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{21} - 5u^{20} + \dots - 3u - 1)(u^{75} + 4u^{74} + \dots + 19778u + 1511)$
c_2	$(u^{21} + 5u^{19} + \dots + u - 1)(u^{75} - 7u^{74} + \dots + 18u + 1)$
<i>c</i> ₃	$(u^{21} - 3u^{20} + \dots + 47u + 43)(u^{75} - 2u^{74} + \dots - 264568u + 145247)$
C ₄	$(u^{21} + 6u^{19} + \dots + 7u + 1)(u^{75} + u^{74} + \dots - 4794u - 103)$
<i>C</i> ₅	$(u^{21} - 9u^{19} + \dots - 10u - 4)(u^{75} - 3u^{74} + \dots + 4690u - 3812)$
<i>C</i> ₆	$(u^{21} + u^{20} + \dots - 6u + 5)(u^{75} - 26u^{73} + \dots - 29u + 11)$
	$(u^{21} + 8u^{19} + \dots - 6u - 7)(u^{75} + u^{74} + \dots + 1531u - 221)$
<i>c</i> ₈	$(u^{21} - 8u^{19} + \dots + 4u - 1)(u^{75} - 5u^{74} + \dots + 6535u + 1379)$
<i>C</i> 9	$(u^{21} - 9u^{19} + \dots - 10u + 4)(u^{75} - 3u^{74} + \dots + 4690u - 3812)$
c_{10}	$(u^{21} - u^{20} + \dots + 4u - 1)(u^{75} - 2u^{74} + \dots - 27u + 7)$
c_{11}	$(u^{21} - u^{20} + \dots - 6u - 5)(u^{75} - 26u^{73} + \dots - 29u + 11)$
c_{12}	$(u^{21} - 8u^{19} + \dots + 4u + 1)(u^{75} - 5u^{74} + \dots + 6535u + 1379)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{21} + 11y^{20} + \dots + 11y - 1)$ $\cdot (y^{75} + 72y^{74} + \dots - 34177216y - 2283121)$
c_2	$(y^{21} + 10y^{20} + \dots - 5y - 1)(y^{75} + 11y^{74} + \dots + 92y - 1)$
c_3	$(y^{21} + 27y^{20} + \dots + 11153y - 1849)$ $\cdot (y^{75} + 36y^{74} + \dots + 220857023174y - 21096691009)$
c_4	$(y^{21} + 12y^{20} + \dots - 17y - 1)$ $\cdot (y^{75} + 85y^{74} + \dots + 17227620y - 10609)$
c_5, c_9	$(y^{21} - 18y^{20} + \dots + 268y - 16)$ $\cdot (y^{75} - 45y^{74} + \dots + 350201676y - 14531344)$
c_6, c_{11}	$(y^{21} - 17y^{20} + \dots + 226y - 25)(y^{75} - 52y^{74} + \dots + 6627y - 121)$
c ₇	$(y^{21} + 16y^{20} + \dots - 370y - 49)$ $\cdot (y^{75} + 37y^{74} + \dots + 884919y - 48841)$
c_8, c_{12}	$(y^{21} - 16y^{20} + \dots - 20y - 1)$ $\cdot (y^{75} - 87y^{74} + \dots + 99190065y - 1901641)$
c_{10}	$(y^{21} + 3y^{20} + \dots - 4y - 1)(y^{75} + 8y^{74} + \dots - 2407y - 49)$