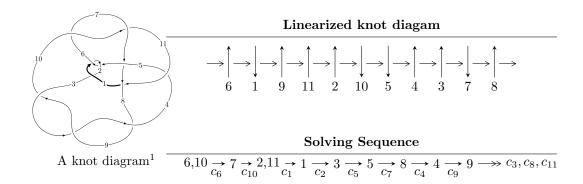
$11a_{169} \ (K11a_{169})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -4.96166 \times 10^{185}u^{73} + 1.25507 \times 10^{186}u^{72} + \dots + 1.38036 \times 10^{187}b - 2.21942 \times 10^{187}, \\ &5.60840 \times 10^{187}u^{73} - 1.03180 \times 10^{188}u^{72} + \dots + 5.10733 \times 10^{188}a + 2.81879 \times 10^{189}, \ u^{74} - u^{73} + \dots + 36u \\ I_2^u &= \langle 4u^{13} + 7u^{12} - 21u^{11} - 33u^{10} + 49u^9 + 71u^8 - 56u^7 - 90u^6 + 36u^5 + 66u^4 - 4u^3 - 26u^2 + b - 3u + 4, \\ &6u^{13} + 10u^{12} + \dots + a + 10, \\ &u^{14} + 2u^{13} - 5u^{12} - 10u^{11} + 11u^{10} + 23u^9 - 11u^8 - 31u^7 + 4u^6 + 25u^5 + 4u^4 - 11u^3 - 4u^2 + 2u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 88 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.
$$I_1^u = \langle -4.96 \times 10^{185} u^{73} + 1.26 \times 10^{186} u^{72} + \dots + 1.38 \times 10^{187} b - 2.22 \times 10^{187}$$
, $5.61 \times 10^{187} u^{73} - 1.03 \times 10^{188} u^{72} + \dots + 5.11 \times 10^{188} a + 2.82 \times 10^{189}$, $u^{74} - u^{73} + \dots + 36u + 37 \rangle$

(i) Arc colorings

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

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

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

$$a_{2} = \begin{pmatrix} -0.109811u^{73} + 0.202024u^{72} + \cdots - 3.01507u - 5.51912 \\ 0.0359447u^{73} - 0.0909234u^{72} + \cdots - 0.656044u + 1.60786 \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -0.145756u^{73} + 0.292948u^{72} + \cdots - 2.35903u - 7.12697 \\ 0.0359447u^{73} - 0.0909234u^{72} + \cdots - 0.656044u + 1.60786 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.107346u^{73} - 0.195541u^{72} + \cdots - 2.58294u + 3.70574 \\ -0.318159u^{73} + 0.662604u^{72} + \cdots - 2.83612u - 10.4308 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.187310u^{73} + 0.380215u^{72} + \cdots - 4.71712u - 5.98298 \\ 0.0710115u^{73} - 0.143579u^{72} + \cdots - 2.35575u + 2.65479 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.168216u^{73} + 0.379034u^{72} + \cdots + 3.07123u - 4.69178 \\ -0.0865870u^{73} + 0.159014u^{72} + \cdots + 1.12473u - 4.45130 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -0.284387u^{73} + 0.587033u^{72} + \cdots + 4.79088u - 9.08039 \\ 0.0463239u^{73} - 0.104793u^{72} + \cdots - 2.64081u + 1.69178 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.0959357u^{73} - 0.265994u^{72} + \cdots + 1.34312u + 0.825831 \\ -0.160387u^{73} + 0.335587u^{72} + \cdots + 1.38132u - 5.82341 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.0959357v^{73} - 0.265994u^{72} + \cdots + 1.34312u + 0.825831 \\ -0.160387u^{73} + 0.335587u^{72} + \cdots + 1.38132u - 5.82341 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.581332u^{73} + 1.19718u^{72} + \cdots + 15.2381u 18.9875$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1,c_5	$u^{74} + 18u^{72} + \dots + 5u + 1$
c_2	$u^{74} + 36u^{73} + \dots - 17u + 1$
c_3,c_8,c_9	$u^{74} - u^{73} + \dots + 22u + 1$
C ₄	$u^{74} - 3u^{73} + \dots - 176u + 1003$
c_6, c_{10}	$u^{74} - u^{73} + \dots + 36u + 37$
	$u^{74} - 5u^{73} + \dots - 20u + 1$
c_{11}	$u^{74} - 5u^{73} + \dots + 300u + 125$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1,c_5	$y^{74} + 36y^{73} + \dots - 17y + 1$
c_2	$y^{74} + 12y^{73} + \dots - 77y + 1$
c_3,c_8,c_9	$y^{74} + 77y^{73} + \dots - 58y + 1$
c_4	$y^{74} + 29y^{73} + \dots + 34287672y + 1006009$
c_6, c_{10}	$y^{74} - 57y^{73} + \dots - 4034y + 1369$
c_7	$y^{74} - 9y^{73} + \dots + 14y + 1$
c_{11}	$y^{74} + 15y^{73} + \dots + 308750y + 15625$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.041401 + 1.026520I		
a = 0.661998 - 0.676360I	1.11109 + 6.26090I	0
b = -0.590855 - 0.983471I		
u = -0.041401 - 1.026520I		
a = 0.661998 + 0.676360I	1.11109 - 6.26090I	0
b = -0.590855 + 0.983471I		
u = -0.986532 + 0.392792I		
a = 0.390575 - 0.412307I	-1.70214 + 1.37634I	0
b = -0.201955 - 0.077354I		
u = -0.986532 - 0.392792I		
a = 0.390575 + 0.412307I	-1.70214 - 1.37634I	0
b = -0.201955 + 0.077354I		
u = -1.064540 + 0.083077I		
a = -0.038681 - 0.719869I	-3.93189 + 3.73813I	0
b = -1.066260 - 0.903808I		
u = -1.064540 - 0.083077I		
a = -0.038681 + 0.719869I	-3.93189 - 3.73813I	0
b = -1.066260 + 0.903808I		
u = -0.054647 + 1.089920I		
a = -0.798538 + 0.520307I	-3.49876 - 4.45579I	0
b = 0.662690 + 0.358460I		
u = -0.054647 - 1.089920I		
a = -0.798538 - 0.520307I	-3.49876 + 4.45579I	0
b = 0.662690 - 0.358460I		
u = 1.008160 + 0.419741I		
a = -1.13208 - 2.49760I	-5.90718 - 3.61297I	0
b = 0.086823 - 0.942517I		
u = 1.008160 - 0.419741I		
a = -1.13208 + 2.49760I	-5.90718 + 3.61297I	0
b = 0.086823 + 0.942517I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.164060 + 0.892569I		
a = 0.610647 + 0.324648I	2.28203 + 1.45434I	7.07609 - 2.82697I
b = -0.635278 + 0.581899I		
u = 0.164060 - 0.892569I		
a = 0.610647 - 0.324648I	2.28203 - 1.45434I	7.07609 + 2.82697I
b = -0.635278 - 0.581899I		
u = -1.020520 + 0.447604I		
a = 0.90579 - 1.99644I	-7.03134 + 7.38518I	0
b = -0.56045 - 1.35749I		
u = -1.020520 - 0.447604I		
a = 0.90579 + 1.99644I	-7.03134 - 7.38518I	0
b = -0.56045 + 1.35749I		
u = -0.706637 + 0.528963I		
a = 0.715385 + 0.015552I	-1.94267 + 1.36984I	-1.20938 - 5.61656I
b = -0.111730 + 0.682639I		
u = -0.706637 - 0.528963I		
a = 0.715385 - 0.015552I	-1.94267 - 1.36984I	-1.20938 + 5.61656I
b = -0.111730 - 0.682639I		
u = -1.118000 + 0.053349I		
a = -1.16980 + 2.42638I	-3.93201 + 1.54935I	0
b = 0.427319 + 1.057150I		
u = -1.118000 - 0.053349I		
a = -1.16980 - 2.42638I	-3.93201 - 1.54935I	0
b = 0.427319 - 1.057150I		
u = 1.094100 + 0.269644I		
a = -0.50567 - 2.00641I	-1.87663 - 4.80358I	0
b = 0.561390 - 1.183450I		
u = 1.094100 - 0.269644I		
a = -0.50567 + 2.00641I	-1.87663 + 4.80358I	0
b = 0.561390 + 1.183450I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.716202 + 0.466840I		
a = -0.082574 - 0.910018I	-2.54067 + 2.00646I	4.56819 - 2.62899I
b = -0.902862 - 0.142948I		
u = -0.716202 - 0.466840I		
a = -0.082574 + 0.910018I	-2.54067 - 2.00646I	4.56819 + 2.62899I
b = -0.902862 + 0.142948I		
u = -0.453990 + 0.701764I		
a = -0.330021 + 0.379368I	-5.37822 - 3.01874I	-1.04024 + 2.49965I
b = -0.539990 + 1.146080I		
u = -0.453990 - 0.701764I		
a = -0.330021 - 0.379368I	-5.37822 + 3.01874I	-1.04024 - 2.49965I
b = -0.539990 - 1.146080I		
u = 1.150740 + 0.216584I		
a = -0.08189 - 2.43504I	-6.13754 - 3.74072I	0
b = -0.150667 - 1.122100I		
u = 1.150740 - 0.216584I		
a = -0.08189 + 2.43504I	-6.13754 + 3.74072I	0
b = -0.150667 + 1.122100I		
u = -1.109710 + 0.388330I		
a = 0.698876 - 0.299047I	-1.55302 + 1.40337I	0
b = 0.340968 - 0.383433I		
u = -1.109710 - 0.388330I		
a = 0.698876 + 0.299047I	-1.55302 - 1.40337I	0
b = 0.340968 + 0.383433I		
u = 1.191070 + 0.010518I		
a = -0.022094 + 0.440729I	-7.86764 - 1.80141I	0
b = -0.772060 - 0.401516I		
$\iota = 1.191070 - 0.010518I$		
a = -0.022094 - 0.440729I	-7.86764 + 1.80141I	0
b = -0.772060 + 0.401516I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.189310 + 0.229765I		
a = 1.31840 + 1.49765I	-10.02310 - 6.93733I	0
b = -0.583679 + 1.119390I		
u = 1.189310 - 0.229765I		
a = 1.31840 - 1.49765I	-10.02310 + 6.93733I	0
b = -0.583679 - 1.119390I		
u = 0.730409 + 0.234263I		
a = 0.002848 - 0.948008I	0.90646 - 3.01225I	11.02233 + 8.12268I
b = 0.823183 - 0.768347I		
u = 0.730409 - 0.234263I		
a = 0.002848 + 0.948008I	0.90646 + 3.01225I	11.02233 - 8.12268I
b = 0.823183 + 0.768347I		
u = 0.645449 + 1.130360I		
a = -0.399107 + 0.201377I	-7.17177 - 2.00704I	0
b = 0.330428 + 1.061930I		
u = 0.645449 - 1.130360I		
a = -0.399107 - 0.201377I	-7.17177 + 2.00704I	0
b = 0.330428 - 1.061930I		
u = -0.644097 + 0.246664I		<u>-</u>
a = -1.22405 + 1.11061I	-2.89873 - 2.58975I	-0.111793 + 1.162954I
b = -0.704733 + 0.577546I		
u = -0.644097 - 0.246664I	2 2225	0.111.500 1.1000515
a = -1.22405 - 1.11061I	-2.89873 + 2.58975I	-0.111793 - 1.162954I
b = -0.704733 - 0.577546I		
u = 1.229030 + 0.471094I	1 05055 0 00000	
a = -0.391923 + 0.075906I	-1.05855 - 6.36832I	0
b = -0.820281 - 0.357667I $u = 1.229030 - 0.471094I$		
	1.05055 6.960907	0
a = -0.391923 - 0.075906I	-1.05855 + 6.36832I	0
b = -0.820281 + 0.357667I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.315060 + 0.070834I	,	
a = 0.10565 + 1.58707I	-3.68119 - 1.72060I	0
b = -0.461958 + 1.011830I		
u = -1.315060 - 0.070834I		
a = 0.10565 - 1.58707I	-3.68119 + 1.72060I	0
b = -0.461958 - 1.011830I		
u = -1.353880 + 0.256891I		
a = -0.30501 + 2.26816I	-3.56136 + 5.27681I	0
b = 0.478617 + 1.068020I		
u = -1.353880 - 0.256891I		
a = -0.30501 - 2.26816I	-3.56136 - 5.27681I	0
b = 0.478617 - 1.068020I		
u = 0.563652 + 0.233266I		
a = 0.719862 - 0.170364I	1.084040 + 0.054792I	10.18991 + 0.13008I
b = 0.648787 + 0.161529I		
u = 0.563652 - 0.233266I		
a = 0.719862 + 0.170364I	1.084040 - 0.054792I	10.18991 - 0.13008I
b = 0.648787 - 0.161529I		
u = -1.40158 + 0.28073I		
a = 0.07621 - 1.71088I	-13.8677 + 6.0588I	0
b = 0.15964 - 1.41781I		
u = -1.40158 - 0.28073I		
a = 0.07621 + 1.71088I	-13.8677 - 6.0588I	0
b = 0.15964 + 1.41781I		
u = -0.179516 + 0.523495I		
a = -0.414147 - 0.312461I	1.20853 + 2.22979I	5.58274 - 4.23366I
b = 0.614780 + 0.802645I		
u = -0.179516 - 0.523495I		
a = -0.414147 + 0.312461I	1.20853 - 2.22979I	5.58274 + 4.23366I
b = 0.614780 - 0.802645I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.03616 + 1.44649I		
a = -0.485282 - 0.593135I	-5.65481 - 9.14282I	0
b = 0.540574 - 1.099130I		
u = 0.03616 - 1.44649I		
a = -0.485282 + 0.593135I	-5.65481 + 9.14282I	0
b = 0.540574 + 1.099130I		
u = -1.29046 + 0.66405I		
a = 0.98402 - 1.42129I	-3.68654 + 4.65688I	0
b = -0.450482 - 1.038080I		
u = -1.29046 - 0.66405I		
a = 0.98402 + 1.42129I	-3.68654 - 4.65688I	0
b = -0.450482 + 1.038080I		
u = -1.35471 + 0.52687I		
a = 0.231505 + 0.110886I	-7.66023 + 10.17330I	0
b = 1.018660 - 0.327910I		
u = -1.35471 - 0.52687I		
a = 0.231505 - 0.110886I	-7.66023 - 10.17330I	0
b = 1.018660 + 0.327910I		
u = 1.37570 + 0.47899I		
a = 0.73388 + 1.86660I	-3.38565 - 11.61060I	0
b = -0.588470 + 1.135700I		
u = 1.37570 - 0.47899I		
a = 0.73388 - 1.86660I	-3.38565 + 11.61060I	0
b = -0.588470 - 1.135700I		
u = 1.36071 + 0.58544I		
a = -0.320853 - 0.015899I	-7.59610 - 0.90779I	0
b = 0.748042 + 0.449545I		
u = 1.36071 - 0.58544I		
a = -0.320853 + 0.015899I	-7.59610 + 0.90779I	0
b = 0.748042 - 0.449545I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.440113 + 0.253274I		
a = 1.56735 + 0.12834I	-1.99873 + 1.35242I	-1.92328 - 4.74045I
b = 0.086114 + 0.816280I		
u = -0.440113 - 0.253274I		
a = 1.56735 - 0.12834I	-1.99873 - 1.35242I	-1.92328 + 4.74045I
b = 0.086114 - 0.816280I		
u = 0.356198 + 0.290587I		
a = -1.41914 + 2.35526I	-7.27061 + 4.64233I	-5.17242 - 2.62174I
b = -0.297912 - 1.078840I		
u = 0.356198 - 0.290587I		
a = -1.41914 - 2.35526I	-7.27061 - 4.64233I	-5.17242 + 2.62174I
b = -0.297912 + 1.078840I		
u = 1.56557 + 0.07115I		
a = -0.42153 - 1.61275I	-12.38830 + 0.44974I	0
b = -0.245943 - 1.066820I		
u = 1.56557 - 0.07115I		
a = -0.42153 + 1.61275I	-12.38830 - 0.44974I	0
b = -0.245943 + 1.066820I		
u = -1.46364 + 0.61572I		
a = -0.75390 + 1.56481I	-10.4170 + 16.1443I	0
b = 0.642261 + 1.218140I		
u = -1.46364 - 0.61572I		
a = -0.75390 - 1.56481I	-10.4170 - 16.1443I	0
b = 0.642261 - 1.218140I		
u = 1.50472 + 0.85046I		
a = -0.856898 - 1.096980I	-9.53471 - 6.00121I	0
b = 0.587862 - 1.094480I		
u = 1.50472 - 0.85046I		
a = -0.856898 + 1.096980I	-9.53471 + 6.00121I	0
b = 0.587862 + 1.094480I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.086041 + 0.247920I		
a = -1.29730 - 2.26020I	1.04830 - 2.74313I	6.44828 + 0.65245I
b = 0.664169 - 0.876441I		
u = 0.086041 - 0.247920I		
a = -1.29730 + 2.26020I	1.04830 + 2.74313I	6.44828 - 0.65245I
b = 0.664169 + 0.876441I		
u = 1.96415 + 0.32367I		
a = -0.137388 + 1.240990I	-11.91390 + 0.82740I	0
b = 0.263248 + 1.008130I		
u = 1.96415 - 0.32367I		
a = -0.137388 - 1.240990I	-11.91390 - 0.82740I	0
b = 0.263248 - 1.008130I		

$$II. \\ I_2^u = \langle 4u^{13} + 7u^{12} + \dots + b + 4, \ 6u^{13} + 10u^{12} + \dots + a + 10, \ u^{14} + 2u^{13} + \dots + 2u + 1 \rangle$$

(i) Arc colorings

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

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

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

$$a_{2} = \begin{pmatrix} -6u^{13} - 10u^{12} + \dots - u - 10 \\ -4u^{13} - 7u^{12} + \dots + 3u - 4 \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -2u^{13} - 3u^{12} + \dots - 4u - 6 \\ -4u^{13} - 7u^{12} + \dots + 3u - 4 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -5u^{13} - 6u^{12} + \dots - 7u - 10 \\ -10u^{13} - 16u^{12} + \dots + 60u^{2} - 10 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 7u^{13} + 9u^{12} + \dots + 6u + 12 \\ 4u^{13} + 4u^{12} + \dots + 10u + 10 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u^{13} - 2u^{12} + \dots + 3u - 2 \\ -u^{13} - u^{12} + \dots - 5u - 5 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 4u^{13} + 6u^{12} + \dots - 27u^{2} + 5 \\ 6u^{13} + 6u^{12} + \dots + 13u + 14 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{13} - 2u^{12} + \dots + 4u - 3 \\ -u^{13} - 2u^{12} + \dots + 19u^{2} - 6 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{13} - 2u^{12} + \dots + 4u - 3 \\ -u^{13} - 2u^{12} + \dots + 4u - 3 \end{pmatrix}$$

$$-u^{13} - 2u^{12} + \dots + 4u - 3$$

$$-u^{13} - 2u^{12} + \dots + 4u - 3$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-15u^{13} - 14u^{12} + 99u^{11} + 61u^{10} - 276u^9 - 131u^8 + 403u^7 + 211u^6 - 375u^5 - 194u^4 + 175u^3 + 127u^2 - 44u - 33$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{14} - u^{13} + \dots - u + 1$
c_2	$u^{14} + 7u^{13} + \dots + 9u + 1$
c_3	$u^{14} + 8u^{12} + \dots + 4u^2 + 1$
c_4	$u^{14} + 4u^{12} + \dots + 3u^2 + 1$
c_5	$u^{14} + u^{13} + \dots + u + 1$
c_6	$u^{14} + 2u^{13} + \dots + 2u + 1$
c_7	$u^{14} + 2u^{13} + u^{12} - 2u^{11} - 4u^{10} - 2u^9 + 4u^8 + 6u^7 + 2u^6 - 2u^4 - 2u^3 + 1$
c_8, c_9	$u^{14} + 8u^{12} + \dots + 4u^2 + 1$
c_{10}	$u^{14} - 2u^{13} + \dots - 2u + 1$
c_{11}	$u^{14} + u^{12} - 3u^{11} - 2u^{10} - 2u^9 + u^8 + 3u^7 + 5u^6 + u^5 + u^4 - 2u^3 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{14} + 7y^{13} + \dots + 9y + 1$
c_2	$y^{14} + 7y^{13} + \dots + 5y + 1$
c_3,c_8,c_9	$y^{14} + 16y^{13} + \dots + 8y + 1$
C_4	$y^{14} + 8y^{13} + \dots + 6y + 1$
c_6,c_{10}	$y^{14} - 14y^{13} + \dots - 12y + 1$
c_7	$y^{14} - 2y^{13} + \dots - 4y^2 + 1$
c_{11}	$y^{14} + 2y^{13} + \dots + 2y^2 + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.923995 + 0.558875I		
a = 1.48872 - 1.47936I	-7.49308 + 6.46120I	-4.33039 - 4.82668I
b = -0.495691 - 1.193760I		
u = -0.923995 - 0.558875I		
a = 1.48872 + 1.47936I	-7.49308 - 6.46120I	-4.33039 + 4.82668I
b = -0.495691 + 1.193760I		
u = 0.973601 + 0.510087I		
a = 0.180282 - 0.090322I	-2.09597 - 0.56119I	-3.19183 - 3.82330I
b = 0.312796 + 0.732458I		
u = 0.973601 - 0.510087I		
a = 0.180282 + 0.090322I	-2.09597 + 0.56119I	-3.19183 + 3.82330I
b = 0.312796 - 0.732458I		
u = -0.567641 + 0.492408I		
a = 1.95584 - 1.12949I	-4.89766 + 3.00668I	0.74586 - 1.41093I
b = -0.281944 + 0.557057I		
u = -0.567641 - 0.492408I		
a = 1.95584 + 1.12949I	-4.89766 - 3.00668I	0.74586 + 1.41093I
b = -0.281944 - 0.557057I		
u = 0.727754 + 0.106963I		
a = -0.255048 - 0.581565I	0.39771 - 2.89359I	-6.27864 + 3.59976I
b = 0.760930 - 0.850713I		
u = 0.727754 - 0.106963I		
a = -0.255048 + 0.581565I	0.39771 + 2.89359I	-6.27864 - 3.59976I
b = 0.760930 + 0.850713I		
u = 1.252450 + 0.359700I		
a = -0.78037 - 1.99059I	-3.33539 - 3.64299I	-1.75994 + 2.76575I
b = 0.410511 - 1.042370I		
u = 1.252450 - 0.359700I		
a = -0.78037 + 1.99059I	-3.33539 + 3.64299I	-1.75994 - 2.76575I
b = 0.410511 + 1.042370I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.623201 + 0.116079I		
a = -1.01609 - 1.68081I	-2.43487 + 3.43645I	5.05060 - 7.06034I
b = -0.942798 - 0.813476I		
u = -0.623201 - 0.116079I		
a = -1.01609 + 1.68081I	-2.43487 - 3.43645I	5.05060 + 7.06034I
b = -0.942798 + 0.813476I		
u = -1.83897 + 0.15178I		
a = -0.073330 + 1.299140I	-11.39450 - 1.08865I	1.76433 + 7.16066I
b = -0.263802 + 0.940835I		
u = -1.83897 - 0.15178I		
a = -0.073330 - 1.299140I	-11.39450 + 1.08865I	1.76433 - 7.16066I
b = -0.263802 - 0.940835I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing	
c_1	$ (u^{14} - u^{13} + \dots - u + 1)(u^{74} + 18u^{72} + \dots + 5u + 1) $	
c_2	$(u^{14} + 7u^{13} + \dots + 9u + 1)(u^{74} + 36u^{73} + \dots - 17u + 1)$	
c_3	$(u^{14} + 8u^{12} + \dots + 4u^2 + 1)(u^{74} - u^{73} + \dots + 22u + 1)$	
c_4	$(u^{14} + 4u^{12} + \dots + 3u^2 + 1)(u^{74} - 3u^{73} + \dots - 176u + 1003)$	
c_5	$(u^{14} + u^{13} + \dots + u + 1)(u^{74} + 18u^{72} + \dots + 5u + 1)$	
<i>c</i> ₆	$(u^{14} + 2u^{13} + \dots + 2u + 1)(u^{74} - u^{73} + \dots + 36u + 37)$	
c ₇	$(u^{14} + 2u^{13} + u^{12} - 2u^{11} - 4u^{10} - 2u^{9} + 4u^{8} + 6u^{7} + 2u^{6} - 2u^{4} - (u^{74} - 5u^{73} + \dots - 20u + 1)$	$2u^3 + 1)$
c_8, c_9	$(u^{14} + 8u^{12} + \dots + 4u^2 + 1)(u^{74} - u^{73} + \dots + 22u + 1)$	
c_{10}	$(u^{14} - 2u^{13} + \dots - 2u + 1)(u^{74} - u^{73} + \dots + 36u + 37)$	
c_{11}	$(u^{14} + u^{12} - 3u^{11} - 2u^{10} - 2u^9 + u^8 + 3u^7 + 5u^6 + u^5 + u^4 - 2u^3 + (u^{74} - 5u^{73} + \dots + 300u + 125)$	+ 1)

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1,c_5	$(y^{14} + 7y^{13} + \dots + 9y + 1)(y^{74} + 36y^{73} + \dots - 17y + 1)$	
c_2	$(y^{14} + 7y^{13} + \dots + 5y + 1)(y^{74} + 12y^{73} + \dots - 77y + 1)$	
c_3,c_8,c_9	$(y^{14} + 16y^{13} + \dots + 8y + 1)(y^{74} + 77y^{73} + \dots - 58y + 1)$	
c_4	$(y^{14} + 8y^{13} + \dots + 6y + 1)$ $\cdot (y^{74} + 29y^{73} + \dots + 34287672y + 1006009)$	
c_6, c_{10}	$(y^{14} - 14y^{13} + \dots - 12y + 1)(y^{74} - 57y^{73} + \dots - 4034y + 1369)$	
	$(y^{14} - 2y^{13} + \dots - 4y^2 + 1)(y^{74} - 9y^{73} + \dots + 14y + 1)$	
c_{11}	$(y^{14} + 2y^{13} + \dots + 2y^2 + 1)(y^{74} + 15y^{73} + \dots + 308750y + 15625)$	