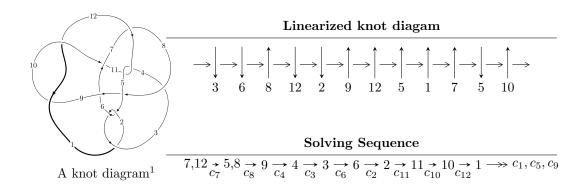
$12n_{0408} (K12n_{0408})$



Ideals for irreducible components² of X_{par}

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 92 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.
$$I_1^u = \langle 3.32 \times 10^{359} u^{70} - 4.44 \times 10^{359} u^{69} + \dots + 2.07 \times 10^{364} b - 6.04 \times 10^{363}, \ -2.45 \times 10^{364} u^{70} + 4.96 \times 10^{364} u^{69} + \dots + 1.10 \times 10^{368} a + 4.70 \times 10^{368}, \ u^{71} - 2u^{70} + \dots - 50760 u + 5291 \rangle$$

(i) Arc colorings

$$a_{12} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.000223193u^{70} - 0.000452249u^{69} + \dots + 29.0701u - 4.28980 \\ -0.0000160301u^{70} + 0.0000214489u^{69} + \dots + 1.55560u + 0.291474 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.000108414u^{70} + 0.000231215u^{69} + \dots - 26.9057u + 3.05037 \\ 0.0000349665u^{70} - 0.0000665424u^{69} + \dots - 0.330042u + 0.239270 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.000223193u^{70} - 0.000452249u^{69} + \dots + 29.0701u - 4.28980 \\ -4.77057 \times 10^{-6}u^{70} - 4.55792 \times 10^{-6}u^{69} + \dots + 3.03409u + 0.260456 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.000239223u^{70} - 0.000473698u^{69} + \dots + 27.5145u - 4.58128 \\ -4.53515 \times 10^{-6}u^{70} - 5.71553 \times 10^{-6}u^{69} + \dots + 2.58027u + 0.316601 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.0000654430u^{70} + 0.000121036u^{69} + \dots + 2.03966u + 1.27408 \\ -0.0000373474u^{70} + 0.0000850284u^{69} + \dots + 4.95248u + 0.211483 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.000128361u^{70} - 0.000267216u^{69} + \dots + 30.3146u - 3.65679 \\ -0.0000243416u^{70} + 0.000047389u^{69} + \dots - 2.19710u + 0.550891 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.0000513840u^{70} + 0.0000471219u^{69} + \dots + 9.13849u - 0.0700090 \\ -0.0000138702u^{70} + 0.0000242156u^{69} + \dots + 7.00547u - 0.868044 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0000375138u^{70} + 0.0000229063u^{69} + \dots + 2.13303u + 0.798035 \\ -0.0000128274u^{70} + 0.0000225121u^{69} + \dots + 7.00547u - 0.868044 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0000128274u^{70} + 0.0000225121u^{69} + \dots + 9.96795u - 1.80594 \\ -0.0000358515u^{70} + 0.000021766u^{69} + \dots + 9.35995u + 0.946339 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.0000814784u^{70} 0.000121110u^{69} + \cdots 8.51691u 4.14593$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{71} + 34u^{70} + \dots + 99u + 1$
c_2, c_5	$u^{71} + 6u^{70} + \dots + 3u - 1$
c_3	$u^{71} + 3u^{70} + \dots + 3403u - 821$
c_4, c_{11}	$u^{71} + 2u^{70} + \dots + 8576u - 1849$
c_6	$u^{71} + 18u^{70} + \dots - 3847u - 341$
c_7	$u^{71} + 2u^{70} + \dots - 50760u - 5291$
c_8	$u^{71} - 3u^{70} + \dots - 921625u - 136291$
c_9, c_{12}	$u^{71} + 7u^{70} + \dots - 836u - 53$
c_{10}	$u^{71} - 4u^{70} + \dots - 12683514u - 12102611$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{71} + 22y^{70} + \dots + 7631y - 1$
c_2, c_5	$y^{71} - 34y^{70} + \dots + 99y - 1$
c_3	$y^{71} + 107y^{70} + \dots - 25018129y - 674041$
c_4, c_{11}	$y^{71} - 96y^{70} + \dots + 156138908y - 3418801$
c_6	$y^{71} + 8y^{70} + \dots - 3768041y - 116281$
c_7	$y^{71} + 96y^{70} + \dots - 99726602y - 27994681$
<i>c</i> ₈	$y^{71} + 31y^{70} + \dots - 411466202141y - 18575236681$
c_9, c_{12}	$y^{71} + 51y^{70} + \dots + 6292y - 2809$
c_{10}	$y^{71} + 58y^{70} + \dots - 4549217659521294y - 146473193017321$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.580765 + 0.835800I		
a = -0.292777 - 0.451256I	-4.96899 + 3.96926I	0 7.49324I
b = 0.282543 + 0.413279I		
u = 0.580765 - 0.835800I		
a = -0.292777 + 0.451256I	-4.96899 - 3.96926I	0. + 7.49324I
b = 0.282543 - 0.413279I		
u = -0.788689 + 0.650257I		
a = 0.878827 - 0.718311I	1.02161 + 2.87191I	0
b = -0.098470 - 0.332871I		
u = -0.788689 - 0.650257I		
a = 0.878827 + 0.718311I	1.02161 - 2.87191I	0
b = -0.098470 + 0.332871I		
u = -1.102090 + 0.196980I		
a = -0.565213 - 0.502463I	1.32872 - 1.06319I	0
b = -0.181280 - 0.585679I		
u = -1.102090 - 0.196980I		
a = -0.565213 + 0.502463I	1.32872 + 1.06319I	0
b = -0.181280 + 0.585679I		
u = -0.644955 + 0.431962I		
a = -0.131388 - 0.611300I	-1.87321 + 8.07778I	-2.27368 - 4.02394I
b = 1.44716 + 0.73868I		
u = -0.644955 - 0.431962I		
a = -0.131388 + 0.611300I	-1.87321 - 8.07778I	-2.27368 + 4.02394I
b = 1.44716 - 0.73868I		
u = -1.219390 + 0.158809I		
a = 0.605127 - 0.575176I	0.46636 - 2.54570I	0
b = -0.018267 - 0.533663I		
u = -1.219390 - 0.158809I		
a = 0.605127 + 0.575176I	0.46636 + 2.54570I	0
b = -0.018267 + 0.533663I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.338847 + 0.652992I		
a = 2.05956 + 0.00269I	-2.65434 - 8.89707I	-3.34744 + 5.99725I
b = 0.322023 + 0.276626I		
u = 0.338847 - 0.652992I		
a = 2.05956 - 0.00269I	-2.65434 + 8.89707I	-3.34744 - 5.99725I
b = 0.322023 - 0.276626I		
u = -0.413420 + 0.603171I		
a = -1.19312 + 0.91314I	2.09910 - 1.55037I	2.13059 + 4.88188I
b = 0.013449 + 0.272129I		
u = -0.413420 - 0.603171I		
a = -1.19312 - 0.91314I	2.09910 + 1.55037I	2.13059 - 4.88188I
b = 0.013449 - 0.272129I		
u = -0.206337 + 1.264600I		
a = 0.87744 + 1.44981I	-7.83303 - 3.23562I	0
b = 0.97694 + 2.04446I		
u = -0.206337 - 1.264600I		
a = 0.87744 - 1.44981I	-7.83303 + 3.23562I	0
b = 0.97694 - 2.04446I		
u = -0.495470 + 0.518548I		
a = -0.309042 + 0.617419I	0.29797 + 2.50456I	0.701081 - 0.103219I
b = -1.36002 - 0.62813I		
u = -0.495470 - 0.518548I		
a = -0.309042 - 0.617419I	0.29797 - 2.50456I	0.701081 + 0.103219I
b = -1.36002 + 0.62813I		
u = 0.659094 + 0.234693I		
a = -0.688554 + 0.725722I	-1.59434 + 1.80020I	0.62667 - 4.98436I
b = 0.061050 - 0.639663I		
u = 0.659094 - 0.234693I		
a = -0.688554 - 0.725722I	-1.59434 - 1.80020I	0.62667 + 4.98436I
b = 0.061050 + 0.639663I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.184729 + 0.633390I	,	
a = -2.09854 + 0.37802I	-0.19378 - 3.46779I	-1.36386 + 2.69751I
b = -0.435861 - 0.070705I		
u = 0.184729 - 0.633390I		
a = -2.09854 - 0.37802I	-0.19378 + 3.46779I	-1.36386 - 2.69751I
b = -0.435861 + 0.070705I		
u = 0.155035 + 1.339750I		
a = 0.03561 - 1.62777I	-6.17756 + 4.77517I	0
b = -0.35185 - 2.24462I		
u = 0.155035 - 1.339750I		
a = 0.03561 + 1.62777I	-6.17756 - 4.77517I	0
b = -0.35185 + 2.24462I		
u = -0.645433		
a = -0.542319	1.01771	11.3920
b = -0.377916		
u = 1.270820 + 0.486913I		
a = -0.482541 + 0.074369I	-1.12010 + 3.38645I	0
b = 0.453419 - 0.446420I		
u = 1.270820 - 0.486913I		
a = -0.482541 - 0.074369I	-1.12010 - 3.38645I	0
b = 0.453419 + 0.446420I		
u = 1.027510 + 0.932024I		_
a = 0.338936 + 0.076836I	-4.73552 + 1.86861I	0
b = -0.448741 + 0.004535I		
u = 1.027510 - 0.932024I	. ======	
a = 0.338936 - 0.076836I	-4.73552 - 1.86861I	0
b = -0.448741 - 0.004535I		
u = 0.045687 + 0.585291I		
a = -0.191858 + 0.636762I	0.83945 - 5.04601I	-0.72754 + 7.42828I
b = 1.130060 - 0.314443I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.045687 - 0.585291I		
a = -0.191858 - 0.636762I	0.83945 + 5.04601I	-0.72754 - 7.42828I
b = 1.130060 + 0.314443I		
u = -0.184861 + 0.554459I		
a = -0.189001 - 0.545144I	2.19151 - 0.19769I	2.21273 + 1.68853I
b = -1.084770 + 0.040106I		
u = -0.184861 - 0.554459I		
a = -0.189001 + 0.545144I	2.19151 + 0.19769I	2.21273 - 1.68853I
b = -1.084770 - 0.040106I		
u = 0.09305 + 1.45285I		
a = -0.277047 + 1.109460I	-3.73297 - 1.70076I	0
b = -0.01604 + 1.70541I		
u = 0.09305 - 1.45285I		
a = -0.277047 - 1.109460I	-3.73297 + 1.70076I	0
b = -0.01604 - 1.70541I		
u = 0.43800 + 1.46752I		
a = 0.460286 - 0.948050I	-5.23559 + 3.76380I	0
b = -0.05146 - 1.72191I		
u = 0.43800 - 1.46752I		
a = 0.460286 + 0.948050I	-5.23559 - 3.76380I	0
b = -0.05146 + 1.72191I		
u = 1.44469 + 0.67653I		
a = 0.461376 + 0.000212I	-2.82185 + 8.13246I	0
b = -0.610829 + 0.359999I		
u = 1.44469 - 0.67653I		
a = 0.461376 - 0.000212I	-2.82185 - 8.13246I	0
b = -0.610829 - 0.359999I		
u = 0.222485 + 0.329255I		
a = -0.22314 - 2.06764I	-3.63364 - 2.57307I	-2.03072 + 1.09466I
b = 0.103952 + 0.761599I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.222485 - 0.329255I		
a = -0.22314 + 2.06764I	-3.63364 + 2.57307I	-2.03072 - 1.09466I
b = 0.103952 - 0.761599I		
u = -0.036076 + 0.328318I		
a = 2.77493 - 2.15222I	-6.09160 - 0.21690I	-5.79568 - 0.48270I
b = 0.956928 + 0.554431I		
u = -0.036076 - 0.328318I		
a = 2.77493 + 2.15222I	-6.09160 + 0.21690I	-5.79568 + 0.48270I
b = 0.956928 - 0.554431I		
u = 0.14109 + 1.71542I		
a = -0.103585 - 0.983039I	-8.85568 - 1.19614I	0
b = 0.41054 - 1.70085I		
u = 0.14109 - 1.71542I		
a = -0.103585 + 0.983039I	-8.85568 + 1.19614I	0
b = 0.41054 + 1.70085I		
u = 0.50453 + 1.64767I		
a = -0.021638 + 1.079040I	-11.19700 + 2.71939I	0
b = -0.31773 + 1.57830I		
u = 0.50453 - 1.64767I		
a = -0.021638 - 1.079040I	-11.19700 - 2.71939I	0
b = -0.31773 - 1.57830I		
u = -0.33964 + 1.69087I		
a = -0.270789 - 0.811108I	-8.42379 - 1.34719I	0
b = 0.63080 - 1.85770I		
u = -0.33964 - 1.69087I		
a = -0.270789 + 0.811108I	-8.42379 + 1.34719I	0
b = 0.63080 + 1.85770I		
u = -0.38005 + 1.74334I		
a = -0.004059 + 1.047000I	-4.48823 - 4.63881I	0
b = -0.14824 + 1.70632I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.38005 - 1.74334I		
a = -0.004059 - 1.047000I	-4.48823 + 4.63881I	0
b = -0.14824 - 1.70632I		
u = 0.144380 + 0.082580I		
a = -2.20673 + 2.28717I	-1.49223 + 0.50005I	-5.24006 - 0.19978I
b = 0.462774 - 0.516661I		
u = 0.144380 - 0.082580I		
a = -2.20673 - 2.28717I	-1.49223 - 0.50005I	-5.24006 + 0.19978I
b = 0.462774 + 0.516661I		
u = 0.20850 + 1.82203I		
a = 0.081777 + 1.082370I	-15.0313 + 6.8617I	0
b = 0.40590 + 2.02173I		
u = 0.20850 - 1.82203I		
a = 0.081777 - 1.082370I	-15.0313 - 6.8617I	0
b = 0.40590 - 2.02173I		
u = 0.45176 + 1.83563I		
a = 0.042954 - 1.024460I	-8.94192 + 10.31780I	0
b = -0.39692 - 2.03294I		
u = 0.45176 - 1.83563I		
a = 0.042954 + 1.024460I	-8.94192 - 10.31780I	0
b = -0.39692 + 2.03294I		
u = -0.50536 + 1.86907I		
a = -0.039033 - 1.008760I	-6.53854 - 9.81945I	0
b = 0.17763 - 1.71497I		
u = -0.50536 - 1.86907I		
a = -0.039033 + 1.008760I	-6.53854 + 9.81945I	0
b = 0.17763 + 1.71497I		
u = -0.09707 + 1.98496I		
a = 0.057879 - 0.937148I	-9.48997 - 2.54176I	0
b = 0.14717 - 1.77957I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.09707 - 1.98496I		
a = 0.057879 + 0.937148I	-9.48997 + 2.54176I	0
b = 0.14717 + 1.77957I		
u = 0.49330 + 1.95007I		
a = -0.031263 + 0.967843I	-11.4134 + 16.1003I	0
b = 0.39373 + 2.03998I		
u = 0.49330 - 1.95007I		
a = -0.031263 - 0.967843I	-11.4134 - 16.1003I	0
b = 0.39373 - 2.03998I		
u = -0.67907 + 1.94610I		
a = 0.247969 + 0.639732I	-10.02920 - 5.17198I	0
b = -0.72680 + 2.09501I		
u = -0.67907 - 1.94610I		
a = 0.247969 - 0.639732I	-10.02920 + 5.17198I	0
b = -0.72680 - 2.09501I		
u = 0.34344 + 2.04434I		
a = -0.025252 + 0.944078I	-11.65100 - 4.31172I	0
b = -0.25012 + 1.70609I		
u = 0.34344 - 2.04434I		
a = -0.025252 - 0.944078I	-11.65100 + 4.31172I	0
b = -0.25012 - 1.70609I		
u = 0.00982 + 2.14846I		
a = 0.009145 - 0.765336I	-9.17505 - 2.02606I	0
b = 0.24624 - 1.99478I		
u = 0.00982 - 2.14846I		
a = 0.009145 + 0.765336I	-9.17505 + 2.02606I	0
b = 0.24624 + 1.99478I		
u = -0.34232 + 2.31471I		
a = 0.089041 + 0.645209I	-10.43290 + 1.02273I	0
b = -0.43595 + 2.20178I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.34232 - 2.31471I		
a = 0.089041 - 0.645209I	-10.43290 - 1.02273I	0
b = -0.43595 - 2.20178I		

$$\begin{array}{l} I_2^u = \langle -1.02 \times 10^{17} u^{20} - 3.63 \times 10^{17} u^{19} + \dots + 1.77 \times 10^{18} b - 7.60 \times 10^{17}, \ -2.79 \times 10^{18} u^{20} - 2.29 \times 10^{18} u^{19} + \dots + 5.31 \times 10^{18} a - 3.59 \times 10^{18}, \ u^{21} + u^{20} + \dots + u + 3 \rangle \end{array}$$

(i) Arc colorings

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.525589u^{20} + 0.430902u^{19} + \cdots - 3.87934u + 0.675616 \\ 0.0574685u^{20} + 0.205341u^{19} + \cdots - 0.674948u + 0.429508 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.639678u^{20} - 0.519629u^{19} + \cdots + 3.71273u + 0.974140 \\ -0.198195u^{20} - 0.215992u^{19} + \cdots + 1.23162u - 0.765561 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.525589u^{20} + 0.430902u^{19} + \cdots - 3.87934u + 0.675616 \\ 0.0333158u^{20} + 0.195091u^{19} + \cdots + 0.807132u + 0.145445 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.468121u^{20} + 0.225560u^{19} + \cdots - 3.20440u + 0.246108 \\ 0.0242084u^{20} + 0.247013u^{19} + \cdots + 0.486854u - 0.298173 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.243288u^{20} + 0.0876454u^{19} + \cdots - 1.24949u - 0.505262 \\ 0.414187u^{20} + 0.520712u^{19} + \cdots - 2.89587u - 0.0634637 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.296423u^{20} + 0.0723191u^{19} + \cdots - 1.42924u - 0.964066 \\ 0.265495u^{20} + 0.472573u^{19} + \cdots - 1.61833u - 0.682384 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.327392u^{20} - 0.257031u^{19} + \cdots - 1.30080u - 0.247004 \\ 0.0570984u^{20} + 0.205606u^{19} + \cdots - 0.525634u - 1.70795 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.384491u^{20} - 0.462637u^{19} + \cdots - 0.775171u + 1.46095 \\ 0.0570984u^{20} + 0.205606u^{19} + \cdots - 0.525634u - 1.70795 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.717824u^{20} + 0.795971u^{19} + \cdots - 5.55816u - 2.12761 \\ -0.148508u^{20} - 0.169556u^{19} + \cdots + 2.76505u + 1.17130 \end{pmatrix}$$

(ii) Obstruction class = 1

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{21} - 11u^{20} + \dots + 88u - 9$
c_2	$u^{21} + u^{20} + \dots - 4u - 3$
c_3	$u^{21} - 2u^{20} + \dots + 10u + 5$
c_4	$u^{21} - u^{20} + \dots - 3u + 1$
<i>C</i> 5	$u^{21} - u^{20} + \dots - 4u + 3$
c_6	$u^{21} + u^{20} + \dots + 8u^2 + 1$
c_7	$u^{21} + u^{20} + \dots + u + 3$
c_8	$u^{21} + 2u^{20} + \dots - 8u^2 - 1$
<i>c</i> ₉	$u^{21} + 6u^{20} + \dots + 45u + 5$
c_{10}	$u^{21} + 3u^{20} + \dots + 7u - 1$
c_{11}	$u^{21} + u^{20} + \dots - 3u - 1$
c_{12}	$u^{21} - 6u^{20} + \dots + 45u - 5$
·	The state of the s

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{21} + 13y^{20} + \dots + 184y - 81$
c_2, c_5	$y^{21} - 11y^{20} + \dots + 88y - 9$
c_3	$y^{21} + 22y^{20} + \dots + 840y - 25$
c_4, c_{11}	$y^{21} - 17y^{20} + \dots - 3y - 1$
	$y^{21} - 5y^{20} + \dots - 16y - 1$
<i>C</i> ₇	$y^{21} + 19y^{20} + \dots + 115y - 9$
<i>c</i> ₈	$y^{21} + 6y^{20} + \dots - 16y - 1$
c_9, c_{12}	$y^{21} + 14y^{20} + \dots + 265y - 25$
c_{10}	$y^{21} + 9y^{20} + \dots + 7y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.017760 + 0.164191I		
a = 0.019420 - 0.728210I	0.01218 - 1.44237I	-3.57616 + 0.36303I
b = -0.217020 - 0.758452I		
u = -1.017760 - 0.164191I		
a = 0.019420 + 0.728210I	0.01218 + 1.44237I	-3.57616 - 0.36303I
b = -0.217020 + 0.758452I		
u = -0.667983 + 0.500875I		
a = 0.264507 - 0.993663I	1.64283 + 4.02770I	3.16447 - 4.97726I
b = -0.740886 - 0.591101I		
u = -0.667983 - 0.500875I		
a = 0.264507 + 0.993663I	1.64283 - 4.02770I	3.16447 + 4.97726I
b = -0.740886 + 0.591101I		
u = 0.954936 + 0.692254I		
a = 0.072870 - 0.298348I	-4.60032 + 2.49760I	0.02822 - 6.06015I
b = -0.378423 - 0.311339I		
u = 0.954936 - 0.692254I		
a = 0.072870 + 0.298348I	-4.60032 - 2.49760I	0.02822 + 6.06015I
b = -0.378423 + 0.311339I		
u = -0.811685		
a = 0.881305	0.358951	-3.34010
b = 0.180005		
u = 0.755182 + 0.080789I		
a = 0.423871 - 1.018030I	-0.92163 + 9.19955I	2.77433 - 8.25516I
b = -1.089450 - 0.150699I		
u = 0.755182 - 0.080789I		
a = 0.423871 + 1.018030I	-0.92163 - 9.19955I	2.77433 + 8.25516I
b = -1.089450 + 0.150699I		
u = 0.311855 + 1.336120I		
a = -0.607669 + 0.987511I	-7.42230 + 2.81144I	-2.33733 + 0.74449I
b = -0.69526 + 1.74117I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.311855 - 1.336120I		
a = -0.607669 - 0.987511I	-7.42230 - 2.81144I	-2.33733 - 0.74449I
b = -0.69526 - 1.74117I		
u = -0.271251 + 1.356350I		
a = -0.46017 - 1.35418I	-6.42306 - 4.13848I	-5.49167 + 2.04959I
b = 0.12651 - 1.96996I		
u = -0.271251 - 1.356350I		
a = -0.46017 + 1.35418I	-6.42306 + 4.13848I	-5.49167 - 2.04959I
b = 0.12651 + 1.96996I		
u = -0.468317 + 0.327808I		
a = -0.17804 + 1.48507I	2.92449 - 0.74097I	7.31939 + 1.52438I
b = 0.762786 + 0.342701I		
u = -0.468317 - 0.327808I		
a = -0.17804 - 1.48507I	2.92449 + 0.74097I	7.31939 - 1.52438I
b = 0.762786 - 0.342701I		
u = 0.474570 + 0.190158I		
a = -0.01766 + 1.77843I	1.07014 + 3.68507I	5.59024 - 4.51475I
b = 1.076620 + 0.036349I		
u = 0.474570 - 0.190158I		
a = -0.01766 - 1.77843I	1.07014 - 3.68507I	5.59024 + 4.51475I
b = 1.076620 - 0.036349I		
u = -0.23006 + 2.10695I		
a = -0.158253 - 0.739024I	-9.48831 - 0.32291I	-3.90057 - 0.91919I
b = 0.46119 - 1.91480I		
u = -0.23006 - 2.10695I		
a = -0.158253 + 0.739024I	-9.48831 + 0.32291I	-3.90057 + 0.91919I
b = 0.46119 + 1.91480I		
u = 0.06467 + 2.12010I		
a = 0.033800 + 0.726331I	-9.87219 - 3.28291I	-3.90087 + 4.45768I
b = -0.39606 + 1.95200I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.06467 - 2.12010I		
a = 0.033800 - 0.726331I	-9.87219 + 3.28291I	-3.90087 - 4.45768I
b = -0.39606 - 1.95200I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{21} - 11u^{20} + \dots + 88u - 9)(u^{71} + 34u^{70} + \dots + 99u + 1) $
c_2	$(u^{21} + u^{20} + \dots - 4u - 3)(u^{71} + 6u^{70} + \dots + 3u - 1)$
c_3	$(u^{21} - 2u^{20} + \dots + 10u + 5)(u^{71} + 3u^{70} + \dots + 3403u - 821)$
C ₄	$(u^{21} - u^{20} + \dots - 3u + 1)(u^{71} + 2u^{70} + \dots + 8576u - 1849)$
<i>C</i> 5	$(u^{21} - u^{20} + \dots - 4u + 3)(u^{71} + 6u^{70} + \dots + 3u - 1)$
c_6	$(u^{21} + u^{20} + \dots + 8u^2 + 1)(u^{71} + 18u^{70} + \dots - 3847u - 341)$
C ₇	$(u^{21} + u^{20} + \dots + u + 3)(u^{71} + 2u^{70} + \dots - 50760u - 5291)$
c ₈	$(u^{21} + 2u^{20} + \dots - 8u^2 - 1)(u^{71} - 3u^{70} + \dots - 921625u - 136291)$
<i>c</i> 9	$(u^{21} + 6u^{20} + \dots + 45u + 5)(u^{71} + 7u^{70} + \dots - 836u - 53)$
c_{10}	$(u^{21} + 3u^{20} + \dots + 7u - 1)$ $\cdot (u^{71} - 4u^{70} + \dots - 12683514u - 12102611)$
c_{11}	$(u^{21} + u^{20} + \dots - 3u - 1)(u^{71} + 2u^{70} + \dots + 8576u - 1849)$
c_{12}	$(u^{21} - 6u^{20} + \dots + 45u - 5)(u^{71} + 7u^{70} + \dots - 836u - 53)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$ (y^{21} + 13y^{20} + \dots + 184y - 81)(y^{71} + 22y^{70} + \dots + 7631y - 1) $
c_2, c_5	$(y^{21} - 11y^{20} + \dots + 88y - 9)(y^{71} - 34y^{70} + \dots + 99y - 1)$
c_3	$(y^{21} + 22y^{20} + \dots + 840y - 25)$ $\cdot (y^{71} + 107y^{70} + \dots - 25018129y - 674041)$
c_4, c_{11}	$(y^{21} - 17y^{20} + \dots - 3y - 1)$ $\cdot (y^{71} - 96y^{70} + \dots + 156138908y - 3418801)$
c ₆	$(y^{21} - 5y^{20} + \dots - 16y - 1)(y^{71} + 8y^{70} + \dots - 3768041y - 116281)$
c ₇	$(y^{21} + 19y^{20} + \dots + 115y - 9)$ $\cdot (y^{71} + 96y^{70} + \dots - 99726602y - 27994681)$
c_8	$(y^{21} + 6y^{20} + \dots - 16y - 1)$ $\cdot (y^{71} + 31y^{70} + \dots - 411466202141y - 18575236681)$
c_9, c_{12}	$(y^{21} + 14y^{20} + \dots + 265y - 25)(y^{71} + 51y^{70} + \dots + 6292y - 2809)$
c_{10}	$(y^{21} + 9y^{20} + \dots + 7y - 1)$ $\cdot (y^{71} + 58y^{70} + \dots - 4549217659521294y - 146473193017321)$