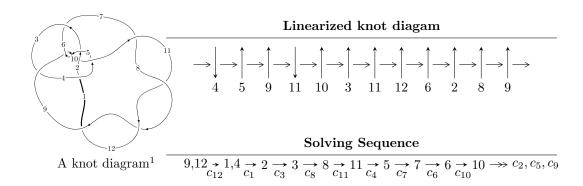
$12n_{0698} \ (K12n_{0698})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 4.82224 \times 10^{104} u^{71} + 2.70914 \times 10^{103} u^{70} + \dots + 1.50566 \times 10^{105} b + 5.07425 \times 10^{105}, \\ &- 3.95098 \times 10^{106} u^{71} - 5.31311 \times 10^{105} u^{70} + \dots + 1.95736 \times 10^{106} a - 4.15435 \times 10^{107}, \\ &u^{72} - u^{71} + \dots + 53u - 13 \rangle \\ I_2^u &= \langle 55u^{17} - 68u^{16} + \dots + b + 45, \\ &u^{16} - 9u^{14} + 32u^{12} - 54u^{10} + u^9 + 33u^8 - 5u^7 + 23u^6 + 8u^5 - 39u^4 - 4u^3 + 10u^2 + a + 1, \\ &u^{18} - 10u^{16} + 41u^{14} - 86u^{12} + u^{11} + 87u^{10} - 6u^9 - 10u^8 + 13u^7 - 62u^6 - 12u^5 + 49u^4 + 4u^3 - 10u^2 + 1 \rangle \end{split}$$

* 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.
$$I_1^u = \langle 4.82 \times 10^{104} u^{71} + 2.71 \times 10^{103} u^{70} + \cdots + 1.51 \times 10^{105} b + 5.07 \times 10^{105}, \ -3.95 \times 10^{106} u^{71} - 5.31 \times 10^{105} u^{70} + \cdots + 1.96 \times 10^{106} a - 4.15 \times 10^{107}, \ u^{72} - u^{71} + \cdots + 53u - 13 \rangle$$

(i) Arc colorings

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{4} = \begin{pmatrix} 2.01852u^{71} + 0.271443u^{70} + \cdots - 65.0023u + 21.2242 \\ -0.320274u^{71} - 0.0179930u^{70} + \cdots + 10.2838u - 3.37011 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 1.34277u^{71} + 0.0225101u^{70} + \cdots - 40.7482u + 15.2242 \\ -1.75378u^{71} - 0.432113u^{70} + \cdots + 60.3842u - 19.0972 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 2.01852u^{71} + 0.271443u^{70} + \cdots - 65.0023u + 21.2242 \\ 2.48267u^{71} + 0.427423u^{70} + \cdots - 84.8436u + 26.3994 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -u^{2} + 1 \\ u^{2} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.787391u^{71} + 0.0299893u^{70} + \cdots - 16.9800u + 6.61959 \\ 3.76108u^{71} + 0.707611u^{70} + \cdots - 129.385u + 39.9767 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{3} - 2u \\ -u^{3} + u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -1.22082u^{71} - 0.484053u^{70} + \cdots + 44.6748u - 14.9450 \\ 0.413411u^{71} + 0.0302634u^{70} + \cdots + 1.23588u + 0.424911 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.22688u^{71} + 0.0699200u^{70} + \cdots - 40.1232u + 12.0753 \\ -0.214089u^{71} + 0.417178u^{70} + \cdots - 2.55754u - 0.600644 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-1.82373u^{71} + 0.228275u^{70} + \cdots + 35.3694u 11.5112$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{72} + 6u^{71} + \dots - 38390u + 1825$
c_2	$u^{72} + 6u^{71} + \dots - 228u + 3$
c_3	$u^{72} - u^{71} + \dots - 34023u - 7187$
C ₄	$u^{72} - 9u^{70} + \dots - 3368u + 431$
c_5,c_9	$u^{72} - 3u^{71} + \dots + 99u - 9$
<i>C</i> ₆	$u^{72} - 2u^{71} + \dots - 1062455u + 98953$
c_7, c_8, c_{11} c_{12}	$u^{72} - u^{71} + \dots + 53u - 13$
c_{10}	$u^{72} - 6u^{71} + \dots - 1644u + 271$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{72} - 62y^{71} + \dots - 343686400y + 3330625$
c_2	$y^{72} + 14y^{71} + \dots - 66864y + 9$
<i>c</i> ₃	$y^{72} + 61y^{71} + \dots + 1453616311y + 51652969$
c_4	$y^{72} - 18y^{71} + \dots - 35272544y + 185761$
c_5, c_9	$y^{72} + 53y^{71} + \dots - 5265y + 81$
<i>c</i> ₆	$y^{72} + 44y^{71} + \dots - 139414609387y + 9791696209$
c_7, c_8, c_{11} c_{12}	$y^{72} - 59y^{71} + \dots + 2755y + 169$
c_{10}	$y^{72} + 14y^{71} + \dots + 1440312y + 73441$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.126859 + 0.988884I		
a = 1.61742 - 0.09689I	-5.20735 + 5.44865I	0
b = 0.050276 - 0.299679I		
u = 0.126859 - 0.988884I		
a = 1.61742 + 0.09689I	-5.20735 - 5.44865I	0
b = 0.050276 + 0.299679I		
u = -0.127845 + 1.002920I		
a = 1.70641 + 0.18941I	-10.2342 - 11.1489I	0
b = -0.107709 + 0.230288I		
u = -0.127845 - 1.002920I		
a = 1.70641 - 0.18941I	-10.2342 + 11.1489I	0
b = -0.107709 - 0.230288I		
u = -0.141541 + 0.954879I		
a = 1.65626 - 0.08213I	-9.10926 + 1.32235I	0
b = 0.051271 + 0.607650I		
u = -0.141541 - 0.954879I		
a = 1.65626 + 0.08213I	-9.10926 - 1.32235I	0
b = 0.051271 - 0.607650I		
u = -0.939877 + 0.013317I		
a = -0.291635 - 1.080060I	-3.34758 + 0.14621I	5.65895 + 0.I
b = 1.73084 + 0.47010I		
u = -0.939877 - 0.013317I		
a = -0.291635 + 1.080060I	-3.34758 - 0.14621I	5.65895 + 0.I
b = 1.73084 - 0.47010I		
u = 1.076150 + 0.148518I		
a = -1.37015 + 0.85044I	2.74768 + 2.38827I	0
b = 2.50989 - 0.59662I		
u = 1.076150 - 0.148518I		
a = -1.37015 - 0.85044I	2.74768 - 2.38827I	0
b = 2.50989 + 0.59662I		

Solutions to I_1^u	$ \sqrt{-1}(\text{vol} + \sqrt{-1}CS) $	Cusp shape
u = 0.169948 + 1.080080I		
a = -1.151840 - 0.173137I	-7.75026 + 1.40505I	0
b = 0.320494 - 0.089757I		
u = 0.169948 - 1.080080I		
a = -1.151840 + 0.173137I	-7.75026 - 1.40505I	0
b = 0.320494 + 0.089757I		
u = -0.100523 + 0.879151I		
a = -1.53673 + 0.45497I	-4.60409 + 0.28761I	6.69444 + 0.38443I
b = 0.235088 - 0.021753I		
u = -0.100523 - 0.879151I		
a = -1.53673 - 0.45497I	-4.60409 - 0.28761I	6.69444 - 0.38443I
b = 0.235088 + 0.021753I		
u = -0.611340 + 0.627257I		
a = -0.066441 + 0.364149I	-3.02185 - 3.31425I	3.79268 + 3.31898I
b = -0.206420 + 0.446689I		
u = -0.611340 - 0.627257I		
a = -0.066441 - 0.364149I	-3.02185 + 3.31425I	3.79268 - 3.31898I
b = -0.206420 - 0.446689I		
u = 1.113140 + 0.172789I		
a = -0.521124 - 0.520349I	0.00408 + 6.29362I	0
b = 0.45809 - 1.47955I		
u = 1.113140 - 0.172789I		
a = -0.521124 + 0.520349I	0.00408 - 6.29362I	0
b = 0.45809 + 1.47955I		
u = 1.156820 + 0.028330I		
a = 0.165309 + 1.262120I	3.70030 - 0.68226I	0
b = 0.224082 - 0.645135I		
u = 1.156820 - 0.028330I		
a = 0.165309 - 1.262120I	3.70030 + 0.68226I	0
b = 0.224082 + 0.645135I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.167160 + 0.206148I		
a = -1.71705 - 0.04041I	0.36792 - 7.14775I	0
b = 2.93225 - 0.19622I		
u = -1.167160 - 0.206148I		
a = -1.71705 + 0.04041I	0.36792 + 7.14775I	0
b = 2.93225 + 0.19622I		
u = 0.012163 + 0.813810I		
a = -2.26681 - 0.64788I	-8.47599 - 2.01586I	-1.74932 + 3.46594I
b = 0.353647 + 0.193689I		
u = 0.012163 - 0.813810I		
a = -2.26681 + 0.64788I	-8.47599 + 2.01586I	-1.74932 - 3.46594I
b = 0.353647 - 0.193689I		
u = -1.197050 + 0.139381I		
a = -0.025309 + 0.409207I	4.25039 - 3.42640I	0
b = -0.278101 + 0.921535I		
u = -1.197050 - 0.139381I		
a = -0.025309 - 0.409207I	4.25039 + 3.42640I	0
b = -0.278101 - 0.921535I		
u = -1.22306		
a = 0.911163	5.53230	0
b = -2.59828		
u = 1.257050 + 0.016904I		
a = 0.864368 - 0.363359I	1.45015 - 3.58564I	0
b = -2.47476 + 1.48717I		
u = 1.257050 - 0.016904I		
a = 0.864368 + 0.363359I	1.45015 + 3.58564I	0
b = -2.47476 - 1.48717I		
u = 1.126030 + 0.582449I		
a = -0.511047 - 0.643523I	-4.85158 + 4.39466I	0
b = 1.44670 + 0.79597I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.126030 - 0.582449I		
a = -0.511047 + 0.643523I	-4.85158 - 4.39466I	0
b = 1.44670 - 0.79597I		
u = -1.209670 + 0.417858I		
a = -0.856738 + 0.734668I	-1.19160 - 4.92957I	0
b = 1.90170 - 1.11652I		
u = -1.209670 - 0.417858I		
a = -0.856738 - 0.734668I	-1.19160 + 4.92957I	0
b = 1.90170 + 1.11652I		
u = 1.272340 + 0.155410I		
a = 0.812489 - 0.086231I	1.46025 + 2.68807I	0
b = -1.47439 - 0.51290I		
u = 1.272340 - 0.155410I		
a = 0.812489 + 0.086231I	1.46025 - 2.68807I	0
b = -1.47439 + 0.51290I		
u = -1.185310 + 0.498510I		
a = 0.82701 - 1.16892I	-5.90329 - 6.47727I	0
b = -0.71053 + 1.83597I		
u = -1.185310 - 0.498510I		
a = 0.82701 + 1.16892I	-5.90329 + 6.47727I	0
b = -0.71053 - 1.83597I		
u = -1.306730 + 0.016350I		
a = 0.763989 + 0.862315I	2.64593 - 3.47147I	0
b = -0.989243 - 0.377234I		
u = -1.306730 - 0.016350I		
a = 0.763989 - 0.862315I	2.64593 + 3.47147I	0
b = -0.989243 + 0.377234I		
u = 1.185180 + 0.555323I		
a = 0.648873 + 0.912240I	-1.96169 - 0.01375I	0
b = -0.71737 - 1.69599I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.185180 - 0.555323I		
a = 0.648873 - 0.912240I	-1.96169 + 0.01375I	0
b = -0.71737 + 1.69599I		
u = 1.267320 + 0.374432I		
a = -1.10450 - 1.16691I	-4.57901 + 6.29919I	0
b = 2.31610 + 1.70281I		
u = 1.267320 - 0.374432I		
a = -1.10450 + 1.16691I	-4.57901 - 6.29919I	0
b = 2.31610 - 1.70281I		
u = -1.294090 + 0.341511I		
a = -0.290838 + 1.234360I	-4.40911 - 2.13637I	0
b = 1.16609 - 2.28504I		
u = -1.294090 - 0.341511I		
a = -0.290838 - 1.234360I	-4.40911 + 2.13637I	0
b = 1.16609 + 2.28504I		
u = -1.204420 + 0.584547I		
a = 0.437650 - 1.000750I	-6.94951 + 5.57839I	0
b = -0.55270 + 1.68415I		
u = -1.204420 - 0.584547I		
a = 0.437650 + 1.000750I	-6.94951 - 5.57839I	0
b = -0.55270 - 1.68415I		
u = -0.365082 + 0.449645I		
a = 0.724515 - 0.003907I	-3.33344 - 0.58612I	4.42329 + 3.18792I
b = 0.590117 + 0.122833I		
u = -0.365082 - 0.449645I		
a = 0.724515 + 0.003907I	-3.33344 + 0.58612I	4.42329 - 3.18792I
b = 0.590117 - 0.122833I		
u = 1.36594 + 0.40578I		
a = -0.422467 - 0.892800I	0.01877 + 4.33991I	0
b = 1.05490 + 1.55127I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.36594 - 0.40578I		
a = -0.422467 + 0.89280	0I = 0.01877 - 4.33991I	0
b = 1.05490 - 1.55127I		
u = -1.38791 + 0.45935I		
a = 0.810663 - 0.80880	$1I \mid -0.45597 - 10.62370I$	0
b = -1.89548 + 1.84655I		
u = -1.38791 - 0.45935I		
a = 0.810663 + 0.80880	1I -0.45597 + 10.62370I	0
b = -1.89548 - 1.84655I		
u = 1.39138 + 0.46126I		
a = 0.849080 + 0.94266	7I -5.4651 + 16.3720I	0
b = -2.01018 - 1.90844I		
u = 1.39138 - 0.46126I		
a = 0.849080 - 0.94266	7I -5.4651 - 16.3720I	0
b = -2.01018 + 1.90844I		
u = 1.41047 + 0.44601I		
a = 0.610953 + 0.68374	6I -4.21502 + 3.71603I	0
b = -1.76875 - 1.90527I	I	
u = 1.41047 - 0.44601I		
a = 0.610953 - 0.68374	6I -4.21502 -3.71603I	0
b = -1.76875 + 1.90527I		
u = -1.39405 + 0.52910I		
a = -0.526831 + 0.75527	6I -2.92127 -7.14791I	0
b = 1.12722 - 1.11980I		
u = -1.39405 - 0.52910I		
a = -0.526831 - 0.75527	6I -2.92127 + 7.14791I	0
b = 1.12722 + 1.11980I		
u = 0.365685 + 0.32672	5I	
a = 1.41373 - 1.37865I	0.900933 - 0.329550I	6.04745 - 3.44320I
b = -0.564131 - 0.22998	2I	

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.365685 - 0.326725I		
a = 1.41373 + 1.37865I	0.900933 + 0.329550I	6.04745 + 3.44320I
b = -0.564131 + 0.229982I		
u = 0.483251		
a = 0.865400	0.738726	12.8440
b = -0.374226		
u = 0.271415 + 0.339694I		
a = 1.14210 - 0.85589I	-2.32274 - 4.16974I	2.86926 + 0.82016I
b = 0.475871 + 1.205610I		
u = 0.271415 - 0.339694I		
a = 1.14210 + 0.85589I	-2.32274 + 4.16974I	2.86926 - 0.82016I
b = 0.475871 - 1.205610I		
u = -1.58255 + 0.01145I		
a = 0.252185 - 0.123258I	7.95850 + 0.06427I	0
b = -1.217410 + 0.437776I		
u = -1.58255 - 0.01145I		
a = 0.252185 + 0.123258I	7.95850 - 0.06427I	0
b = -1.217410 - 0.437776I		
u = -0.110595 + 0.398425I		
a = -0.50400 + 3.42521I	-2.69671 + 4.74873I	1.03045 - 3.19857I
b = -0.525466 - 0.195616I		
u = -0.110595 - 0.398425I		
a = -0.50400 - 3.42521I	-2.69671 - 4.74873I	1.03045 + 3.19857I
b = -0.525466 + 0.195616I		
u = 1.58743 + 0.13147I		
a = -0.036866 - 0.330156I	4.58019 + 6.01061I	0
b = -0.272582 + 0.792813I		
u = 1.58743 - 0.13147I		
a = -0.036866 + 0.330156I	4.58019 - 6.01061I	0
b = -0.272582 - 0.792813I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.040336 + 0.308718I		
a = 1.162940 + 0.506483I	0.69881 + 1.66668I	4.53475 - 6.54101I
b = 0.306872 - 0.876204I		
u = 0.040336 - 0.308718I		
a = 1.162940 - 0.506483I	0.69881 - 1.66668I	4.53475 + 6.54101I
b = 0.306872 + 0.876204I		

(i) Arc colorings

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{4} = \begin{pmatrix} -u^{16} + 9u^{14} + \dots - 10u^{2} - 1 \\ -55u^{17} + 68u^{16} + \dots + 35u - 45 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -59u^{17} + 70u^{16} + \dots + 44u - 48 \\ 119u^{17} - 144u^{16} + \dots - 80u + 96 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -u^{16} + 9u^{14} + \dots - 10u^{2} - 1 \\ -55u^{17} + 67u^{16} + \dots + 35u - 44 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -u^{2} + 1 \\ u^{2} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 13u^{17} - 17u^{16} + \dots - 8u + 9 \\ -96u^{17} + 116u^{16} + \dots + 63u - 77 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{3} - 2u \\ -u^{3} + u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -37u^{17} + 44u^{16} + \dots + 23u - 32 \\ 54u^{17} - 67u^{16} + \dots - 32u + 44 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -16u^{17} + 21u^{16} + \dots + 4u - 10 \\ -19u^{17} + 22u^{16} + \dots + 15u - 16 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= -230u^{17} + 282u^{16} + 1952u^{15} - 2397u^{14} - 6471u^{13} + 7965u^{12} + 9941u^{11} - 12521u^{10} - 4527u^9 + 7084u^8 - 6484u^7 + 4905u^6 + 8225u^5 - 7445u^4 - 2069u^3 + 1737u^2 + 144u - 174u^2 + 1744u^2 + 1$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{18} - 11u^{17} + \dots - 39u + 5$
c_2	$u^{18} + 7u^{17} + \dots + 3u + 1$
c_3	$u^{18} + 2u^{16} + \dots - 6u^2 + 1$
c_4	$u^{18} - u^{17} + \dots - u + 1$
c_5	$u^{18} - 2u^{17} + \dots - 8u + 5$
c_6	$u^{18} + 3u^{17} + \dots - 6u + 1$
c_7, c_8	$u^{18} - 10u^{16} + \dots - 10u^2 + 1$
<i>c</i> ₉	$u^{18} + 2u^{17} + \dots + 8u + 5$
c_{10}	$u^{18} - u^{17} + \dots - u + 1$
c_{11}, c_{12}	$u^{18} - 10u^{16} + \dots - 10u^2 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{18} - 3y^{17} + \dots + 169y + 25$
c_2	$y^{18} + y^{17} + \dots - 7y + 1$
<i>c</i> ₃	$y^{18} + 4y^{17} + \dots - 12y + 1$
C_4	$y^{18} + y^{17} + \dots - 3y + 1$
c_5, c_9	$y^{18} + 12y^{17} + \dots + 116y + 25$
<i>C</i> ₆	$y^{18} + 11y^{17} + \dots - 10y + 1$
c_7, c_8, c_{11} c_{12}	$y^{18} - 20y^{17} + \dots - 20y + 1$
c_{10}	$y^{18} - 3y^{17} + \dots + y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.034780 + 0.909417I		
a = -1.54704 - 0.01895I	-6.97448 + 1.13968I	4.89374 - 0.18325I
b = 0.338766 - 0.248147I		
u = 0.034780 - 0.909417I		
a = -1.54704 + 0.01895I	-6.97448 - 1.13968I	4.89374 + 0.18325I
b = 0.338766 + 0.248147I		
u = 1.207980 + 0.098270I		
a = 0.739289 - 0.918515I	4.03681 + 2.12143I	15.7293 - 1.9822I
b = -1.354920 + 0.330046I		
u = 1.207980 - 0.098270I		
a = 0.739289 + 0.918515I	4.03681 - 2.12143I	15.7293 + 1.9822I
b = -1.354920 - 0.330046I		
u = -1.221290 + 0.000878I		
a = 1.034340 + 0.008877I	1.08464 + 4.68616I	9.18075 - 6.62870I
b = -1.83950 - 1.59017I		
u = -1.221290 - 0.000878I		
a = 1.034340 - 0.008877I	1.08464 - 4.68616I	9.18075 + 6.62870I
b = -1.83950 + 1.59017I		
u = -1.242500 + 0.470628I		
a = -0.780988 + 0.794704I	-3.02478 - 6.13837I	6.43166 + 4.31912I
b = 1.46588 - 0.99279I		
u = -1.242500 - 0.470628I		
a = -0.780988 - 0.794704I	-3.02478 + 6.13837I	6.43166 - 4.31912I
b = 1.46588 + 0.99279I		
u = 1.297070 + 0.392739I		
a = -0.598955 - 0.773625I	-3.07920 + 3.40899I	8.53631 - 2.87922I
b = 1.81748 + 1.61626I		
u = 1.297070 - 0.392739I		
a = -0.598955 + 0.773625I	-3.07920 - 3.40899I	8.53631 + 2.87922I
b = 1.81748 - 1.61626I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.53345 + 0.10123I		
a = -0.292336 - 0.163807I	5.16035 + 6.11216I	16.2770 - 5.8147I
b = 0.743032 - 0.190463I		
u = 1.53345 - 0.10123I		
a = -0.292336 + 0.163807I	5.16035 - 6.11216I	16.2770 + 5.8147I
b = 0.743032 + 0.190463I		
u = -1.56582 + 0.04096I		
a = -0.315755 + 0.060524I	8.11860 + 0.22024I	22.9414 - 14.5563I
b = 1.35534 - 0.49741I		
u = -1.56582 - 0.04096I		
a = -0.315755 - 0.060524I	8.11860 - 0.22024I	22.9414 + 14.5563I
b = 1.35534 + 0.49741I		
u = -0.403896 + 0.125852I		
a = -2.15630 + 0.13786I	-1.63695 - 4.97346I	9.65134 + 6.36185I
b = 0.415201 + 0.902527I		
u = -0.403896 - 0.125852I		
a = -2.15630 - 0.13786I	-1.63695 + 4.97346I	9.65134 - 6.36185I
b = 0.415201 - 0.902527I		
u = 0.360211 + 0.184792I		
a = -2.08226 - 0.15931I	1.24981 - 1.03640I	10.85847 + 2.38119I
b = 0.558708 + 0.874453I		
u = 0.360211 - 0.184792I		
a = -2.08226 + 0.15931I	1.24981 + 1.03640I	10.85847 - 2.38119I
b = 0.558708 - 0.874453I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	
c_2	$(u^{18} + 7u^{17} + \dots + 3u + 1)(u^{72} + 6u^{71} + \dots - 228u + 3)$
c_3	$ (u^{18} + 2u^{16} + \dots - 6u^2 + 1)(u^{72} - u^{71} + \dots - 34023u - 7187) $
<i>C</i> ₄	$(u^{18} - u^{17} + \dots - u + 1)(u^{72} - 9u^{70} + \dots - 3368u + 431)$
<i>C</i> 5	$(u^{18} - 2u^{17} + \dots - 8u + 5)(u^{72} - 3u^{71} + \dots + 99u - 9)$
c_6	$(u^{18} + 3u^{17} + \dots - 6u + 1)(u^{72} - 2u^{71} + \dots - 1062455u + 98953)$
c_{7}, c_{8}	$(u^{18} - 10u^{16} + \dots - 10u^2 + 1)(u^{72} - u^{71} + \dots + 53u - 13)$
<i>c</i> 9	$(u^{18} + 2u^{17} + \dots + 8u + 5)(u^{72} - 3u^{71} + \dots + 99u - 9)$
c_{10}	$(u^{18} - u^{17} + \dots - u + 1)(u^{72} - 6u^{71} + \dots - 1644u + 271)$
c_{11}, c_{12}	$(u^{18} - 10u^{16} + \dots - 10u^2 + 1)(u^{72} - u^{71} + \dots + 53u - 13)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{18} - 3y^{17} + \dots + 169y + 25)$ $\cdot (y^{72} - 62y^{71} + \dots - 343686400y + 3330625)$
c_2	$(y^{18} + y^{17} + \dots - 7y + 1)(y^{72} + 14y^{71} + \dots - 66864y + 9)$
<i>C</i> ₃	$(y^{18} + 4y^{17} + \dots - 12y + 1)$ $\cdot (y^{72} + 61y^{71} + \dots + 1453616311y + 51652969)$
c_4	$(y^{18} + y^{17} + \dots - 3y + 1)(y^{72} - 18y^{71} + \dots - 3.52725 \times 10^7 y + 185761)$
c_5, c_9	$(y^{18} + 12y^{17} + \dots + 116y + 25)(y^{72} + 53y^{71} + \dots - 5265y + 81)$
<i>C</i> ₆	$(y^{18} + 11y^{17} + \dots - 10y + 1)$ $\cdot (y^{72} + 44y^{71} + \dots - 139414609387y + 9791696209)$
c_7, c_8, c_{11} c_{12}	$(y^{18} - 20y^{17} + \dots - 20y + 1)(y^{72} - 59y^{71} + \dots + 2755y + 169)$
c_{10}	$(y^{18} - 3y^{17} + \dots + y + 1)(y^{72} + 14y^{71} + \dots + 1440312y + 73441)$