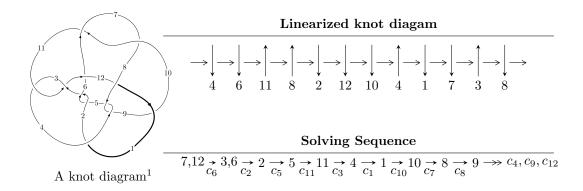
$12n_{0826} (K12n_{0826})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 3.56490 \times 10^{251}u^{63} + 5.72448 \times 10^{251}u^{62} + \dots + 5.50146 \times 10^{254}b + 8.86861 \times 10^{253}, \\ &- 2.35876 \times 10^{254}u^{63} - 4.13220 \times 10^{254}u^{62} + \dots + 4.26363 \times 10^{255}a + 8.91301 \times 10^{256}, \\ &u^{64} + 2u^{63} + \dots - 735u - 124 \rangle \\ I_2^u &= \langle 284428202u^{14} + 396867456u^{13} + \dots + 506758949b + 426150472, \\ &- 8189375817u^{14} - 6846809578u^{13} + \dots + 2533794745a + 27837731986, \\ &u^{15} + u^{14} - u^{13} + 6u^{12} + 26u^{11} + 12u^{10} - 24u^9 - 24u^8 - 10u^7 - 32u^6 + 9u^5 + 51u^4 + 12u^3 - 17u^2 - 6u - 14u^8 + 12u^8 - 10u^7 - 12u^8 + 12u^8 - 12$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 79 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.
$$I_1^u = \langle 3.56 \times 10^{251} u^{63} + 5.72 \times 10^{251} u^{62} + \cdots + 5.50 \times 10^{254} b + 8.87 \times 10^{253}, \ -2.36 \times 10^{254} u^{63} - 4.13 \times 10^{254} u^{62} + \cdots + 4.26 \times 10^{255} a + 8.91 \times 10^{256}, \ u^{64} + 2u^{63} + \cdots - 735u - 124 \rangle$$

(i) Arc colorings

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

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

$$a_{3} = \begin{pmatrix} 0.0553228u^{63} + 0.0969175u^{62} + \cdots - 78.2318u - 20.9047 \\ -0.000647992u^{63} - 0.00104054u^{62} + \cdots - 1.92857u - 0.161205 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.0567994u^{63} + 0.100527u^{62} + \cdots - 83.3905u - 22.7682 \\ -0.000281111u^{63} - 0.000325930u^{62} + \cdots - 2.59418u - 0.242607 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.0564900u^{63} + 0.0995986u^{62} + \cdots - 85.0876u - 19.9751 \\ 0.00255943u^{63} + 0.00450226u^{62} + \cdots + 0.805611u + 1.02426 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.165563u^{63} - 0.264911u^{62} + \cdots + 226.261u + 27.5914 \\ 0.00582935u^{63} + 0.00991425u^{62} + \cdots - 9.04574u - 1.72680 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0723938u^{63} - 0.000941407u^{62} + \cdots - 43.1756u + 139.987 \\ -0.0116628u^{63} - 0.0183746u^{62} + \cdots + 13.8692u + 1.03110 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.0723938u^{63} - 0.0183746u^{62} + \cdots + 3046.36u + 1071.95 \\ 0.0128152u^{63} + 0.0318513u^{62} + \cdots + 217.215u + 25.8646 \\ 0.00582935u^{63} + 0.00991425u^{62} + \cdots + 217.215u + 25.8646 \\ 0.00582935u^{63} + 0.00991425u^{62} + \cdots + 9.04574u - 1.72680 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.159734u^{63} - 0.254996u^{62} + \cdots + 217.215u + 25.8646 \\ 0.00582935u^{63} + 0.00991425u^{62} + \cdots - 9.04574u - 1.72680 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.135914u^{63} - 0.254996u^{62} + \cdots + 202.668u + 78.8031 \\ 0.00237433u^{63} + 0.00489477u^{62} + \cdots - 1.28540u - 0.718444 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 2.15886u^{63} + 3.39630u^{62} + \cdots - 2926.06u - 284.022 \\ -0.0649284u^{63} - 0.111193u^{62} + \cdots + 97.1411u + 21.8225 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.208334u^{63} + 0.401745u^{62} + \cdots 321.895u 123.850$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{64} - 5u^{63} + \dots + 1916u + 23$
c_2, c_5	$u^{64} + 2u^{63} + \dots - 9167u - 1601$
c_3, c_{11}	$u^{64} - 7u^{63} + \dots + 229u + 41$
c_4, c_8	$u^{64} - u^{63} + \dots + 2985u + 1949$
<i>c</i> ₆	$u^{64} + 2u^{63} + \dots - 735u - 124$
c_7, c_{10}	$u^{64} - 8u^{63} + \dots + 355u - 25$
<i>c</i> ₉	$u^{64} + u^{63} + \dots + 8216u - 400$
c_{12}	$u^{64} + 31u^{63} + \dots - 13162594u - 3152393$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{64} + 91y^{63} + \dots - 2472756y + 529$
c_2, c_5	$y^{64} - 36y^{63} + \dots - 23099829y + 2563201$
c_3, c_{11}	$y^{64} + 41y^{63} + \dots + 48501y + 1681$
c_4, c_8	$y^{64} - 71y^{63} + \dots - 12929063y + 3798601$
<i>c</i> ₆	$y^{64} - 12y^{63} + \dots - 119121y + 15376$
c_7, c_{10}	$y^{64} + 46y^{63} + \dots + 6025y + 625$
<i>c</i> ₉	$y^{64} + 75y^{63} + \dots - 82949056y + 160000$
c_{12}	$y^{64} - 291y^{63} + \dots + 164152624346502y + 9937581626449$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.633361 + 0.835451I		
a = -0.530837 + 1.034980I	9.22096 + 8.60656I	-4.00000 - 6.23706I
b = -1.22852 - 1.74056I		
u = -0.633361 - 0.835451I		
a = -0.530837 - 1.034980I	9.22096 - 8.60656I	-4.00000 + 6.23706I
b = -1.22852 + 1.74056I		
u = 0.253229 + 0.900252I		
a = 0.646605 - 0.735868I	3.52271 + 1.68170I	3.06688 - 2.85627I
b = 0.197400 - 0.437594I		
u = 0.253229 - 0.900252I		
a = 0.646605 + 0.735868I	3.52271 - 1.68170I	3.06688 + 2.85627I
b = 0.197400 + 0.437594I		
u = -0.377573 + 0.852675I		
a = 0.896250 - 0.658963I	3.87587 + 2.56306I	-0.62210 - 7.87266I
b = -1.065120 + 0.904713I		
u = -0.377573 - 0.852675I		
a = 0.896250 + 0.658963I	3.87587 - 2.56306I	-0.62210 + 7.87266I
b = -1.065120 - 0.904713I		
u = 0.968214 + 0.475093I		
a = 0.677564 - 0.491270I	4.21273 - 5.33178I	0
b = 0.176332 + 0.400779I		
u = 0.968214 - 0.475093I		
a = 0.677564 + 0.491270I	4.21273 + 5.33178I	0
b = 0.176332 - 0.400779I		
u = 0.773876 + 0.769109I		
a = 0.892108 - 0.775301I	8.67364 - 9.43479I	0
b = 0.281562 - 0.440255I		
u = 0.773876 - 0.769109I		
a = 0.892108 + 0.775301I	8.67364 + 9.43479I	0
b = 0.281562 + 0.440255I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.859282 + 0.057231I		
a = -0.94062 + 1.30856I	1.356600 - 0.236124I	-10.20366 + 0.45727I
b = -0.294118 - 0.799242I		
u = -0.859282 - 0.057231I		
a = -0.94062 - 1.30856I	1.356600 + 0.236124I	-10.20366 - 0.45727I
b = -0.294118 + 0.799242I		
u = -0.637038 + 0.946755I		
a = 0.399510 + 0.471571I	1.75404 + 3.75138I	0
b = 0.408356 + 0.442921I		
u = -0.637038 - 0.946755I		
a = 0.399510 - 0.471571I	1.75404 - 3.75138I	0
b = 0.408356 - 0.442921I		
u = -0.857334		
a = 0.655331	-2.02039	-2.98300
b = 0.234820		
u = 0.890002 + 0.755372I		
a = -0.560431 - 1.010460I	-5.87560 - 2.84637I	0
b = -0.14451 + 1.51757I		
u = 0.890002 - 0.755372I		
a = -0.560431 + 1.010460I	-5.87560 + 2.84637I	0
b = -0.14451 - 1.51757I		
u = -0.905414 + 0.761217I		
a = 0.319731 - 0.980710I	1.05509 + 3.06315I	0
b = 1.01703 + 1.40700I		
u = -0.905414 - 0.761217I		
a = 0.319731 + 0.980710I	1.05509 - 3.06315I	0
b = 1.01703 - 1.40700I		
u = 0.629031 + 0.441968I		
a = -0.590354 - 1.251080I	-0.87655 - 3.21386I	-5.46121 + 1.99366I
b = -1.30236 + 1.41946I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.629031 - 0.441968I		
a = -0.590354 + 1.251080I	-0.87655 + 3.21386I	-5.46121 - 1.99366I
b = -1.30236 - 1.41946I		
u = 0.745958		
a = -0.843570	-2.75005	2.80630
b = -0.794982		
u = 0.325605 + 1.226800I		
a = -0.479590 + 0.579451I	11.41820 - 3.52473I	0
b = 0.135918 + 0.142703I		
u = 0.325605 - 1.226800I		
a = -0.479590 - 0.579451I	11.41820 + 3.52473I	0
b = 0.135918 - 0.142703I		
u = 0.499154 + 0.523034I		
a = -0.352111 - 0.051255I	5.67586 + 1.02167I	0.667278 + 0.621622I
b = 0.811508 - 0.885581I		
u = 0.499154 - 0.523034I		
a = -0.352111 + 0.051255I	5.67586 - 1.02167I	0.667278 - 0.621622I
b = 0.811508 + 0.885581I		
u = 1.233920 + 0.559467I		
a = 0.154791 + 0.866376I	-5.32904 - 3.11782I	0
b = -0.10145 - 1.88879I		
u = 1.233920 - 0.559467I		
a = 0.154791 - 0.866376I	-5.32904 + 3.11782I	0
b = -0.10145 + 1.88879I		
u = -0.666405 + 1.183570I		
a = 0.923395 - 0.459675I	1.02762 - 2.42841I	0
b = 0.647996 + 0.764798I		
u = -0.666405 - 1.183570I		
a = 0.923395 + 0.459675I	1.02762 + 2.42841I	0
b = 0.647996 - 0.764798I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.113490 + 0.809533I		
a = -0.233838 - 1.094600I	-2.47783 - 8.59651I	0
b = -0.77959 + 1.53834I		
u = 1.113490 - 0.809533I		
a = -0.233838 + 1.094600I	-2.47783 + 8.59651I	0
b = -0.77959 - 1.53834I		
u = -0.604799 + 0.139734I		
a = 0.485635 - 1.204360I	-0.236047 + 0.888762I	-5.62676 - 4.10196I
b = -0.556677 + 0.966102I		
u = -0.604799 - 0.139734I		
a = 0.485635 + 1.204360I	-0.236047 - 0.888762I	-5.62676 + 4.10196I
b = -0.556677 - 0.966102I		
u = 0.607795 + 0.087221I		
a = -0.74621 - 1.56542I	-0.88330 + 3.97137I	-1.334301 - 0.429545I
b = 0.68831 + 1.51458I		
u = 0.607795 - 0.087221I		
a = -0.74621 + 1.56542I	-0.88330 - 3.97137I	-1.334301 + 0.429545I
b = 0.68831 - 1.51458I		
u = 0.329116 + 0.508643I		
a = -0.34712 + 2.17987I	0.391230 - 0.353831I	-2.98869 - 0.49409I
b = -0.460457 + 0.282285I		
u = 0.329116 - 0.508643I		
a = -0.34712 - 2.17987I	0.391230 + 0.353831I	-2.98869 + 0.49409I
b = -0.460457 - 0.282285I		
u = -1.14937 + 0.90634I		
a = -0.347312 + 0.828119I	-6.72812 + 3.57989I	0
b = -0.076957 - 1.360690I		
u = -1.14937 - 0.90634I		
a = -0.347312 - 0.828119I	-6.72812 - 3.57989I	0
b = -0.076957 + 1.360690I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.02527 + 1.46729I		
a = -0.603836 + 0.026259I	0.33931 + 2.46518I	0
b = 0.038716 + 0.193115I		
u = -0.02527 - 1.46729I		
a = -0.603836 - 0.026259I	0.33931 - 2.46518I	0
b = 0.038716 - 0.193115I		
u = -1.15018 + 0.95185I		
a = 0.338925 - 0.857634I	-0.23323 + 9.95941I	0
b = 0.21681 + 1.86662I		
u = -1.15018 - 0.95185I		
a = 0.338925 + 0.857634I	-0.23323 - 9.95941I	0
b = 0.21681 - 1.86662I		
u = -0.373052 + 0.273303I		
a = 0.467221 - 1.081940I	-0.286450 + 0.969073I	-5.20156 - 6.74642I
b = -0.213074 + 0.512505I		
u = -0.373052 - 0.273303I		
a = 0.467221 + 1.081940I	-0.286450 - 0.969073I	-5.20156 + 6.74642I
b = -0.213074 - 0.512505I		
u = -0.064752 + 0.327363I		
a = -2.26682 + 0.73356I	5.41696 + 1.08390I	7.59845 - 2.56360I
b = 0.76192 - 1.90756I		
u = -0.064752 - 0.327363I		
a = -2.26682 - 0.73356I	5.41696 - 1.08390I	7.59845 + 2.56360I
b = 0.76192 + 1.90756I		
u = -0.264144 + 0.158619I		
a = -2.22385 - 11.81440I	1.84425 - 0.21555I	-54.1683 - 39.7304I
b = 0.174020 + 0.255284I		
u = -0.264144 - 0.158619I		
a = -2.22385 + 11.81440I	1.84425 + 0.21555I	-54.1683 + 39.7304I
b = 0.174020 - 0.255284I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.51312 + 1.02719I		
a = -0.147229 + 0.787597I	-4.27079 + 6.80776I	0
b = -0.85869 - 1.71762I		
u = -1.51312 - 1.02719I		
a = -0.147229 - 0.787597I	-4.27079 - 6.80776I	0
b = -0.85869 + 1.71762I		
u = -1.42579 + 1.18878I		
a = 0.215991 - 0.781332I	4.6282 + 16.0012I	0
b = 1.04536 + 1.90254I		
u = -1.42579 - 1.18878I		
a = 0.215991 + 0.781332I	4.6282 - 16.0012I	0
b = 1.04536 - 1.90254I		
u = 1.89889 + 0.04609I		
a = 0.259481 + 0.412233I	6.42656 + 2.16286I	0
b = 0.01829 - 2.23354I		
u = 1.89889 - 0.04609I		
a = 0.259481 - 0.412233I	6.42656 - 2.16286I	0
b = 0.01829 + 2.23354I		
u = 1.64927 + 1.03875I		
a = 0.137830 + 0.664791I	-1.72416 - 8.22153I	0
b = 1.06970 - 2.10818I		
u = 1.64927 - 1.03875I		
a = 0.137830 - 0.664791I	-1.72416 + 8.22153I	0
b = 1.06970 + 2.10818I		
u = 1.71347 + 1.01637I		
a = 0.168962 + 0.420273I	6.48830 + 3.36563I	0
b = 2.00584 - 2.12827I		
u = 1.71347 - 1.01637I		
a = 0.168962 - 0.420273I	6.48830 - 3.36563I	0
b = 2.00584 + 2.12827I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.85043 + 0.96309I		
a = -0.431038 + 0.249730I	6.12807 - 2.09855I	0
b = -0.75543 - 1.82108I		
u = -1.85043 - 0.96309I		
a = -0.431038 - 0.249730I	6.12807 + 2.09855I	0
b = -0.75543 + 1.82108I		
u = -1.32939 + 2.57903I		
a = 0.318575 - 0.116709I	6.24532 - 4.56303I	0
b = 1.42196 + 1.34450I		
u = -1.32939 - 2.57903I		
a = 0.318575 + 0.116709I	6.24532 + 4.56303I	0
b = 1.42196 - 1.34450I		

TT

$$\begin{array}{l} I_2^u = \langle 2.84 \times 10^8 u^{14} + 3.97 \times 10^8 u^{13} + \dots + 5.07 \times 10^8 b + 4.26 \times 10^8, \ -8.19 \times 10^9 u^{14} - 6.85 \times 10^9 u^{13} + \dots + 2.53 \times 10^9 a + 2.78 \times 10^{10}, \ u^{15} + u^{14} + \dots - 6u - 1 \rangle \end{array}$$

(i) Arc colorings

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

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

$$a_{3} = \begin{pmatrix} 3.23206u^{14} + 2.70220u^{13} + \dots - 61.4746u - 10.9866 \\ -0.561269u^{14} - 0.783148u^{13} + \dots - 4.05570u - 0.840933 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 2.65780u^{14} + 1.80378u^{13} + \dots - 65.4774u - 12.3574 \\ -0.119451u^{14} - 0.0902996u^{13} + \dots - 1.53653u - 0.516781 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 2.70220u^{14} + 2.15934u^{13} + \dots - 53.0688u - 7.75452 \\ 0.0495199u^{14} + 0.0757808u^{13} + \dots + 0.0115506u - 0.198240 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -6.42929u^{14} - 4.92808u^{13} + \dots + 115.242u + 4.54807 \\ -0.125520u^{14} + 0.0522556u^{13} + \dots + 7.01627u + 1.26673 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 7.05889u^{14} + 2.95931u^{13} + \dots - 126.691u + 32.5632 \\ 0.412693u^{14} + 0.120412u^{13} + \dots - 13.9640u - 1.29863 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -16.6301u^{14} - 19.6871u^{13} + \dots + 325.929u + 144.504 \\ 0.000494896u^{14} - 0.495565u^{13} + \dots - 7.85539u + 2.68332 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -6.55481u^{14} - 4.87583u^{13} + \dots + 122.258u + 5.81480 \\ -0.125520u^{14} + 0.0522556u^{13} + \dots + 7.01627u + 1.26673 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 4.05411u^{14} + 4.62887u^{13} + \dots + 70.1627u + 1.26673 \\ 0.264042u^{14} + 0.287559u^{13} + \dots + 7.01627u + 1.26673 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -39.5909u^{14} - 29.6382u^{13} + \dots + 741.709u + 48.4775 \\ -1.18765u^{14} - 0.793252u^{13} + \dots + 35.0448u + 6.68072 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{6764270976}{2533794745}u^{14} - \frac{13464586804}{2533794745}u^{13} + \dots + \frac{54402764179}{2533794745}u + \frac{37139257588}{2533794745}u^{13} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{15} + 4u^{14} + \dots + 31u - 11$
c_2	$u^{15} + 5u^{14} + \dots - 12u - 9$
c_3	$u^{15} - 2u^{14} + \dots + 2u + 1$
c_4	$u^{15} + 4u^{14} + \dots + 5u^2 - 1$
C ₅	$u^{15} - 5u^{14} + \dots - 12u + 9$
<i>C</i> ₆	$u^{15} + u^{14} + \dots - 6u - 1$
	$u^{15} - 3u^{14} + \dots + 30u - 7$
c ₈	$u^{15} - 4u^{14} + \dots - 5u^2 + 1$
C9	$u^{15} + 6u^{13} + \dots + 3u - 1$
c_{10}	$u^{15} + 3u^{14} + \dots + 30u + 7$
c_{11}	$u^{15} + 2u^{14} + \dots + 2u - 1$
c_{12}	$u^{15} + 10u^{14} + \dots + 21u + 9$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{15} + 8y^{14} + \dots - 29y - 121$
c_2, c_5	$y^{15} - 11y^{14} + \dots + 504y - 81$
c_3,c_{11}	$y^{15} + 10y^{14} + \dots - 14y - 1$
c_4, c_8	$y^{15} - 6y^{14} + \dots + 10y - 1$
	$y^{15} - 3y^{14} + \dots + 2y - 1$
c_7, c_{10}	$y^{15} + 11y^{14} + \dots - 10y - 49$
<i>c</i> ₉	$y^{15} + 12y^{14} + \dots + 11y - 1$
c_{12}	$y^{15} - 46y^{14} + \dots + 153y - 81$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.210934 + 1.069980I		
a = 0.349370 + 0.185058I	1.22966 - 2.43908I	-0.15311 + 1.71479I
b = -0.648553 + 0.253657I		
u = 0.210934 - 1.069980I		
a = 0.349370 - 0.185058I	1.22966 + 2.43908I	-0.15311 - 1.71479I
b = -0.648553 - 0.253657I		
u = 0.884019 + 0.098357I		
a = -0.056574 - 0.974530I	4.78310 - 1.20532I	-6.85327 + 1.75712I
b = 1.08511 + 2.03952I		
u = 0.884019 - 0.098357I		
a = -0.056574 + 0.974530I	4.78310 + 1.20532I	-6.85327 - 1.75712I
b = 1.08511 - 2.03952I		
u = 0.875489		
a = -0.596402	-3.25365	-14.4510
b = -0.730423		
u = -0.772671 + 0.267375I		
a = 0.109162 - 1.363130I	-1.41494 + 4.47917I	-9.52176 - 8.69041I
b = 0.90057 + 1.67261I		
u = -0.772671 - 0.267375I		
a = 0.109162 + 1.363130I	-1.41494 - 4.47917I	-9.52176 + 8.69041I
b = 0.90057 - 1.67261I		
u = -1.111680 + 0.803082I		
a = -0.366596 + 0.898410I	-7.54522 + 3.13534I	-12.90276 - 1.18531I
b = 0.02909 - 1.54137I		
u = -1.111680 - 0.803082I		
a = -0.366596 - 0.898410I	-7.54522 - 3.13534I	-12.90276 + 1.18531I
b = 0.02909 + 1.54137I		
u = -1.50791 + 0.90732I		
a = -0.118198 + 0.835276I	-4.71766 + 7.82049I	-7.90270 - 7.21830I
b = -0.80441 - 1.75992I		

Solutions to I_2^u	$\sqrt{-1}(\operatorname{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.50791 - 0.90732I		
a = -0.118198 - 0.835276I	-4.71766 - 7.82049I	-7.90270 + 7.21830I
b = -0.80441 + 1.75992I		
u = -0.157840 + 0.171948I		
a = 0.10064 - 10.05960I	1.94655 - 0.28740I	10.27253 + 8.40570I
b = -0.272890 - 0.178968I		
u = -0.157840 - 0.171948I		
a = 0.10064 + 10.05960I	1.94655 + 0.28740I	10.27253 - 8.40570I
b = -0.272890 + 0.178968I		
u = 1.51740 + 1.84920I		
a = 0.280397 + 0.100742I	7.34533 + 4.44406I	3.28670 - 5.71136I
b = 1.57630 - 1.96372I		
u = 1.51740 - 1.84920I		
a = 0.280397 - 0.100742I	7.34533 - 4.44406I	3.28670 + 5.71136I
b = 1.57630 + 1.96372I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{15} + 4u^{14} + \dots + 31u - 11)(u^{64} - 5u^{63} + \dots + 1916u + 23) $
c_2	$ (u^{15} + 5u^{14} + \dots - 12u - 9)(u^{64} + 2u^{63} + \dots - 9167u - 1601) $
c_3	$(u^{15} - 2u^{14} + \dots + 2u + 1)(u^{64} - 7u^{63} + \dots + 229u + 41)$
c_4	$ (u^{15} + 4u^{14} + \dots + 5u^2 - 1)(u^{64} - u^{63} + \dots + 2985u + 1949) $
c_5	$(u^{15} - 5u^{14} + \dots - 12u + 9)(u^{64} + 2u^{63} + \dots - 9167u - 1601)$
c_6	$(u^{15} + u^{14} + \dots - 6u - 1)(u^{64} + 2u^{63} + \dots - 735u - 124)$
c_7	$(u^{15} - 3u^{14} + \dots + 30u - 7)(u^{64} - 8u^{63} + \dots + 355u - 25)$
c_8	$(u^{15} - 4u^{14} + \dots - 5u^2 + 1)(u^{64} - u^{63} + \dots + 2985u + 1949)$
<i>c</i> 9	$(u^{15} + 6u^{13} + \dots + 3u - 1)(u^{64} + u^{63} + \dots + 8216u - 400)$
c_{10}	$(u^{15} + 3u^{14} + \dots + 30u + 7)(u^{64} - 8u^{63} + \dots + 355u - 25)$
c_{11}	$(u^{15} + 2u^{14} + \dots + 2u - 1)(u^{64} - 7u^{63} + \dots + 229u + 41)$
c_{12}	$(u^{15} + 10u^{14} + \dots + 21u + 9)$ $\cdot (u^{64} + 31u^{63} + \dots - 13162594u - 3152393)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y^{15} + 8y^{14} + \dots - 29y - 121(y^{64} + 91y^{63} + \dots - 2472756y + 529)$
c_2,c_5	$(y^{15} - 11y^{14} + \dots + 504y - 81)$ $\cdot (y^{64} - 36y^{63} + \dots - 23099829y + 2563201)$
c_3,c_{11}	$(y^{15} + 10y^{14} + \dots - 14y - 1)(y^{64} + 41y^{63} + \dots + 48501y + 1681)$
c_4,c_8	$(y^{15} - 6y^{14} + \dots + 10y - 1)$ $\cdot (y^{64} - 71y^{63} + \dots - 12929063y + 3798601)$
c_6	$(y^{15} - 3y^{14} + \dots + 2y - 1)(y^{64} - 12y^{63} + \dots - 119121y + 15376)$
c_7, c_{10}	$(y^{15} + 11y^{14} + \dots - 10y - 49)(y^{64} + 46y^{63} + \dots + 6025y + 625)$
c_9	$(y^{15} + 12y^{14} + \dots + 11y - 1)$ $\cdot (y^{64} + 75y^{63} + \dots - 82949056y + 160000)$
c_{12}	$(y^{15} - 46y^{14} + \dots + 153y - 81)$ $\cdot (y^{64} - 291y^{63} + \dots + 164152624346502y + 9937581626449)$