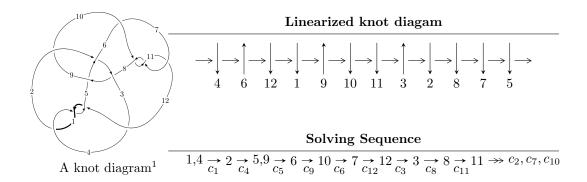
$12a_{1010} \ (K12a_{1010})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -u^{11} - 2u^{10} - 6u^9 - 9u^8 - 12u^7 - 13u^6 - 8u^5 - 5u^4 + u^2 + b, \\ u^{11} + 2u^{10} + 7u^9 + 10u^8 + 17u^7 + 17u^6 + 16u^5 + 10u^4 + 3u^3 + a - 2u - 1, \\ u^{13} + 2u^{12} + 8u^{11} + 12u^{10} + 23u^9 + 26u^8 + 28u^7 + 22u^6 + 10u^5 + 2u^4 - 4u^3 - 4u^2 - u - 1 \rangle \\ I_2^u &= \langle -1.77519 \times 10^{76}u^{83} + 3.36042 \times 10^{76}u^{82} + \dots + 4.02015 \times 10^{76}b - 3.79501 \times 10^{75}, \\ 1.26819 \times 10^{76}u^{83} - 1.95398 \times 10^{76}u^{82} + \dots + 4.02015 \times 10^{76}a - 7.98274 \times 10^{76}, \ u^{84} - u^{83} + \dots - 8u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 97 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.

$$I. I_1^u = \langle -u^{11} - 2u^{10} + \dots + u^2 + b, \ u^{11} + 2u^{10} + \dots + a - 1, \ u^{13} + 2u^{12} + \dots - u - 1 \rangle$$

(i) Arc colorings

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

$$a_{4} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{11} + 2u^{10} + 6u^{9} + 9u^{8} + 12u^{7} + 13u^{6} + 8u^{5} + 5u^{4} - u^{2} \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u^{8} + u^{7} + 4u^{6} + 3u^{5} + 5u^{4} + 2u^{3} + u^{2} - u - 1 \\ -u^{8} - u^{7} - 3u^{6} - 3u^{5} - 2u^{4} - 2u^{3} + u^{2} + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^{11} + 2u^{10} + 6u^{9} + 8u^{8} + 11u^{7} + 10u^{6} + 6u^{5} + 3u^{4} - u^{3} - 2u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{10} + 2u^{9} + 7u^{8} + 10u^{7} + 16u^{6} + 16u^{5} + 13u^{4} + 8u^{3} + u^{2} - 1 \\ u^{12} + 2u^{11} + 6u^{10} + 8u^{9} + 10u^{8} + 8u^{7} + 2u^{6} - 2u^{5} - 5u^{4} - 4u^{3} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u^{2} + 1 \\ -u^{2} \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} u^{12} + 2u^{11} + 7u^{10} + 10u^{9} + 16u^{8} + 16u^{7} + 13u^{6} + 8u^{5} + u^{4} - u^{3} - u^{2} - u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{11} - 2u^{10} + \dots + u + 1 \\ 2u^{11} + 4u^{10} + \dots - u - 1 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes
$$= 4u^{12} + 4u^{11} + 24u^{10} + 20u^9 + 52u^8 + 36u^7 + 48u^6 + 32u^5 + 24u^4 + 24u^3 + 16u^2 + 12u + 2u^4 + 24u^4 + 24u^3 + 16u^2 + 12u + 2u^4 + 24u^4 +$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
$c_1, c_4, c_7 \\ c_{10}, c_{11}, c_{12}$	$u^{13} - 2u^{12} + \dots - u + 1$
c_2, c_5	$u^{13} + 2u^{10} + 7u^9 + 10u^6 + 12u^5 - 8u^4 + 4u^3 + 4u^2 + u - 1$
c_3, c_6	$u^{13} + 2u^{12} + \dots + 5u + 2$
<i>c</i> ₈	$u^{13} - 19u^{12} + \dots + 1856u - 256$
<i>c</i> ₉	$u^{13} - 19u^{12} + \dots + 1344u - 192$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_7 c_{10}, c_{11}, c_{12}	$y^{13} + 12y^{12} + \dots - 7y - 1$
c_2, c_5	$y^{13} + 14y^{11} + \dots + 9y - 1$
c_{3}, c_{6}	$y^{13} - 4y^{12} + \dots - 39y - 4$
<i>c</i> ₈	$y^{13} - 35y^{12} + \dots + 135168y - 65536$
<i>c</i> ₉	$y^{13} - 37y^{12} + \dots + 49152y - 36864$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.345201 + 1.021440I		
a = 0.383027 + 0.071451I	-0.092600 - 0.790634I	-5.74730 - 0.20798I
b = 0.786816 + 0.242416I		
u = -0.345201 - 1.021440I		
a = 0.383027 - 0.071451I	-0.092600 + 0.790634I	-5.74730 + 0.20798I
b = 0.786816 - 0.242416I		
u = -0.816966 + 0.218516I		
a = -1.090410 - 0.648020I	-4.93693 + 9.42698I	-10.17355 - 7.65318I
b = 0.316522 - 0.929361I		
u = -0.816966 - 0.218516I		
a = -1.090410 + 0.648020I	-4.93693 - 9.42698I	-10.17355 + 7.65318I
b = 0.316522 + 0.929361I		
u = 0.242549 + 1.320770I		
a = 2.31317 + 2.33263I	5.96169 - 6.15155I	2.5842 - 14.2195I
b = -2.01116 - 2.58449I		
u = 0.242549 - 1.320770I		
a = 2.31317 - 2.33263I	5.96169 + 6.15155I	2.5842 + 14.2195I
b = -2.01116 + 2.58449I		
u = 0.609274		
a = -2.87003	-2.44873	31.6660
b = 2.28717		
u = -0.08989 + 1.44411I		
a = 0.86609 + 1.34154I	13.07620 + 0.19322I	5.00344 + 0.65090I
b = -1.31236 - 2.11003I		
u = -0.08989 - 1.44411I		
a = 0.86609 - 1.34154I	13.07620 - 0.19322I	5.00344 - 0.65090I
b = -1.31236 + 2.11003I		
u = -0.34207 + 1.41123I		
a = -0.20187 - 2.15080I	5.4451 + 17.8321I	-1.52643 - 9.77243I
b = -0.37276 + 3.06306I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.34207 - 1.41123I		
a = -0.20187 + 2.15080I	5.4451 - 17.8321I	-1.52643 + 9.77243I
b = -0.37276 - 3.06306I		
u = 0.046940 + 0.495776I		
a = 0.665010 + 1.116330I	0.68765 - 1.39515I	-0.97323 + 4.26024I
b = 0.449357 + 0.078161I		
u = 0.046940 - 0.495776I		
a = 0.665010 - 1.116330I	0.68765 + 1.39515I	-0.97323 - 4.26024I
b = 0.449357 - 0.078161I		

 $II. \\ I_2^u = \langle -1.78 \times 10^{76} u^{83} + 3.36 \times 10^{76} u^{82} + \dots + 4.02 \times 10^{76} b - 3.80 \times 10^{75}, \ 1.27 \times 10^{76} u^{83} - 1.95 \times 10^{76} u^{82} + \dots + 4.02 \times 10^{76} a - 7.98 \times 10^{76}, \ u^{84} - u^{83} + \dots - 8u + 1 \rangle$

(i) Arc colorings

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

$$a_{4} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.315458u^{83} + 0.486047u^{82} + \dots + 5.80096u + 1.98568 \\ 0.441574u^{83} - 0.835893u^{82} + \dots - 5.12507u + 0.0943996 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.789727u^{83} - 0.878458u^{82} + \dots + 11.7409u - 0.991810 \\ 0.518038u^{83} - 0.964879u^{82} + \dots - 4.65016u + 0.772193 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0980563u^{83} + 0.387555u^{82} + \dots + 12.6062u + 1.72069 \\ 0.0831270u^{83} - 0.0730730u^{82} + \dots - 4.39119u - 0.0245108 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.0825732u^{83} + 0.185608u^{82} + \dots + 5.35494u - 0.163213 \\ 0.241456u^{83} - 1.04811u^{82} + \dots + 5.35494u - 0.163213 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u^{2} + 1 \\ -u^{2} \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} 0.567135u^{83} + 0.694103u^{82} + \dots + 11.9492u + 1.30203 \\ 0.271257u^{83} - 0.00854034u^{82} + \dots - 3.68237u - 0.132308 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.934228u^{83} + 0.597004u^{82} + \dots + 6.80551u + 0.971587 \\ -0.0459951u^{83} + 0.774208u^{82} + \dots - 3.42474u + 0.306200 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-4.70327u^{83} + 5.21911u^{82} + \cdots + 16.9568u 8.13028$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4, c_7 c_{10}, c_{11}, c_{12}	$u^{84} + u^{83} + \dots + 8u + 1$
c_2, c_5	$u^{84} - 7u^{83} + \dots + 8u^2 + 1$
c_3, c_6	$u^{84} - u^{83} + \dots + 124914u + 10897$
c ₈	$(u^{42} + 9u^{41} + \dots - 19u - 1)^2$
<i>c</i> 9	$(u^{42} + 8u^{41} + \dots + 4u - 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_7 c_{10}, c_{11}, c_{12}	$y^{84} + 71y^{83} + \dots + 392y^2 + 1$
c_2, c_5	$y^{84} + 7y^{83} + \dots + 16y + 1$
c_3, c_6	$y^{84} - 29y^{83} + \dots + 1118832658y + 118744609$
c ₈	$(y^{42} - 29y^{41} + \dots - 99y + 1)^2$
<i>c</i> ₉	$(y^{42} - 42y^{41} + \dots - 64y + 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.518175 + 0.869909I		
a = -0.038515 - 0.361398I	-2.21491 - 3.65443I	0
b = -0.396322 - 0.279186I		
u = 0.518175 - 0.869909I		
a = -0.038515 + 0.361398I	-2.21491 + 3.65443I	0
b = -0.396322 + 0.279186I		
u = -0.486616 + 0.918991I		
a = 0.669010 - 0.149675I	2.27560 - 8.94034I	0
b = 0.548977 + 0.391483I		
u = -0.486616 - 0.918991I		
a = 0.669010 + 0.149675I	2.27560 + 8.94034I	0
b = 0.548977 - 0.391483I		
u = -0.433633 + 0.954309I		
a = -0.568715 + 0.074268I	-2.64853 - 4.93654I	0
b = -0.630900 - 0.351516I		
u = -0.433633 - 0.954309I		
a = -0.568715 - 0.074268I	-2.64853 + 4.93654I	0
b = -0.630900 + 0.351516I		
u = 0.874722 + 0.339102I		
a = 0.230055 - 0.515951I	-0.08162 - 4.63366I	0
b = -0.327717 - 0.197359I		
u = 0.874722 - 0.339102I		
a = 0.230055 + 0.515951I	-0.08162 + 4.63366I	0
b = -0.327717 + 0.197359I		
u = 0.922673 + 0.158839I		
a = 0.134609 - 0.475277I	-0.40808 + 2.05165I	0
b = -0.171410 - 0.216206I		
u = 0.922673 - 0.158839I		
a = 0.134609 + 0.475277I	-0.40808 - 2.05165I	0
b = -0.171410 + 0.216206I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.875995 + 0.247622I		
a = -0.202518 + 0.483595I	-4.19534 - 1.24503I	-19.3254 + 4.7543I
b = 0.264623 + 0.227684I		
u = 0.875995 - 0.247622I		
a = -0.202518 - 0.483595I	-4.19534 + 1.24503I	-19.3254 - 4.7543I
b = 0.264623 - 0.227684I		
u = 0.589935 + 0.687179I		
a = -0.092443 + 0.519015I	1.163260 - 0.381253I	-6.00000 + 5.04367I
b = 0.441781 + 0.227681I		
u = 0.589935 - 0.687179I		
a = -0.092443 - 0.519015I	1.163260 + 0.381253I	-6.00000 - 5.04367I
b = 0.441781 - 0.227681I		
u = 0.542934 + 0.983292I		
a = 0.024629 + 0.211855I	2.14428 - 7.17345I	0
b = 0.392576 + 0.359601I		
u = 0.542934 - 0.983292I		
a = 0.024629 - 0.211855I	2.14428 + 7.17345I	0
b = 0.392576 - 0.359601I		
u = -0.829852 + 0.247067I		
a = 1.064070 + 0.579575I	0.17793 + 13.60140I	-5.67868 - 8.84142I
b = -0.354088 + 0.962644I		
u = -0.829852 - 0.247067I		
a = 1.064070 - 0.579575I	0.17793 - 13.60140I	-5.67868 + 8.84142I
b = -0.354088 - 0.962644I		
u = -0.782980 + 0.182023I		
a = 1.108420 + 0.771590I	-2.64853 + 4.93654I	-8.21045 - 3.85583I
b = -0.240622 + 0.900055I		
u = -0.782980 - 0.182023I		
a = 1.108420 - 0.771590I	-2.64853 - 4.93654I	-8.21045 + 3.85583I
b = -0.240622 - 0.900055I		
		L

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.181275 + 1.215690I		
a = -0.97248 - 1.68480I	4.16290 - 2.67804I	0
b = 0.82732 + 2.93963I		
u = -0.181275 - 1.215690I		
a = -0.97248 + 1.68480I	4.16290 + 2.67804I	0
b = 0.82732 - 2.93963I		
u = -0.213038 + 1.221080I		
a = -0.273011 + 0.639939I	1.163260 - 0.381253I	0
b = 1.57872 - 0.41599I		
u = -0.213038 - 1.221080I		
a = -0.273011 - 0.639939I	1.163260 + 0.381253I	0
b = 1.57872 + 0.41599I		
u = 0.223743 + 1.261850I		
a = 1.64598 + 2.46908I	5.38892	0
b = -1.44659 - 2.87840I		
u = 0.223743 - 1.261850I		
a = 1.64598 - 2.46908I	5.38892	0
b = -1.44659 + 2.87840I		
u = -0.243997 + 1.261430I		
a = 0.79293 + 2.00931I	-0.40808 + 2.05165I	0
b = -0.39956 - 3.42872I		
u = -0.243997 - 1.261430I		
a = 0.79293 - 2.00931I	-0.40808 - 2.05165I	0
b = -0.39956 + 3.42872I		
u = 0.191076 + 1.275400I		
a = 1.83468 + 0.25198I	2.23419 - 2.19201I	0
b = -1.397140 - 0.155462I		
u = 0.191076 - 1.275400I		
a = 1.83468 - 0.25198I	2.23419 + 2.19201I	0
b = -1.397140 + 0.155462I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.654693 + 0.253029I		
a = -0.661570 - 0.897779I	5.45130 + 4.89000I	-2.04083 - 7.34150I
b = 0.126788 - 1.087400I		
u = -0.654693 - 0.253029I		
a = -0.661570 + 0.897779I	5.45130 - 4.89000I	-2.04083 + 7.34150I
b = 0.126788 + 1.087400I		
u = -0.097059 + 1.295830I		
a = -0.31003 - 1.38850I	7.82402 - 3.09693I	0
b = -0.73782 + 1.56661I		
u = -0.097059 - 1.295830I		
a = -0.31003 + 1.38850I	7.82402 + 3.09693I	0
b = -0.73782 - 1.56661I		
u = -0.689220 + 0.080903I		
a = 1.30178 + 1.19981I	-2.21491 + 3.65443I	-12.4846 - 8.5699I
b = 0.002720 + 0.837825I		
u = -0.689220 - 0.080903I		
a = 1.30178 - 1.19981I	-2.21491 - 3.65443I	-12.4846 + 8.5699I
b = 0.002720 - 0.837825I		
u = -0.396279 + 0.566081I		
a = -1.262610 - 0.217005I	6.62858 - 1.39134I	1.290119 + 0.468519I
b = -0.358488 - 0.131013I		
u = -0.396279 - 0.566081I		
a = -1.262610 + 0.217005I	6.62858 + 1.39134I	1.290119 - 0.468519I
b = -0.358488 + 0.131013I		
u = -0.264019 + 1.290660I		
a = 0.906071 - 0.047046I	-0.08162 + 4.63366I	0
b = -2.26160 - 0.54402I		
u = -0.264019 - 1.290660I		
a = 0.906071 + 0.047046I	-0.08162 - 4.63366I	0
b = -2.26160 + 0.54402I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.232670 + 1.297620I		
a = -2.13788 - 2.73733I	1.63132 - 3.03620I	0
b = 1.91976 + 3.02429I		
u = 0.232670 - 1.297620I		
a = -2.13788 + 2.73733I	1.63132 + 3.03620I	0
b = 1.91976 - 3.02429I		
u = -0.665673 + 0.116795I		
a = 1.98351 - 0.73015I	0.97628 + 5.72904I	-8.53885 - 9.66512I
b = 0.186269 - 0.357589I		
u = -0.665673 - 0.116795I		
a = 1.98351 + 0.73015I	0.97628 - 5.72904I	-8.53885 + 9.66512I
b = 0.186269 + 0.357589I		
u = -0.671665 + 0.028872I		
a = -1.86929 + 1.10308I	-4.19534 + 1.24503I	-19.3254 - 4.7543I
b = -0.181551 + 0.595117I		
u = -0.671665 - 0.028872I		
a = -1.86929 - 1.10308I	-4.19534 - 1.24503I	-19.3254 + 4.7543I
b = -0.181551 - 0.595117I		
u = -0.279831 + 1.311700I		
a = -0.44458 - 2.14417I	2.14428 + 7.17345I	0
b = -0.20861 + 3.37194I		
u = -0.279831 - 1.311700I		
a = -0.44458 + 2.14417I	2.14428 - 7.17345I	0
b = -0.20861 - 3.37194I		
u = 0.169101 + 1.333000I		
a = -1.96189 - 1.30999I	6.83951	0
b = 1.49632 + 1.40578I		
u = 0.169101 - 1.333000I		
a = -1.96189 + 1.30999I	6.83951	0
b = 1.49632 - 1.40578I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.271899 + 1.335600I		
a = -0.976790 - 0.436319I	5.55420 + 9.14579I	0
b = 2.12600 + 1.18794I		
u = -0.271899 - 1.335600I		
a = -0.976790 + 0.436319I	5.55420 - 9.14579I	0
b = 2.12600 - 1.18794I		
u = 0.253751 + 1.345840I		
a = -0.46166 + 1.46887I	3.26207 - 3.66273I	0
b = 0.20067 - 1.82877I		
u = 0.253751 - 1.345840I		
a = -0.46166 - 1.46887I	3.26207 + 3.66273I	0
b = 0.20067 + 1.82877I		
u = 0.400341 + 1.315590I		
a = -0.151092 + 0.581745I	4.16290 - 2.67804I	0
b = -0.210879 - 0.996363I		
u = 0.400341 - 1.315590I		
a = -0.151092 - 0.581745I	4.16290 + 2.67804I	0
b = -0.210879 + 0.996363I		
u = 0.618543 + 0.047649I		
a = 2.80528 + 0.04414I	1.63132 - 3.03620I	16.2002 - 11.9033I
b = -2.15290 + 0.03638I		
u = 0.618543 - 0.047649I		
a = 2.80528 - 0.04414I	1.63132 + 3.03620I	16.2002 + 11.9033I
b = -2.15290 - 0.03638I		
u = 0.601189 + 0.103705I		
a = 0.620455 - 0.101552I	-1.35422 - 0.52269I	-7.55055 - 0.33202I
b = -0.499415 - 0.638711I		
u = 0.601189 - 0.103705I		
a = 0.620455 + 0.101552I	-1.35422 + 0.52269I	-7.55055 + 0.33202I
b = -0.499415 + 0.638711I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.012027 + 1.402540I		
a = -0.83750 - 1.49408I	6.62858 - 1.39134I	0
b = 1.12949 + 2.23412I		
u = -0.012027 - 1.402540I		
a = -0.83750 + 1.49408I	6.62858 + 1.39134I	0
b = 1.12949 - 2.23412I		
u = -0.325385 + 1.374120I		
a = -0.25382 - 2.11881I	2.27560 + 8.94034I	0
b = -0.35289 + 3.10453I		
u = -0.325385 - 1.374120I		
a = -0.25382 + 2.11881I	2.27560 - 8.94034I	0
b = -0.35289 - 3.10453I		
u = -0.26872 + 1.38872I		
a = 0.27275 + 2.17820I	10.65060 + 8.27956I	0
b = 0.48372 - 3.10703I		
u = -0.26872 - 1.38872I		
a = 0.27275 - 2.17820I	10.65060 - 8.27956I	0
b = 0.48372 + 3.10703I		
u = -0.33963 + 1.39512I		
a = 0.21657 + 2.13132I	0.17793 + 13.60140I	0
b = 0.36363 - 3.07248I		
u = -0.33963 - 1.39512I		
a = 0.21657 - 2.13132I	0.17793 - 13.60140I	0
b = 0.36363 + 3.07248I		
u = 0.36831 + 1.39668I		
a = -0.009205 - 0.851401I	0.97628 - 5.72904I	0
b = 0.340567 + 1.271450I		
u = 0.36831 - 1.39668I		
a = -0.009205 + 0.851401I	0.97628 + 5.72904I	0
b = 0.340567 - 1.271450I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.21161 + 1.45666I		
a = -0.30774 - 1.38801I	7.82402 - 3.09693I	0
b = 0.58867 + 1.86348I		
u = 0.21161 - 1.45666I		
a = -0.30774 + 1.38801I	7.82402 + 3.09693I	0
b = 0.58867 - 1.86348I		
u = 0.04309 + 1.47202I		
a = 0.69091 + 1.44752I	5.45130 - 4.89000I	0
b = -1.01399 - 2.06695I		
u = 0.04309 - 1.47202I		
a = 0.69091 - 1.44752I	5.45130 + 4.89000I	0
b = -1.01399 + 2.06695I		
u = 0.36652 + 1.44263I		
a = 0.150102 + 0.905438I	5.55420 - 9.14579I	0
b = -0.47705 - 1.33644I		
u = 0.36652 - 1.44263I		
a = 0.150102 - 0.905438I	5.55420 + 9.14579I	0
b = -0.47705 + 1.33644I		
u = 0.02486 + 1.51626I		
a = -0.69442 - 1.38331I	10.65060 - 8.27956I	0
b = 1.06466 + 1.98709I		
u = 0.02486 - 1.51626I		
a = -0.69442 + 1.38331I	10.65060 + 8.27956I	0
b = 1.06466 - 1.98709I		
u = 0.411613 + 0.144017I		
a = -2.50177 - 0.61683I	2.23419 + 2.19201I	-3.74038 - 7.88851I
b = 1.344230 + 0.260671I		
u = 0.411613 - 0.144017I		
a = -2.50177 + 0.61683I	2.23419 - 2.19201I	-3.74038 + 7.88851I
b = 1.344230 - 0.260671I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.014444 + 0.316245I		
a = -2.50337 + 0.43646I	3.26207 - 3.66273I	-0.562666 + 0.820436I
b = 0.643308 + 0.986079I		
u = 0.014444 - 0.316245I		
a = -2.50337 - 0.43646I	3.26207 + 3.66273I	-0.562666 - 0.820436I
b = 0.643308 - 0.986079I		
u = 0.152196 + 0.142659I		
a = 3.54109 + 0.72739I	-1.35422 - 0.52269I	-7.55055 - 0.33202I
b = -0.751283 - 0.524651I		
u = 0.152196 - 0.142659I		
a = 3.54109 - 0.72739I	-1.35422 + 0.52269I	-7.55055 + 0.33202I
b = -0.751283 + 0.524651I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_4, c_7 c_{10}, c_{11}, c_{12}	$(u^{13} - 2u^{12} + \dots - u + 1)(u^{84} + u^{83} + \dots + 8u + 1)$
c_2, c_5	$(u^{13} + 2u^{10} + 7u^9 + 10u^6 + 12u^5 - 8u^4 + 4u^3 + 4u^2 + u - 1)$ $\cdot (u^{84} - 7u^{83} + \dots + 8u^2 + 1)$
c_3, c_6	$(u^{13} + 2u^{12} + \dots + 5u + 2)(u^{84} - u^{83} + \dots + 124914u + 10897)$
c ₈	$(u^{13} - 19u^{12} + \dots + 1856u - 256)(u^{42} + 9u^{41} + \dots - 19u - 1)^{2}$
<i>C</i> 9	$(u^{13} - 19u^{12} + \dots + 1344u - 192)(u^{42} + 8u^{41} + \dots + 4u - 1)^{2}$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_7 c_{10}, c_{11}, c_{12}	$(y^{13} + 12y^{12} + \dots - 7y - 1)(y^{84} + 71y^{83} + \dots + 392y^{2} + 1)$
c_2, c_5	$(y^{13} + 14y^{11} + \dots + 9y - 1)(y^{84} + 7y^{83} + \dots + 16y + 1)$
c_3, c_6	$(y^{13} - 4y^{12} + \dots - 39y - 4)$ $\cdot (y^{84} - 29y^{83} + \dots + 1118832658y + 118744609)$
<i>C</i> ₈	$(y^{13} - 35y^{12} + \dots + 135168y - 65536)$ $\cdot (y^{42} - 29y^{41} + \dots - 99y + 1)^{2}$
<i>c</i> ₉	$(y^{13} - 37y^{12} + \dots + 49152y - 36864)(y^{42} - 42y^{41} + \dots - 64y + 1)^{2}$