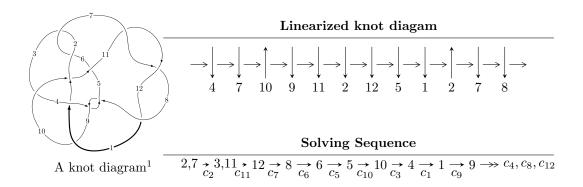
$12n_{0796} \ (K12n_{0796})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.55932 \times 10^{237} u^{68} + 4.63994 \times 10^{237} u^{67} + \dots + 4.94979 \times 10^{240} b + 1.30744 \times 10^{242}, \\ &7.84763 \times 10^{240} u^{68} - 1.52555 \times 10^{241} u^{67} + \dots + 8.51859 \times 10^{243} a + 7.61648 \times 10^{244}, \\ &u^{69} - 2 u^{68} + \dots + 5609 u + 1721 \rangle \\ I_2^u &= \langle -1472105 u^{20} + 1018220 u^{19} + \dots + 1155956 b - 2256995, \\ &969434 u^{20} - 866657 u^{19} + \dots + 1155956 a - 2244463, \ u^{21} - u^{20} + \dots + u - 1 \rangle \end{split}$$

* 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.
$$I_1^u = \langle 1.56 \times 10^{237} u^{68} + 4.64 \times 10^{237} u^{67} + \cdots + 4.95 \times 10^{240} b + 1.31 \times 10^{242}, \ 7.85 \times 10^{240} u^{68} - 1.53 \times 10^{241} u^{67} + \cdots + 8.52 \times 10^{243} a + 7.62 \times 10^{244}, \ u^{69} - 2u^{68} + \cdots + 5609 u + 1721 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.000921236u^{68} + 0.00179085u^{67} + \cdots - 43.1069u - 8.94101 \\ -0.000315028u^{68} - 0.000937401u^{67} + \cdots - 31.1935u - 26.4140 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.000921236u^{68} + 0.00179085u^{67} + \cdots - 43.1069u - 8.94101 \\ -0.000404125u^{68} - 0.00110399u^{67} + \cdots - 29.3185u - 26.3252 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.000650255u^{68} - 0.00261630u^{67} + \cdots - 27.0684u - 14.1292 \\ 0.00264634u^{68} - 0.00616524u^{67} + \cdots + 51.9013u - 0.182253 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.00238017u^{68} - 0.00420828u^{67} + \cdots + 72.7085u + 11.6824 \\ -0.00160834u^{68} + 0.00384638u^{67} + \cdots - 14.9392u + 5.56054 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.000606208u^{68} + 0.00272825u^{67} + \cdots - 11.9134u + 17.4730 \\ -0.000315336u^{68} - 0.00460678u^{67} + \cdots + 75.7131u + 28.1976 \\ -0.00117961u^{68} + 0.00385784u^{67} + \cdots + 8.86048u + 21.3205 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.00370793u^{68} + 0.00810308u^{67} + \cdots - 52.0777u - 5.15730 \\ -0.00114283u^{68} + 0.000233290u^{67} + \cdots - 63.0317u - 36.7696 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.00335059u^{68} - 0.00924250u^{67} + \cdots + 29.6036u - 19.7274 \\ 0.00574565u^{68} - 0.0116910u^{67} + \cdots + 104.318u + 9.12336 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.00547948u^{68} + 0.0175300u^{67} + \cdots 64.8102u + 67.4117$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{69} - 9u^{68} + \dots + 1142u - 73$
c_2, c_6	$u^{69} - 2u^{68} + \dots + 5609u + 1721$
<i>c</i> ₃	$u^{69} - 9u^{67} + \dots + 7145u + 559$
c_4, c_8	$u^{69} + 3u^{68} + \dots + 20u + 4$
<i>C</i> ₅	$u^{69} + u^{68} + \dots - 1168u + 437$
c_7, c_{11}, c_{12}	$u^{69} - 2u^{68} + \dots + 225u + 161$
<i>c</i> ₉	$u^{69} + 6u^{68} + \dots - 59u + 19$
c_{10}	$u^{69} - 38u^{67} + \dots + 3400u + 644$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{69} + 25y^{68} + \dots + 523064y - 5329$
c_{2}, c_{6}	$y^{69} + 70y^{68} + \dots - 122107391y - 2961841$
c_3	$y^{69} - 18y^{68} + \dots + 16869293y - 312481$
c_4, c_8	$y^{69} + 43y^{68} + \dots - 4352y - 16$
<i>C</i> ₅	$y^{69} + 91y^{68} + \dots - 22307192y - 190969$
c_7, c_{11}, c_{12}	$y^{69} - 64y^{68} + \dots - 149015y - 25921$
<i>c</i> ₉	$y^{69} + 2y^{68} + \dots - 9629y - 361$
c_{10}	$y^{69} - 76y^{68} + \dots + 45637904y - 414736$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.158298 + 0.986188I		
a = -0.272064 - 1.303170I	-5.58857 + 2.81982I	-8.00000 + 0.I
b = -0.115321 - 1.299330I		
u = -0.158298 - 0.986188I		
a = -0.272064 + 1.303170I	-5.58857 - 2.81982I	-8.00000 + 0.I
b = -0.115321 + 1.299330I		
u = 0.083642 + 1.056570I		
a = -0.337592 + 1.151720I	-1.73341 - 7.58301I	0
b = -0.02643 + 1.67928I		
u = 0.083642 - 1.056570I		
a = -0.337592 - 1.151720I	-1.73341 + 7.58301I	0
b = -0.02643 - 1.67928I		
u = 0.897841 + 0.622401I		
a = -1.013910 + 0.791688I	-3.24604 - 2.07530I	0
b = -0.926980 + 0.100178I		
u = 0.897841 - 0.622401I		
a = -1.013910 - 0.791688I	-3.24604 + 2.07530I	0
b = -0.926980 - 0.100178I		
u = -0.873469 + 0.076955I		
a = 0.183288 + 0.285846I	-1.062540 + 0.145716I	-4.45967 + 4.12515I
b = -0.406670 - 0.103429I		
u = -0.873469 - 0.076955I		
a = 0.183288 - 0.285846I	-1.062540 - 0.145716I	-4.45967 - 4.12515I
b = -0.406670 + 0.103429I		
u = -0.276545 + 1.134330I		
a = -0.419440 - 1.000890I	5.65453 + 1.08327I	0
b = -2.15654 - 0.20349I		
u = -0.276545 - 1.134330I		
a = -0.419440 + 1.000890I	5.65453 - 1.08327I	0
b = -2.15654 + 0.20349I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
-7.42057 - 0.68077I	-9.11367 - 4.86767I
-7.42057 + 0.68077I	-9.11367 + 4.86767I
-2.54675 + 1.17327I	-8.71427 - 1.88942I
-2.54675 - 1.17327I	-8.71427 + 1.88942I
2.06906 - 4.86203I	0
2.06906 + 4.86203I	0
-4.81193 + 0.89227I	-9.11144 + 1.07907I
-4.81193 - 0.89227I	-9.11144 - 1.07907I
-3.12815 - 2.49344I	-7.27898 + 4.57610I
-3.12815 + 2.49344I	-7.27898 - 4.57610I
	-7.42057 - 0.68077I $-7.42057 + 0.68077I$ $-2.54675 + 1.17327I$ $-2.54675 - 1.17327I$ $2.06906 - 4.86203I$ $-4.81193 + 0.89227I$ $-4.81193 - 0.89227I$ $-3.12815 - 2.49344I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.287570 + 0.252312I		
a = -0.798351 - 0.401734I	-3.53458 - 1.35311I	0
b = -0.700910 - 0.154778I		
u = -1.287570 - 0.252312I		
a = -0.798351 + 0.401734I	-3.53458 + 1.35311I	0
b = -0.700910 + 0.154778I		
u = 0.438476 + 0.526047I		
a = 1.039740 + 0.065197I	3.24596 - 0.23179I	-3.95693 + 3.09799I
b = 0.532056 - 0.185656I		
u = 0.438476 - 0.526047I		
a = 1.039740 - 0.065197I	3.24596 + 0.23179I	-3.95693 - 3.09799I
b = 0.532056 + 0.185656I		
u = 0.331403 + 0.571115I		
a = -0.336557 - 1.133840I	2.88430 + 3.68981I	-3.97105 - 4.01517I
b = -0.333318 + 0.405393I		
u = 0.331403 - 0.571115I		
a = -0.336557 + 1.133840I	2.88430 - 3.68981I	-3.97105 + 4.01517I
b = -0.333318 - 0.405393I		
u = 0.003294 + 1.405920I		
a = 0.424182 - 0.124262I	8.98523 - 1.65207I	0
b = 1.89700 - 0.41536I		
u = 0.003294 - 1.405920I		
a = 0.424182 + 0.124262I	8.98523 + 1.65207I	0
b = 1.89700 + 0.41536I		
u = 1.45256 + 0.09643I		
a = 0.882941 + 0.151010I	-1.63011 - 8.47566I	0
b = 1.014830 - 0.130294I		
u = 1.45256 - 0.09643I		
a = 0.882941 - 0.151010I	-1.63011 + 8.47566I	0
b = 1.014830 + 0.130294I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.50626 + 1.36552I		
a = -0.571385 + 0.832237I	-0.63369 - 3.48980I	0
b = -1.55177 + 0.45405I		
u = 0.50626 - 1.36552I		
a = -0.571385 - 0.832237I	-0.63369 + 3.48980I	0
b = -1.55177 - 0.45405I		
u = 0.304513 + 0.423795I		
a = -1.43929 + 2.57107I	-3.93150 + 6.37374I	-6.00431 - 0.55984I
b = 0.350883 - 0.574081I		
u = 0.304513 - 0.423795I		
a = -1.43929 - 2.57107I	-3.93150 - 6.37374I	-6.00431 + 0.55984I
b = 0.350883 + 0.574081I		
u = -1.45998 + 0.32838I		
a = 0.778216 + 0.237416I	-4.12698 - 1.49086I	0
b = 1.146240 - 0.151845I		
u = -1.45998 - 0.32838I		
a = 0.778216 - 0.237416I	-4.12698 + 1.49086I	0
b = 1.146240 + 0.151845I		
u = 0.76152 + 1.29459I		
a = 0.565850 - 0.600524I	6.56829 - 3.06698I	0
b = 1.73177 - 0.07649I		
u = 0.76152 - 1.29459I		
a = 0.565850 + 0.600524I	6.56829 + 3.06698I	0
b = 1.73177 + 0.07649I		
u = 0.16311 + 1.51940I		
a = -0.278382 + 0.891128I	3.87490 - 4.93069I	0
b = -1.59418 + 1.00854I		
u = 0.16311 - 1.51940I		
a = -0.278382 - 0.891128I	3.87490 + 4.93069I	0
b = -1.59418 - 1.00854I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.11712 + 1.52857I		
a = 0.503854 - 0.260580I	5.16690 + 0.91358I	0
b = 1.52489 + 0.06927I		
u = 0.11712 - 1.52857I		
a = 0.503854 + 0.260580I	5.16690 - 0.91358I	0
b = 1.52489 - 0.06927I		
u = -0.20757 + 1.56047I		
a = -0.180163 - 0.719584I	3.38686 + 3.48426I	0
b = -1.35279 - 0.83587I		
u = -0.20757 - 1.56047I		
a = -0.180163 + 0.719584I	3.38686 - 3.48426I	0
b = -1.35279 + 0.83587I		
u = -0.12399 + 1.59477I		
a = 0.681440 + 0.660461I	8.17838 - 3.00736I	0
b = 1.63144 + 0.20640I		
u = -0.12399 - 1.59477I		
a = 0.681440 - 0.660461I	8.17838 + 3.00736I	0
b = 1.63144 - 0.20640I		
u = 0.06103 + 1.60204I		
a = 0.782383 - 0.156927I	5.14159 + 1.38074I	0
b = 1.60703 + 0.02690I		
u = 0.06103 - 1.60204I		
a = 0.782383 + 0.156927I	5.14159 - 1.38074I	0
b = 1.60703 - 0.02690I		
u = -0.50160 + 1.56330I		
a = -0.605057 - 0.716082I	1.18052 + 8.01996I	0
b = -1.51304 - 0.58879I		
u = -0.50160 - 1.56330I		
a = -0.605057 + 0.716082I	1.18052 - 8.01996I	0
b = -1.51304 + 0.58879I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.108395 + 0.310529I		
a = 2.04945 - 0.08178I	1.60702 - 4.33264I	-3.39028 + 0.73355I
b = 0.519163 - 1.201190I		
u = -0.108395 - 0.310529I		
a = 2.04945 + 0.08178I	1.60702 + 4.33264I	-3.39028 - 0.73355I
b = 0.519163 + 1.201190I		
u = 0.31783 + 1.64373I		
a = -0.410181 - 0.179193I	9.72300 + 0.50483I	0
b = -1.56558 - 0.16838I		
u = 0.31783 - 1.64373I		
a = -0.410181 + 0.179193I	9.72300 - 0.50483I	0
b = -1.56558 + 0.16838I		
u = -0.112837 + 0.298176I		
a = 1.372770 + 0.307949I	-0.66690 + 1.42409I	-5.32505 - 6.58254I
b = 0.223037 + 0.869700I		
u = -0.112837 - 0.298176I		
a = 1.372770 - 0.307949I	-0.66690 - 1.42409I	-5.32505 + 6.58254I
b = 0.223037 - 0.869700I		
u = -0.312476		
a = 1.51887	-0.836204	-10.8240
b = -0.349862		
u = -0.27602 + 1.70711I		
a = -0.473587 - 0.096462I	5.92558 + 5.18269I	0
b = -1.57240 - 0.17128I		
u = -0.27602 - 1.70711I		
a = -0.473587 + 0.096462I	5.92558 - 5.18269I	0
b = -1.57240 + 0.17128I		
u = 0.31729 + 1.70235I		
a = 0.215927 - 0.598368I	4.02110 + 1.66857I	0
b = 1.142090 - 0.229954I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.31729 - 1.70235I		
a = 0.215927 + 0.598368I	4.02110 - 1.66857I	0
b = 1.142090 + 0.229954I		
u = 0.26471 + 1.72015I		
a = -0.676450 + 0.114182I	10.1818 - 10.1391I	0
b = -1.78553 + 0.24731I		
u = 0.26471 - 1.72015I		
a = -0.676450 - 0.114182I	10.1818 + 10.1391I	0
b = -1.78553 - 0.24731I		
u = 0.56884 + 1.65411I		
a = 0.528673 - 0.738965I	4.1767 - 15.8025I	0
b = 1.73021 - 0.61726I		
u = 0.56884 - 1.65411I		
a = 0.528673 + 0.738965I	4.1767 + 15.8025I	0
b = 1.73021 + 0.61726I		
u = -0.66790 + 1.62331I		
a = 0.490922 + 0.682589I	0.41185 + 9.31633I	0
b = 1.64092 + 0.46630I		
u = -0.66790 - 1.62331I		
a = 0.490922 - 0.682589I	0.41185 - 9.31633I	0
b = 1.64092 - 0.46630I		
u = -0.05409 + 1.77796I		
a = 0.214954 + 0.777838I	4.73411 + 4.44269I	0
b = 1.230930 + 0.437174I		
u = -0.05409 - 1.77796I		
a = 0.214954 - 0.777838I	4.73411 - 4.44269I	0
b = 1.230930 - 0.437174I		

 $I_2^u = \langle -1.47 \times 10^6 u^{20} + 1.02 \times 10^6 u^{19} + \dots + 1.16 \times 10^6 b - 2.26 \times 10^6, \ 9.69 \times 10^5 u^{20} - 8.67 \times 10^5 u^{19} + \dots + 1.16 \times 10^6 a - 2.24 \times 10^6, \ u^{21} - u^{20} + \dots + u - 1 \rangle$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.838643u^{20} + 0.749732u^{19} + \dots - 0.873164u + 1.94165 \\ 1.27350u^{20} - 0.880847u^{19} + \dots + 0.587410u + 1.95249 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.838643u^{20} + 0.749732u^{19} + \dots - 0.873164u + 1.94165 \\ 0.936639u^{20} - 0.594961u^{19} + \dots - 0.162322u + 1.86358 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1.75994u^{20} + 1.25748u^{19} + \dots - 8.26896u + 2.95195 \\ 2.45099u^{20} - 0.835356u^{19} + \dots - 0.576876u + 3.00745 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -1.13843u^{20} - 1.31272u^{19} + \dots + 8.94957u - 2.96191 \\ 0.218346u^{20} - 0.0130316u^{19} + \dots + 1.52471u + 0.716223 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -2.11214u^{20} + 1.63058u^{19} + \dots - 1.46057u - 0.0108412 \\ 1.27350u^{20} - 0.880847u^{19} + \dots + 0.587410u + 1.95249 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -3.37269u^{20} + 2.25418u^{19} + \dots - 0.270532u - 1.59771 \\ 0.911568u^{20} - 0.205314u^{19} + \dots - 0.283777u + 1.12991 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.0729249u^{20} - 0.544418u^{19} + \dots + 1.15694u - 3.07156 \\ -1.75142u^{20} + 0.273581u^{19} + \dots + 0.0784632u - 0.836167 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -1.97499u^{20} + 2.56253u^{19} + \dots + 0.0537434u - 3.30592 \\ 0.305597u^{20} + 0.371861u^{19} + \dots + 1.77387u + 2.31582 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{3328575}{288989}u^{20} - \frac{3093691}{577978}u^{19} + \dots + \frac{1150671}{577978}u + \frac{97487}{577978}u^{19} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{21} - 4u^{20} + \dots + 4u - 1$
c_2	$u^{21} - u^{20} + \dots + u - 1$
c_3	$u^{21} + u^{20} + \dots + 13u + 9$
c_4	$u^{21} + 2u^{20} + \dots + 8u + 4$
c_5	$u^{21} + 7u^{19} + \dots + 30u + 1$
<i>C</i> ₆	$u^{21} + u^{20} + \dots + u + 1$
	$u^{21} - u^{20} + \dots + 5u - 1$
<i>c</i> ₈	$u^{21} - 2u^{20} + \dots + 8u - 4$
<i>c</i> ₉	$u^{21} + u^{20} + \dots - 3u - 1$
c_{10}	$u^{21} - 3u^{20} + \dots + 12u - 4$
c_{11}, c_{12}	$u^{21} + u^{20} + \dots + 5u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{21} + 8y^{20} + \dots - 4y - 1$
c_2, c_6	$y^{21} + 13y^{20} + \dots + 9y - 1$
<i>c</i> ₃	$y^{21} - 3y^{20} + \dots - 83y - 81$
c_4, c_8	$y^{21} + 14y^{20} + \dots - 112y - 16$
<i>C</i> ₅	$y^{21} + 14y^{20} + \dots + 864y - 1$
c_7, c_{11}, c_{12}	$y^{21} - 25y^{20} + \dots + 9y - 1$
<i>c</i> ₉	$y^{21} - 3y^{20} + \dots - y - 1$
c_{10}	$y^{21} - 17y^{20} + \dots - 64y - 16$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.561157 + 0.901561I		
a = -0.68758 - 1.44240I	-5.00046 + 1.80387I	-12.21784 - 5.60758I
b = -0.590397 - 0.678765I		
u = -0.561157 - 0.901561I		
a = -0.68758 + 1.44240I	-5.00046 - 1.80387I	-12.21784 + 5.60758I
b = -0.590397 + 0.678765I		
u = 0.807360 + 0.286313I		
a = -1.38109 + 0.86594I	-4.40952 + 1.11701I	-14.5809 - 2.0497I
b = -0.587723 + 0.592712I		
u = 0.807360 - 0.286313I		
a = -1.38109 - 0.86594I	-4.40952 - 1.11701I	-14.5809 + 2.0497I
b = -0.587723 - 0.592712I		
u = 0.743753 + 0.239370I		
a = -0.276431 + 0.285848I	-1.33875 + 0.63912I	-11.08801 - 5.90714I
b = 0.508126 + 0.521370I		
u = 0.743753 - 0.239370I		
a = -0.276431 - 0.285848I	-1.33875 - 0.63912I	-11.08801 + 5.90714I
b = 0.508126 - 0.521370I		
u = -0.645247 + 0.396216I		
a = -0.362993 + 0.499905I	0.95419 + 5.02373I	-10.96767 - 6.73427I
b = 0.171757 + 0.896114I		
u = -0.645247 - 0.396216I		
a = -0.362993 - 0.499905I	0.95419 - 5.02373I	-10.96767 + 6.73427I
b = 0.171757 - 0.896114I		
u = 1.24638		
a = -0.985958	-4.18100	-9.64630
b = -1.01348		
u = 0.011700 + 1.320960I		
a = 0.316294 - 0.431096I	7.96622 + 0.10384I	-4.19566 - 0.46618I
b = 1.72321 - 0.15242I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.011700 - 1.320960I		
a = 0.316294 + 0.431096I	7.96622 - 0.10384I	-4.19566 + 0.46618I
b = 1.72321 + 0.15242I		
u = -0.435613 + 1.277620I		
a = -0.403231 - 0.827190I	5.47011 + 2.02608I	-7.19785 - 3.46074I
b = -1.96724 - 0.36213I		
u = -0.435613 - 1.277620I		
a = -0.403231 + 0.827190I	5.47011 - 2.02608I	-7.19785 + 3.46074I
b = -1.96724 + 0.36213I		
u = 0.511370 + 0.359085I		
a = 1.95727 - 1.44685I	-7.65043 + 1.27003I	-13.8530 - 5.9198I
b = -0.377286 - 0.543412I		
u = 0.511370 - 0.359085I		
a = 1.95727 + 1.44685I	-7.65043 - 1.27003I	-13.8530 + 5.9198I
b = -0.377286 + 0.543412I		
u = -0.512008 + 0.216126I		
a = 2.53508 + 0.79978I	-4.42994 + 7.07571I	-12.1028 - 7.6122I
b = 0.013476 - 0.796482I		
u = -0.512008 - 0.216126I		
a = 2.53508 - 0.79978I	-4.42994 - 7.07571I	-12.1028 + 7.6122I
b = 0.013476 + 0.796482I		
u = -0.18694 + 1.62746I		
a = 0.543871 + 0.241555I	6.13244 - 1.40053I	-1.40328 + 1.79349I
b = 1.41334 - 0.08784I		
u = -0.18694 - 1.62746I		
a = 0.543871 - 0.241555I	6.13244 + 1.40053I	-1.40328 - 1.79349I
b = 1.41334 + 0.08784I		
u = 0.14359 + 1.63447I		
a = -0.248205 + 0.792792I	2.75172 - 5.22509I	-10.06988 + 5.83206I
b = -1.30052 + 0.82918I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.14359 - 1.63447I		
a = -0.248205 - 0.792792I	2.75172 + 5.22509I	-10.06988 - 5.83206I
b = -1.30052 - 0.82918I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing	
c_1	$ \left (u^{21} - 4u^{20} + \dots + 4u - 1)(u^{69} - 9u^{68} + \dots + 1142u - 73) \right $	
c_2	$(u^{21} - u^{20} + \dots + u - 1)(u^{69} - 2u^{68} + \dots + 5609u + 1721)$	
c_3	$(u^{21} + u^{20} + \dots + 13u + 9)(u^{69} - 9u^{67} + \dots + 7145u + 559)$	
C ₄	$(u^{21} + 2u^{20} + \dots + 8u + 4)(u^{69} + 3u^{68} + \dots + 20u + 4)$	
<i>C</i> ₅	$(u^{21} + 7u^{19} + \dots + 30u + 1)(u^{69} + u^{68} + \dots - 1168u + 437)$	
c_6	$(u^{21} + u^{20} + \dots + u + 1)(u^{69} - 2u^{68} + \dots + 5609u + 1721)$	
c_7	$ (u^{21} - u^{20} + \dots + 5u - 1)(u^{69} - 2u^{68} + \dots + 225u + 161) $	
c_8	$ (u^{21} - 2u^{20} + \dots + 8u - 4)(u^{69} + 3u^{68} + \dots + 20u + 4) $	
<i>c</i> 9	$(u^{21} + u^{20} + \dots - 3u - 1)(u^{69} + 6u^{68} + \dots - 59u + 19)$	
c_{10}	$(u^{21} - 3u^{20} + \dots + 12u - 4)(u^{69} - 38u^{67} + \dots + 3400u + 644)$	
c_{11}, c_{12}	$(u^{21} + u^{20} + \dots + 5u + 1)(u^{69} - 2u^{68} + \dots + 225u + 161)$	

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1	$ (y^{21} + 8y^{20} + \dots - 4y - 1)(y^{69} + 25y^{68} + \dots + 523064y - 5329) $	
c_2, c_6	$(y^{21} + 13y^{20} + \dots + 9y - 1)$ $\cdot (y^{69} + 70y^{68} + \dots - 122107391y - 2961841)$	
c_3	$(y^{21} - 3y^{20} + \dots - 83y - 81)$ $\cdot (y^{69} - 18y^{68} + \dots + 16869293y - 312481)$	
c_4, c_8	$(y^{21} + 14y^{20} + \dots - 112y - 16)(y^{69} + 43y^{68} + \dots - 4352y - 16)$	
c_5	$(y^{21} + 14y^{20} + \dots + 864y - 1)$ $\cdot (y^{69} + 91y^{68} + \dots - 22307192y - 190969)$	
c_7, c_{11}, c_{12}	$(y^{21} - 25y^{20} + \dots + 9y - 1)(y^{69} - 64y^{68} + \dots - 149015y - 25921)$	
<i>C</i> 9	$(y^{21} - 3y^{20} + \dots - y - 1)(y^{69} + 2y^{68} + \dots - 9629y - 361)$	
c_{10}	$(y^{21} - 17y^{20} + \dots - 64y - 16)$ $\cdot (y^{69} - 76y^{68} + \dots + 45637904y - 414736)$	