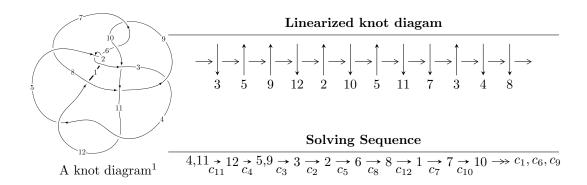
$12n_{0540} \ (K12n_{0540})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -3.47946 \times 10^{114} u^{67} + 5.80911 \times 10^{114} u^{66} + \dots + 2.34165 \times 10^{114} b + 9.83922 \times 10^{115}, \\ &1.83497 \times 10^{116} u^{67} - 3.18289 \times 10^{116} u^{66} + \dots + 1.63915 \times 10^{115} a - 6.53773 \times 10^{117}, \\ &u^{68} - 2u^{67} + \dots - 116u + 7 \rangle \\ I_2^u &= \langle 5848837527u^{22} + 13674615497u^{21} + \dots + 52233066871b + 111138789648, \\ &7655480010u^{22} + 231901700034u^{21} + \dots + 679029869323a + 1495389378052, \\ &u^{23} - u^{22} + \dots + 7u - 13 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 91 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.
$$I_1^u = \langle -3.48 \times 10^{114} u^{67} + 5.81 \times 10^{114} u^{66} + \dots + 2.34 \times 10^{114} b + 9.84 \times 10^{115}, \ 1.83 \times 10^{116} u^{67} - 3.18 \times 10^{116} u^{66} + \dots + 1.64 \times 10^{115} a - 6.54 \times 10^{117}, \ u^{68} - 2u^{67} + \dots - 116u + 7 \rangle$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} -11.1946u^{67} + 19.4179u^{66} + \cdots - 4458.06u + 398.848 \\ 1.48590u^{67} - 2.48078u^{66} + \cdots + 478.228u - 42.0184 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 2.99528u^{67} - 8.06816u^{66} + \cdots + 2059.11u - 186.296 \\ -2.40290u^{67} + 3.48812u^{66} + \cdots + 722.342u + 62.8761 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 2.86290u^{67} - 7.77263u^{66} + \cdots + 1979.48u - 179.800 \\ -1.95630u^{67} + 3.03856u^{66} + \cdots - 638.210u + 56.1653 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 6.23282u^{67} - 9.22792u^{66} + \cdots + 1916.42u - 165.385 \\ 0.664956u^{67} - 0.0247150u^{66} + \cdots - 88.8156u + 11.7141 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -9.70871u^{67} + 16.9371u^{66} + \cdots - 3979.83u + 356.830 \\ 1.48590u^{67} - 2.48078u^{66} + \cdots + 478.228u - 42.0184 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 3.04846u^{67} - 9.72123u^{66} + \cdots + 2742.54u - 254.243 \\ -2.53855u^{67} + 3.80062u^{66} + \cdots + 2742.54u - 254.243 \\ -2.53855u^{67} + 3.80062u^{66} + \cdots - 783.316u + 67.5088 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -10.5542u^{67} + 17.7616u^{66} + \cdots - 3993.89u + 354.809 \\ 1.59941u^{67} - 2.25196u^{66} + \cdots + 397.680u - 33.9317 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -2.77331u^{67} + 5.28127u^{66} + \cdots - 1350.34u + 125.631 \\ 1.09656u^{67} - 0.524123u^{66} + \cdots - 2.65244u + 2.93062 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-3.24479u^{67} + 8.28537u^{66} + \cdots 1873.76u + 165.568$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{68} + 83u^{67} + \dots + 50717133u + 1247689$
c_2, c_5	$u^{68} + 3u^{67} + \dots + 2197u + 1117$
c_3	$u^{68} + u^{67} + \dots + 3064u + 911$
c_4, c_{11}	$u^{68} + 2u^{67} + \dots + 116u + 7$
c_{6}, c_{9}	$u^{68} + 4u^{67} + \dots - 34u + 3$
c_7	$u^{68} + 12u^{67} + \dots + 789947u + 129293$
c ₈	$u^{68} - 9u^{66} + \dots - 28u + 88$
c_{10}	$u^{68} - 2u^{67} + \dots + 1328829u + 2269219$
c_{12}	$u^{68} + u^{67} + \dots - 3738678u + 370609$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing		
c_1	$y^{68} - 177y^{67} + \dots - 202908028705639y + 1556727840721$		
c_2, c_5	$y^{68} + 83y^{67} + \dots + 50717133y + 1247689$		
	$y^{68} + 21y^{67} + \dots + 24920164y + 829921$		
c_4,c_{11}	$y^{68} - 48y^{67} + \dots - 2858y + 49$		
c_6, c_9	$y^{68} + 8y^{67} + \dots - 220y + 9$		
	$y^{68} + 68y^{67} + \dots + 2855259918707y + 16716679849$		
C ₈	$y^{68} - 18y^{67} + \dots + 160432y + 7744$		
c_{10}	$y^{68} + 52y^{67} + \dots + 220850551819415y + 5149354869961$		
c_{12}	$y^{68} - 45y^{67} + \dots - 1916711732460y + 137351030881$		

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.947765 + 0.357665I		
a = 0.040563 + 1.213920I	-1.10242 - 1.88768I	0
b = -0.628775 - 0.554793I		
u = 0.947765 - 0.357665I		
a = 0.040563 - 1.213920I	-1.10242 + 1.88768I	0
b = -0.628775 + 0.554793I		
u = -0.206261 + 1.007020I		
a = 0.906803 - 0.883651I	-9.04368 + 2.56194I	0
b = -1.166080 + 0.709081I		
u = -0.206261 - 1.007020I		
a = 0.906803 + 0.883651I	-9.04368 - 2.56194I	0
b = -1.166080 - 0.709081I		
u = -0.952275 + 0.015155I		
a = -0.389347 + 1.110760I	-6.56999 + 0.14060I	-5.76756 + 0.I
b = -1.51867 - 0.44627I		
u = -0.952275 - 0.015155I		
a = -0.389347 - 1.110760I	-6.56999 - 0.14060I	-5.76756 + 0.I
b = -1.51867 + 0.44627I		
u = 0.119156 + 1.120550I		
a = 0.632936 + 0.272438I	0.601823 - 0.891457I	0
b = -0.526423 + 0.033002I		
u = 0.119156 - 1.120550I		
a = 0.632936 - 0.272438I	0.601823 + 0.891457I	0
b = -0.526423 - 0.033002I		
u = 1.131540 + 0.066351I		
a = -1.34290 - 1.03710I	-3.61434 - 1.69153I	0
b = -0.842012 + 0.236969I		
u = 1.131540 - 0.066351I		
a = -1.34290 + 1.03710I	-3.61434 + 1.69153I	0
b = -0.842012 - 0.236969I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.125430 + 0.171124I		
a = -0.153836 + 0.563315I	-10.13300 - 5.69758I	0
b = 1.11877 - 2.59647I		
u = 1.125430 - 0.171124I		
a = -0.153836 - 0.563315I	-10.13300 + 5.69758I	0
b = 1.11877 + 2.59647I		
u = 0.175099 + 0.838478I		
a = 0.638073 + 0.706860I	0.31102 - 1.89447I	-2.64082 + 6.58964I
b = -0.333831 - 0.671397I		
u = 0.175099 - 0.838478I		
a = 0.638073 - 0.706860I	0.31102 + 1.89447I	-2.64082 - 6.58964I
b = -0.333831 + 0.671397I		
u = -1.088590 + 0.350394I		
a = 0.578583 + 0.954503I	1.42621 + 5.22038I	0
b = 1.31358 - 0.94934I		
u = -1.088590 - 0.350394I		
a = 0.578583 - 0.954503I	1.42621 - 5.22038I	0
b = 1.31358 + 0.94934I		
u = 1.141830 + 0.179993I		
a = 0.82568 - 1.37936I	-0.61521 - 4.20240I	0
b = 0.908474 + 0.921235I		
u = 1.141830 - 0.179993I		
a = 0.82568 + 1.37936I	-0.61521 + 4.20240I	0
b = 0.908474 - 0.921235I		
u = -0.043094 + 1.162240I		
a = -0.911498 + 0.621527I	-8.72944 + 10.14780I	0
b = 1.098450 - 0.740956I		
u = -0.043094 - 1.162240I		
a = -0.911498 - 0.621527I	-8.72944 - 10.14780I	0
b = 1.098450 + 0.740956I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.730243 + 0.911092I		
a = 0.436558 - 0.057088I	-0.33349 - 2.89073I	0
b = -0.035935 + 0.195728I		
u = 0.730243 - 0.911092I		
a = 0.436558 + 0.057088I	-0.33349 + 2.89073I	0
b = -0.035935 - 0.195728I		
u = -1.180250 + 0.039699I		
a = -0.322263 - 0.642592I	-4.90609 + 1.45309I	0
b = -1.36957 + 0.98710I		
u = -1.180250 - 0.039699I		
a = -0.322263 + 0.642592I	-4.90609 - 1.45309I	0
b = -1.36957 - 0.98710I		
u = -1.176600 + 0.191135I		
a = -1.93965 + 0.51920I	-10.52210 + 6.41640I	0
b = -0.695306 + 0.367890I		
u = -1.176600 - 0.191135I		
a = -1.93965 - 0.51920I	-10.52210 - 6.41640I	0
b = -0.695306 - 0.367890I		
u = 0.060621 + 1.190540I		
a = -0.571573 - 0.371721I	-0.46876 - 4.20757I	0
b = 0.867630 + 0.303277I		
u = 0.060621 - 1.190540I		
a = -0.571573 + 0.371721I	-0.46876 + 4.20757I	0
b = 0.867630 - 0.303277I		
u = -1.182210 + 0.170919I		
a = 0.088084 - 0.589191I	-2.89595 + 4.08070I	0
b = 0.714259 + 1.051810I		
u = -1.182210 - 0.170919I		
a = 0.088084 + 0.589191I	-2.89595 - 4.08070I	0
b = 0.714259 - 1.051810I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.404834 + 0.685829I		
a = -0.940474 - 0.323677I	3.55477 - 1.28710I	5.05160 + 1.04556I
b = 0.693348 + 0.865586I		
u = -0.404834 - 0.685829I		
a = -0.940474 + 0.323677I	3.55477 + 1.28710I	5.05160 - 1.04556I
b = 0.693348 - 0.865586I		
u = 1.223450 + 0.114208I		
a = 0.838650 + 0.592410I	-3.07031 - 0.92088I	0
b = 0.466055 - 0.033333I		
u = 1.223450 - 0.114208I		
a = 0.838650 - 0.592410I	-3.07031 + 0.92088I	0
b = 0.466055 + 0.033333I		
u = 1.242620 + 0.025631I		
a = 0.032890 - 0.504754I	-11.42940 + 2.92629I	0
b = -1.72206 + 2.06580I		
u = 1.242620 - 0.025631I		
a = 0.032890 + 0.504754I	-11.42940 - 2.92629I	0
b = -1.72206 - 2.06580I		
u = -1.275810 + 0.008672I		
a = 1.30907 + 1.34723I	-12.42140 + 2.86949I	0
b = 0.772778 + 0.039008I		
u = -1.275810 - 0.008672I		
a = 1.30907 - 1.34723I	-12.42140 - 2.86949I	0
b = 0.772778 - 0.039008I		
u = 1.091170 + 0.758270I		
a = -0.048055 - 0.621973I	-5.10581 - 3.43321I	0
b = 1.388680 + 0.122425I		
u = 1.091170 - 0.758270I		
a = -0.048055 + 0.621973I	-5.10581 + 3.43321I	0
b = 1.388680 - 0.122425I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.269780 + 0.488456I		
a = 0.006811 - 1.078700I	-3.69503 + 6.20269I	0
b = -0.742033 + 0.701033I		
u = -1.269780 - 0.488456I		
a = 0.006811 + 1.078700I	-3.69503 - 6.20269I	0
b = -0.742033 - 0.701033I		
u = 0.011349 + 0.622403I		
a = 0.565810 + 1.046550I	0.84600 - 1.53956I	1.33813 + 2.18949I
b = 0.180164 - 0.381969I		
u = 0.011349 - 0.622403I		
a = 0.565810 - 1.046550I	0.84600 + 1.53956I	1.33813 - 2.18949I
b = 0.180164 + 0.381969I		
u = 1.38641 + 0.42602I		
a = -0.380161 + 1.136250I	-14.0339 - 7.5741I	0
b = -1.45552 - 0.92583I		
u = 1.38641 - 0.42602I		
a = -0.380161 - 1.136250I	-14.0339 + 7.5741I	0
b = -1.45552 + 0.92583I		
u = -1.38018 + 0.44717I		
a = -0.180863 - 0.851166I	-4.53688 + 6.71623I	0
b = -1.05821 + 1.05211I		
u = -1.38018 - 0.44717I		
a = -0.180863 + 0.851166I	-4.53688 - 6.71623I	0
b = -1.05821 - 1.05211I		
u = -1.30930 + 0.68061I		
a = 0.466558 - 0.599062I	-12.20000 + 3.56524I	0
b = -1.119230 - 0.290691I		
u = -1.30930 - 0.68061I		
a = 0.466558 + 0.599062I	-12.20000 - 3.56524I	0
b = -1.119230 + 0.290691I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.39983 + 0.51827I		
a = 0.251477 + 0.976417I	-5.13007 + 10.12020I	0
b = 1.203380 - 0.632990I		
u = -1.39983 - 0.51827I		
a = 0.251477 - 0.976417I	-5.13007 - 10.12020I	0
b = 1.203380 + 0.632990I		
u = 1.39753 + 0.53362I		
a = 0.246829 - 1.107490I	-13.2811 - 16.0932I	0
b = 1.48762 + 0.95191I		
u = 1.39753 - 0.53362I		
a = 0.246829 + 1.107490I	-13.2811 + 16.0932I	0
b = 1.48762 - 0.95191I		
u = 1.40478 + 0.55900I		
a = 0.067000 + 0.648345I	-3.60803 - 5.31106I	0
b = -1.010050 - 0.582448I		
u = 1.40478 - 0.55900I		
a = 0.067000 - 0.648345I	-3.60803 + 5.31106I	0
b = -1.010050 + 0.582448I		
u = 1.44778 + 0.50507I		
a = 0.107561 - 0.627005I	-5.13201 - 2.07157I	0
b = 1.060660 + 0.226591I		
u = 1.44778 - 0.50507I		
a = 0.107561 + 0.627005I	-5.13201 + 2.07157I	0
b = 1.060660 - 0.226591I		
u = 0.373319 + 0.206165I		
a = -2.73778 - 0.45710I	1.78723 + 2.33202I	-4.39316 - 1.89690I
b = 0.508605 - 0.537274I		
u = 0.373319 - 0.206165I		
a = -2.73778 + 0.45710I	1.78723 - 2.33202I	-4.39316 + 1.89690I
b = 0.508605 + 0.537274I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.249284 + 0.339745I		
a = 2.71001 - 0.73800I	-7.68973 + 3.58621I	-2.25293 - 1.72671I
b = 0.947188 + 1.031140I		
u = 0.249284 - 0.339745I		
a = 2.71001 + 0.73800I	-7.68973 - 3.58621I	-2.25293 + 1.72671I
b = 0.947188 - 1.031140I		
u = -1.47747 + 0.55770I		
a = -0.303874 + 0.589982I	-13.22700 - 3.78980I	0
b = 0.961351 + 0.168628I		
u = -1.47747 - 0.55770I		
a = -0.303874 - 0.589982I	-13.22700 + 3.78980I	0
b = 0.961351 - 0.168628I		
u = -0.097604 + 0.392483I		
a = -1.27273 + 2.72091I	-7.38084 - 4.11631I	-1.81227 + 1.53073I
b = -0.788066 - 1.085820I		
u = -0.097604 - 0.392483I		
a = -1.27273 - 2.72091I	-7.38084 + 4.11631I	-1.81227 - 1.53073I
b = -0.788066 + 1.085820I		
u = 0.184696 + 0.005265I		
a = 1.31649 - 3.97124I	-1.19167 + 1.07394I	-6.06832 - 1.82745I
b = -0.679221 + 0.376391I		
u = 0.184696 - 0.005265I		
a = 1.31649 + 3.97124I	-1.19167 - 1.07394I	-6.06832 + 1.82745I
b = -0.679221 - 0.376391I		

 $II. \\ I_2^u = \langle 5.85 \times 10^9 u^{22} + 1.37 \times 10^{10} u^{21} + \dots + 5.22 \times 10^{10} b + 1.11 \times 10^{11}, \ 7.66 \times 10^9 u^{22} + 2.32 \times 10^{11} u^{21} + \dots + 6.79 \times 10^{11} a + 1.50 \times 10^{12}, \ u^{23} - u^{22} + \dots + 7u - 13 \rangle$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} -0.0112741u^{22} - 0.341519u^{21} + \dots + 2.14006u - 2.20224 \\ -0.111976u^{22} - 0.261800u^{21} + \dots - 0.447275u - 2.12775 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.0163823u^{22} - 0.0636141u^{21} + \dots - 0.852866u - 1.60142 \\ -0.148727u^{22} + 0.400493u^{21} + \dots - 3.53623u + 2.19107 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.154088u^{22} - 0.430776u^{21} + \dots + 3.46615u - 3.13359 \\ -0.226792u^{22} + 0.342331u^{21} + \dots - 4.26229u + 1.16625 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0904796u^{22} - 0.375433u^{21} + \dots + 3.26034u - 4.38124 \\ 0.114745u^{22} - 0.0830532u^{21} + \dots - 0.980044u + 1.04095 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.123250u^{22} - 0.603319u^{21} + \dots + 1.69278u - 4.32999 \\ -0.111976u^{22} - 0.261800u^{21} + \dots - 0.447275u - 2.12775 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.173695u^{22} - 0.175316u^{21} + \dots + 2.07803u - 0.322177 \\ 0.170470u^{22} - 0.367162u^{21} + \dots + 4.31902u - 2.53217 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.194704u^{22} - 0.406398u^{21} + \dots + 2.57044u - 5.26720 \\ -0.327036u^{22} + 0.120016u^{21} + \dots - 3.13210u + 0.440540 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.157270u^{22} + 0.341210u^{21} + \dots - 0.873536u + 7.44134 \\ -0.0234918u^{22} - 0.0729096u^{21} + \dots + 1.55156u - 0.643684 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

 $= -\frac{68841542409}{52233066871}u^{22} - \frac{22063841362}{52233066871}u^{21} + \dots + \frac{22905478578}{52233066871}u - \frac{1118269147194}{52233066871}u^{21} + \dots + \frac{22905478578}{52233066871}u - \frac{1118269147194}{52233066871}u^{21} + \dots + \frac{22905478578}{52233066871}u^{21} + \dots + \frac{22905478578}{5223$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 24u^{22} + \dots + 8u + 1$
c_2	$u^{23} + 12u^{21} + \dots - 6u - 1$
c_3	$u^{23} + u^{21} + \dots + u - 1$
c_4	$u^{23} + u^{22} + \dots + 7u + 13$
<i>C</i> ₅	$u^{23} + 12u^{21} + \dots - 6u + 1$
	$u^{23} - 9u^{22} + \dots + u - 1$
	$u^{23} + u^{22} + \dots + 34u - 1$
c ₈	$u^{23} - u^{22} + \dots + 5u - 1$
c_9	$u^{23} + 9u^{22} + \dots + u + 1$
c_{10}	$u^{23} - 3u^{22} + \dots + 64u - 1$
c_{11}	$u^{23} - u^{22} + \dots + 7u - 13$
c_{12}	$u^{23} - 2u^{21} + \dots - 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} - 32y^{22} + \dots + 176y - 1$
c_2, c_5	$y^{23} + 24y^{22} + \dots + 8y - 1$
c_3	$y^{23} + 2y^{22} + \dots - 7y - 1$
c_4, c_{11}	$y^{23} - 15y^{22} + \dots + 491y - 169$
c_6, c_9	$y^{23} + 13y^{22} + \dots + y - 1$
c_7	$y^{23} + 9y^{22} + \dots + 942y - 1$
C ₈	$y^{23} + 3y^{22} + \dots - 5y - 1$
c_{10}	$y^{23} + 5y^{22} + \dots + 3818y - 1$
c_{12}	$y^{23} - 4y^{22} + \dots - 3y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.969649 + 0.208739I		
a = 0.893035 + 0.002983I	-9.35694 + 4.88290I	-5.47805 - 2.39578I
b = 0.41251 + 1.38099I		
u = -0.969649 - 0.208739I		
a = 0.893035 - 0.002983I	-9.35694 - 4.88290I	-5.47805 + 2.39578I
b = 0.41251 - 1.38099I		
u = 0.706367 + 0.694290I		
a = -0.864887 + 0.128919I	1.99473 + 0.42434I	-2.96732 - 0.54228I
b = 0.755463 - 0.588126I		
u = 0.706367 - 0.694290I		
a = -0.864887 - 0.128919I	1.99473 - 0.42434I	-2.96732 + 0.54228I
b = 0.755463 + 0.588126I		
u = 1.029520 + 0.311855I		
a = 0.87335 - 1.12980I	0.92294 - 4.26461I	-2.79214 + 3.19246I
b = 1.081290 + 0.659632I		
u = 1.029520 - 0.311855I		
a = 0.87335 + 1.12980I	0.92294 + 4.26461I	-2.79214 - 3.19246I
b = 1.081290 - 0.659632I		
u = 0.085426 + 1.108690I		
a = 0.650193 + 0.335735I	1.04180 - 1.37739I	5.17336 + 4.62822I
b = -0.394580 - 0.446615I		
u = 0.085426 - 1.108690I		
a = 0.650193 - 0.335735I	1.04180 + 1.37739I	5.17336 - 4.62822I
b = -0.394580 + 0.446615I		
u = 0.612586 + 0.954643I		
a = 0.394296 + 0.065832I	-0.74547 - 3.07047I	-10.34573 + 5.68741I
b = -0.526420 - 0.116699I		
u = 0.612586 - 0.954643I		
a = 0.394296 - 0.065832I	-0.74547 + 3.07047I	-10.34573 - 5.68741I
b = -0.526420 + 0.116699I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.182480 + 0.093811I		
a = -0.716499 + 0.295092I	-10.36280 - 3.44481I	-6.30851 + 2.84638I
b = -0.51191 - 1.36850I		
u = -1.182480 - 0.093811I		
a = -0.716499 - 0.295092I	-10.36280 + 3.44481I	-6.30851 - 2.84638I
b = -0.51191 + 1.36850I		
u = 1.187240 + 0.178894I		
a = 0.373081 + 1.093460I	-2.75856 - 2.80899I	-6.25715 + 4.22155I
b = -0.009372 - 0.431374I		
u = 1.187240 - 0.178894I		
a = 0.373081 - 1.093460I	-2.75856 + 2.80899I	-6.25715 - 4.22155I
b = -0.009372 + 0.431374I		
u = 1.22751		
a = -1.00654	-4.04467	-10.7930
b = -0.980403		
u = -1.201890 + 0.352374I		
a = 0.494720 + 1.043980I	-0.35223 + 6.37887I	-3.58506 - 6.94969I
b = 0.98036 - 1.32039I		
u = -1.201890 - 0.352374I		
a = 0.494720 - 1.043980I	-0.35223 - 6.37887I	-3.58506 + 6.94969I
b = 0.98036 + 1.32039I		
u = -0.213051 + 0.598073I		
a = -1.58672 - 0.80580I	2.77756 - 2.68869I	3.20713 + 4.39726I
b = 0.443024 + 0.901041I		
u = -0.213051 - 0.598073I		
a = -1.58672 + 0.80580I	2.77756 + 2.68869I	3.20713 - 4.39726I
b = 0.443024 - 0.901041I		
u = 1.25272 + 0.66973I		
a = 0.005234 + 0.556877I	-5.31688 - 3.17755I	-16.2847 - 1.1732I
b = -1.356660 - 0.234537I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.25272 - 0.66973I		
a = 0.005234 - 0.556877I	-5.31688 + 3.17755I	-16.2847 + 1.1732I
b = -1.356660 + 0.234537I		
u = -1.42054 + 0.53423I		
a = -0.050993 - 0.825192I	-3.78568 + 7.28747I	-1.96558 - 11.65600I
b = -0.883498 + 0.890898I		
u = -1.42054 - 0.53423I		
a = -0.050993 + 0.825192I	-3.78568 - 7.28747I	-1.96558 + 11.65600I
b = -0.883498 - 0.890898I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{23} - 24u^{22} + \dots + 8u + 1)$ $\cdot (u^{68} + 83u^{67} + \dots + 50717133u + 1247689)$
c_2	$(u^{23} + 12u^{21} + \dots - 6u - 1)(u^{68} + 3u^{67} + \dots + 2197u + 1117)$
c_3	$(u^{23} + u^{21} + \dots + u - 1)(u^{68} + u^{67} + \dots + 3064u + 911)$
c_4	$(u^{23} + u^{22} + \dots + 7u + 13)(u^{68} + 2u^{67} + \dots + 116u + 7)$
c_5	$(u^{23} + 12u^{21} + \dots - 6u + 1)(u^{68} + 3u^{67} + \dots + 2197u + 1117)$
<i>C</i> ₆	$(u^{23} - 9u^{22} + \dots + u - 1)(u^{68} + 4u^{67} + \dots - 34u + 3)$
c_7	$(u^{23} + u^{22} + \dots + 34u - 1)(u^{68} + 12u^{67} + \dots + 789947u + 129293)$
<i>c</i> ₈	$(u^{23} - u^{22} + \dots + 5u - 1)(u^{68} - 9u^{66} + \dots - 28u + 88)$
<i>c</i> ₉	$(u^{23} + 9u^{22} + \dots + u + 1)(u^{68} + 4u^{67} + \dots - 34u + 3)$
c_{10}	$(u^{23} - 3u^{22} + \dots + 64u - 1)(u^{68} - 2u^{67} + \dots + 1328829u + 2269219)$
c_{11}	$(u^{23} - u^{22} + \dots + 7u - 13)(u^{68} + 2u^{67} + \dots + 116u + 7)$
c_{12}	$(u^{23} - 2u^{21} + \dots - 3u - 1)(u^{68} + u^{67} + \dots - 3738678u + 370609)$ 20

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{23} - 32y^{22} + \dots + 176y - 1)$ $\cdot (y^{68} - 177y^{67} + \dots - 202908028705639y + 1556727840721)$
c_2,c_5	$(y^{23} + 24y^{22} + \dots + 8y - 1)$ $\cdot (y^{68} + 83y^{67} + \dots + 50717133y + 1247689)$
<i>c</i> ₃	$(y^{23} + 2y^{22} + \dots - 7y - 1)(y^{68} + 21y^{67} + \dots + 2.49202 \times 10^7 y + 829921)$
c_4, c_{11}	$(y^{23} - 15y^{22} + \dots + 491y - 169)(y^{68} - 48y^{67} + \dots - 2858y + 49)$
c_6, c_9	$(y^{23} + 13y^{22} + \dots + y - 1)(y^{68} + 8y^{67} + \dots - 220y + 9)$
	$(y^{23} + 9y^{22} + \dots + 942y - 1)$ $\cdot (y^{68} + 68y^{67} + \dots + 2855259918707y + 16716679849)$
c ₈	$(y^{23} + 3y^{22} + \dots - 5y - 1)(y^{68} - 18y^{67} + \dots + 160432y + 7744)$
c_{10}	$(y^{23} + 5y^{22} + \dots + 3818y - 1)$ $\cdot (y^{68} + 52y^{67} + \dots + 220850551819415y + 5149354869961)$
c_{12}	$(y^{23} - 4y^{22} + \dots - 3y - 1)$ $\cdot (y^{68} - 45y^{67} + \dots - 1916711732460y + 137351030881)$