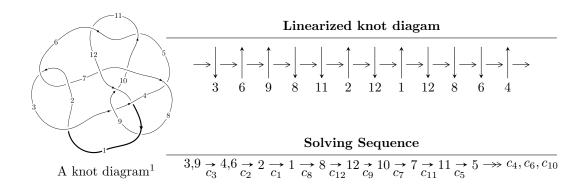
$12n_{0465} \ (K12n_{0465})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 6.76118 \times 10^{193} u^{63} + 5.01371 \times 10^{193} u^{62} + \dots + 1.25354 \times 10^{194} b + 4.44874 \times 10^{194}, \\ &2.86519 \times 10^{194} u^{63} + 6.21880 \times 10^{194} u^{62} + \dots + 7.52124 \times 10^{194} a + 9.81839 \times 10^{195}, \ u^{64} + u^{63} + \dots + 19u \\ I_2^u &= \langle -112393648468 u^{22} - 311362711897 u^{21} + \dots + 13835100361679 b - 17479985966667, \\ &279872528016337 u^{22} + 237504248059593 u^{21} + \dots + 525733813743802 a + 2170261969973827, \\ &u^{23} - u^{21} + \dots + 6u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 87 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.
$$I_1^u = \langle 6.76 \times 10^{193} u^{63} + 5.01 \times 10^{193} u^{62} + \dots + 1.25 \times 10^{194} b + 4.45 \times 10^{194}, \ 2.87 \times 10^{194} u^{63} + 6.22 \times 10^{194} u^{62} + \dots + 7.52 \times 10^{194} a + 9.82 \times 10^{195}, \ u^{64} + u^{63} + \dots + 19u + 3 \rangle$$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.380947u^{63} - 0.826832u^{62} + \dots - 59.2801u - 13.0542 \\ -0.539367u^{63} - 0.399965u^{62} + \dots - 23.3756u - 3.54894 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.864918u^{63} + 0.925284u^{62} + \dots + 43.0012u + 5.72243 \\ 0.869510u^{63} + 0.384944u^{62} + \dots + 17.0021u - 1.04303 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 1.73443u^{63} + 1.31023u^{62} + \dots + 60.0033u + 4.67940 \\ 0.869510u^{63} + 0.384944u^{62} + \dots + 17.0021u - 1.04303 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.367182u^{63} - 0.631069u^{62} + \dots - 51.2318u - 11.2742 \\ 0.329774u^{63} + 0.0548480u^{62} + \dots - 2.95329u - 2.44334 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.920036u^{63} + 0.918957u^{62} + \dots + 40.1447u + 4.44983 \\ 0.991980u^{63} + 0.500896u^{62} + \dots + 22.5982u + 0.226335 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.336655u^{63} - 0.477158u^{62} + \dots + 40.1447u + 4.44983 \\ -0.606568u^{63} - 0.404583u^{62} + \dots - 19.9997u - 2.71614 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.390211u^{63} - 0.905866u^{62} + \dots - 53.3726u - 12.0097 \\ -0.969683u^{63} - 0.116368u^{62} + \dots - 0.389177u + 6.40660 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.741182u^{63} + 0.321617u^{62} + \dots + 10.1253u - 2.13735 \\ 0.0835106u^{63} + 0.0670452u^{62} + \dots + 1.78701u - 0.325318 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -1.24155u^{63} - 1.19696u^{62} + \dots - 65.0895u - 11.0387 \\ -0.376759u^{63} - 0.314282u^{62} + \dots - 18.4692u - 2.96853 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-6.43385u^{63} 6.54582u^{62} + \cdots 289.191u 67.1645$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{64} + 32u^{63} + \dots + 18u + 1$
c_{2}, c_{6}	$u^{64} + 16u^{62} + \dots - 2u + 1$
<i>c</i> ₃	$u^{64} + u^{63} + \dots + 19u + 3$
c_4	$u^{64} + 3u^{63} + \dots - 4170722u + 640748$
c_5, c_{11}	$u^{64} - 43u^{62} + \dots - 783u + 59$
	$u^{64} - u^{63} + \dots + 119493u + 223897$
<i>c</i> ₈	$u^{64} - 5u^{63} + \dots + 813u + 95$
<i>c</i> ₉	$u^{64} - 13u^{63} + \dots - 62574u + 5609$
c_{10}	$u^{64} + 14u^{63} + \dots - 360448u + 39592$
c_{12}	$u^{64} + 3u^{63} + \dots + 138u + 49$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{64} - 8y^{63} + \dots + 18y + 1$
c_2, c_6	$y^{64} + 32y^{63} + \dots + 18y + 1$
<i>c</i> ₃	$y^{64} + y^{63} + \dots + 167y + 9$
c_4	$y^{64} - 39y^{63} + \dots - 7589236264780y + 410557999504$
c_5, c_{11}	$y^{64} - 86y^{63} + \dots - 103211y + 3481$
C ₇	$y^{64} - 99y^{63} + \dots - 1572065687631y + 50129866609$
<i>c</i> ₈	$y^{64} - y^{63} + \dots + 166101y + 9025$
c_9	$y^{64} - 39y^{63} + \dots - 766399734y + 31460881$
c_{10}	$y^{64} - 116y^{63} + \dots + 12169918304y + 1567526464$
c_{12}	$y^{64} + 9y^{63} + \dots + 87090y + 2401$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.768439 + 0.710097I		
a = 1.306620 + 0.123877I	-10.46510 + 7.62597I	0
b = -0.72129 - 1.34035I		
u = 0.768439 - 0.710097I		
a = 1.306620 - 0.123877I	-10.46510 - 7.62597I	0
b = -0.72129 + 1.34035I		
u = -0.085218 + 1.067950I		
a = -0.423774 - 0.836346I	-4.35206 + 0.82760I	0
b = -0.255634 - 0.976959I		
u = -0.085218 - 1.067950I		
a = -0.423774 + 0.836346I	-4.35206 - 0.82760I	0
b = -0.255634 + 0.976959I		
u = 0.266521 + 0.888631I		
a = 0.693375 - 0.164357I	-3.60138 + 1.26061I	-9.53908 - 0.36965I
b = -0.451141 + 1.243390I		
u = 0.266521 - 0.888631I		
a = 0.693375 + 0.164357I	-3.60138 - 1.26061I	-9.53908 + 0.36965I
b = -0.451141 - 1.243390I		
u = 0.455110 + 0.994145I		
a = 0.733351 + 0.024556I	-11.57250 - 2.78285I	0
b = 0.492807 - 1.144750I		
u = 0.455110 - 0.994145I		
a = 0.733351 - 0.024556I	-11.57250 + 2.78285I	0
b = 0.492807 + 1.144750I		
u = 0.835939 + 0.288434I		
a = -0.858019 - 0.218506I	1.46270 + 0.81103I	3.71659 + 0.11699I
b = 0.546312 + 0.216534I		
u = 0.835939 - 0.288434I		
a = -0.858019 + 0.218506I	1.46270 - 0.81103I	3.71659 - 0.11699I
b = 0.546312 - 0.216534I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.971832 + 0.575905I		
a = 0.795059 - 0.858262I	-0.71782 - 4.52201I	0
b = -0.071970 + 0.666140I		
u = -0.971832 - 0.575905I		
a = 0.795059 + 0.858262I	-0.71782 + 4.52201I	0
b = -0.071970 - 0.666140I		
u = 0.618813 + 0.970738I		
a = -0.607323 + 0.738340I	-3.60210 + 6.30080I	0
b = 0.341775 + 1.178830I		
u = 0.618813 - 0.970738I		
a = -0.607323 - 0.738340I	-3.60210 - 6.30080I	0
b = 0.341775 - 1.178830I		
u = 0.952500 + 0.649719I		
a = 0.456188 - 0.728196I	2.58365 + 2.09320I	0
b = -0.672285 + 0.580916I		
u = 0.952500 - 0.649719I		
a = 0.456188 + 0.728196I	2.58365 - 2.09320I	0
b = -0.672285 - 0.580916I		
u = 0.021851 + 0.821787I		
a = 0.47182 - 2.13552I	-8.94146 - 1.47584I	-7.02830 + 5.13134I
b = 0.489476 - 0.207876I		
u = 0.021851 - 0.821787I		
a = 0.47182 + 2.13552I	-8.94146 + 1.47584I	-7.02830 - 5.13134I
b = 0.489476 + 0.207876I		
u = -0.468002 + 1.129190I		
a = -0.136369 - 0.174368I	-16.4681 - 4.7254I	0
b = 0.10048 + 1.51887I		
u = -0.468002 - 1.129190I		
a = -0.136369 + 0.174368I	-16.4681 + 4.7254I	0
b = 0.10048 - 1.51887I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.830809 + 0.908495I		
a = 1.53629 + 0.69226I	1.28045 - 7.16483I	0
b = -0.627832 + 1.024980I		
u = -0.830809 - 0.908495I		
a = 1.53629 - 0.69226I	1.28045 + 7.16483I	0
b = -0.627832 - 1.024980I		
u = 0.102197 + 0.756108I		
a = -0.999058 + 0.316929I	0.31001 + 2.61678I	0.776084 - 0.171136I
b = 0.650916 + 0.954374I		
u = 0.102197 - 0.756108I		
a = -0.999058 - 0.316929I	0.31001 - 2.61678I	0.776084 + 0.171136I
b = 0.650916 - 0.954374I		
u = -1.006830 + 0.792686I		
a = 0.941730 + 0.113880I	-0.05240 - 5.34782I	0
b = -0.718433 - 0.167055I		
u = -1.006830 - 0.792686I		
a = 0.941730 - 0.113880I	-0.05240 + 5.34782I	0
b = -0.718433 + 0.167055I		
u = -0.347978 + 0.595874I		
a = 2.33082 + 0.15889I	-2.27384 - 4.56530I	-7.78284 + 7.48206I
b = -0.573908 + 0.916885I		
u = -0.347978 - 0.595874I		
a = 2.33082 - 0.15889I	-2.27384 + 4.56530I	-7.78284 - 7.48206I
b = -0.573908 - 0.916885I		
u = 0.983563 + 0.949818I		
a = 1.52104 - 0.72824I	-9.24473 - 1.84302I	0
b = -0.623974 - 0.099517I		
u = 0.983563 - 0.949818I		
a = 1.52104 + 0.72824I	-9.24473 + 1.84302I	0
b = -0.623974 + 0.099517I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.498586 + 0.342899I		
a = -3.69984 - 2.03368I	-11.89270 + 5.18300I	-9.77291 - 9.94345I
b = 0.449391 + 1.143210I		
u = 0.498586 - 0.342899I		
a = -3.69984 + 2.03368I	-11.89270 - 5.18300I	-9.77291 + 9.94345I
b = 0.449391 - 1.143210I		
u = -0.461857 + 0.379511I		
a = -1.44331 - 0.07225I	-1.85538 - 2.97884I	-6.59140 + 7.67980I
b = 0.486831 - 1.275810I		
u = -0.461857 - 0.379511I		
a = -1.44331 + 0.07225I	-1.85538 + 2.97884I	-6.59140 - 7.67980I
b = 0.486831 + 1.275810I		
u = -1.12543 + 0.86119I		
a = -1.003630 - 0.572524I	0.148717 - 0.150459I	0
b = 0.721686 + 0.659860I		
u = -1.12543 - 0.86119I		
a = -1.003630 + 0.572524I	0.148717 + 0.150459I	0
b = 0.721686 - 0.659860I		
u = 0.98638 + 1.04285I		
a = -1.092850 + 0.417343I	-9.44514 + 9.24996I	0
b = 1.118790 - 0.379740I		
u = 0.98638 - 1.04285I		
a = -1.092850 - 0.417343I	-9.44514 - 9.24996I	0
b = 1.118790 + 0.379740I		
u = 1.44274 + 0.02938I		
a = -0.615836 + 0.495319I	-0.144341 + 1.401570I	0
b = 0.071795 - 0.805712I		
u = 1.44274 - 0.02938I		
a = -0.615836 - 0.495319I	-0.144341 - 1.401570I	0
b = 0.071795 + 0.805712I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.518307 + 0.185402I		
a = -0.354206 + 0.642889I	1.10608 - 3.36124I	-0.42621 + 9.54804I
b = 0.865746 - 0.532757I		
u = -0.518307 - 0.185402I		
a = -0.354206 - 0.642889I	1.10608 + 3.36124I	-0.42621 - 9.54804I
b = 0.865746 + 0.532757I		
u = 0.344648 + 0.412119I		
a = 3.43307 - 3.90269I	-9.08308 - 1.54040I	-3.52047 + 8.43213I
b = 0.125752 + 0.298631I		
u = 0.344648 - 0.412119I		
a = 3.43307 + 3.90269I	-9.08308 + 1.54040I	-3.52047 - 8.43213I
b = 0.125752 - 0.298631I		
u = -1.14020 + 0.92833I		
a = -0.991241 - 0.285891I	-1.66777 - 3.20908I	0
b = 0.309850 - 1.050050I		
u = -1.14020 - 0.92833I		
a = -0.991241 + 0.285891I	-1.66777 + 3.20908I	0
b = 0.309850 + 1.050050I		
u = -0.227253 + 0.454347I		
a = -0.150236 - 1.032800I	-1.26856 + 0.70605I	-5.19223 - 1.71159I
b = -0.350045 + 0.327230I		
u = -0.227253 - 0.454347I		
a = -0.150236 + 1.032800I	-1.26856 - 0.70605I	-5.19223 + 1.71159I
b = -0.350045 - 0.327230I		
u = -0.276652 + 0.303262I		
a = 1.48929 + 0.35722I	-7.09270 - 0.18320I	-8.5918 + 26.1881I
b = -1.58452 - 0.40190I		
u = -0.276652 - 0.303262I		
a = 1.48929 - 0.35722I	-7.09270 + 0.18320I	-8.5918 - 26.1881I
b = -1.58452 + 0.40190I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.25213 + 1.08328I		
a = -1.59960 + 0.05491I	-0.91338 + 5.51890I	0
b = 0.672809 + 1.012270I		
u = 1.25213 - 1.08328I		
a = -1.59960 - 0.05491I	-0.91338 - 5.51890I	0
b = 0.672809 - 1.012270I		
u = -0.156228 + 0.290874I		
a = 0.21881 - 3.26254I	-1.62143 - 1.10348I	-5.00798 + 3.54749I
b = -0.213772 - 0.956901I		
u = -0.156228 - 0.290874I		
a = 0.21881 + 3.26254I	-1.62143 + 1.10348I	-5.00798 - 3.54749I
b = -0.213772 + 0.956901I		
u = -1.16098 + 1.20032I		
a = -1.412120 - 0.001483I	-12.1872 - 15.7252I	0
b = 0.69640 - 1.25090I		
u = -1.16098 - 1.20032I		
a = -1.412120 + 0.001483I	-12.1872 + 15.7252I	0
b = 0.69640 + 1.25090I		
u = 1.21102 + 1.16930I		
a = 1.160920 - 0.049651I	-3.03377 + 10.06590I	0
b = -0.512568 - 1.188460I		
u = 1.21102 - 1.16930I		
a = 1.160920 + 0.049651I	-3.03377 - 10.06590I	0
b = -0.512568 + 1.188460I		
u = 0.61897 + 1.71494I		
a = -0.305411 - 0.225319I	-4.44894 - 0.47351I	0
b = 0.180451 - 1.014300I		
u = 0.61897 - 1.71494I		
a = -0.305411 + 0.225319I	-4.44894 + 0.47351I	0
b = 0.180451 + 1.014300I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.74962 + 0.59173I		
a = 1.25972 - 0.65598I	-12.53600 - 2.18533I	0
b = -0.450065 + 1.179190I		
u = -1.74962 - 0.59173I		
a = 1.25972 + 0.65598I	-12.53600 + 2.18533I	0
b = -0.450065 - 1.179190I		
u = -1.33222 + 1.51909I		
a = 0.511399 + 0.352829I	-12.21100 + 6.27838I	0
b = -0.493832 - 1.176170I		
u = -1.33222 - 1.51909I		
a = 0.511399 - 0.352829I	-12.21100 - 6.27838I	0
b = -0.493832 + 1.176170I		

II.

 $\begin{array}{l} I_2^u = \langle -1.12 \times 10^{11} u^{22} - 3.11 \times 10^{11} u^{21} + \dots + 1.38 \times 10^{13} b - 1.75 \times 10^{13}, \ 2.80 \times 10^{14} u^{22} + 2.38 \times 10^{14} u^{21} + \dots + 5.26 \times 10^{14} a + 2.17 \times 10^{15}, \ u^{23} - u^{21} + \dots + 6u + 1 \rangle \end{array}$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{4} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.532346u^{22} - 0.451758u^{21} + \cdots - 3.94607u - 4.12806 \\ 0.00812380u^{22} + 0.0225053u^{21} + \cdots - 1.76899u + 1.26345 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.576639u^{22} - 0.0415103u^{21} + \cdots + 0.865302u - 4.15266 \\ 0.523266u^{22} - 0.0991113u^{21} + \cdots + 0.406061u + 2.45807 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.0533735u^{22} - 0.140622u^{21} + \cdots + 1.27136u - 1.69459 \\ 0.523266u^{22} - 0.0991113u^{21} + \cdots + 0.406061u + 2.45807 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.240226u^{22} - 0.090113u^{21} + \cdots + 0.406061u + 2.45807 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.578843u^{22} - 0.000150414u^{21} + \cdots - 2.50811u + 0.149221 \\ -0.126360u^{22} + 0.105650u^{21} + \cdots - 0.0810748u - 0.916657 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.578843u^{22} - 0.170099u^{21} + \cdots - 0.0318002u - 4.29328 \\ 0.229238u^{22} - 0.0424956u^{21} + \cdots - 0.296275u + 2.42859 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.201365u^{22} + 0.284014u^{21} + \cdots - 1.93952u + 2.76031 \\ -0.0989915u^{22} + 0.379233u^{21} + \cdots + 2.77408u - 1.41057 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -1.57884u^{22} - 0.170099u^{21} + \cdots - 1.03180u - 10.2933 \\ 0.718281u^{22} - 0.215517u^{21} + \cdots - 2.43939u + 4.91339 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.631324u^{22} + 0.428112u^{21} + \cdots + 4.76746u + 2.95129 \\ -0.107101u^{22} + 0.00114053u^{21} + \cdots + 1.94761u - 0.0866821 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.284014u^{22} + 0.0456181u^{21} + \cdots + 3.96851u + 1.20137 \\ 0.206212u^{22} + 0.164773u^{21} + \cdots + 1.26608u + 0.609948 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 9u^{22} + \dots - 11u + 1$
c_2	$u^{23} - u^{22} + \dots + u - 1$
c_3	$u^{23} - u^{21} + \dots + 6u + 1$
c_4	$u^{23} - 3u^{21} + \dots + 6u + 4$
<i>C</i> ₅	$u^{23} + u^{22} + \dots + 4u + 1$
	$u^{23} + u^{22} + \dots + u + 1$
	$u^{23} + 2u^{22} + \dots - 6u + 1$
<i>c</i> ₈	$u^{23} - 4u^{21} + \dots + 6u + 1$
<i>c</i> ₉	$u^{23} - 6u^{22} + \dots + 3u + 1$
c_{10}	$u^{23} + 15u^{22} + \dots + 4u + 8$
c_{11}	$u^{23} - u^{22} + \dots + 4u - 1$
c_{12}	$u^{23} + 2u^{22} + \dots - 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} + y^{22} + \dots - 15y - 1$
c_{2}, c_{6}	$y^{23} + 9y^{22} + \dots - 11y - 1$
<i>c</i> ₃	$y^{23} - 2y^{22} + \dots + 36y - 1$
c_4	$y^{23} - 6y^{22} + \dots - 308y - 16$
c_5,c_{11}	$y^{23} - 25y^{22} + \dots + 14y - 1$
	$y^{23} - 18y^{22} + \dots - 14y - 1$
<i>c</i> ₈	$y^{23} - 8y^{22} + \dots + 22y - 1$
<i>C</i> 9	$y^{23} - 18y^{22} + \dots + 17y - 1$
c_{10}	$y^{23} - 23y^{22} + \dots - 112y - 64$
c_{12}	$y^{23} - 2y^{22} + \dots - 7y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.893750 + 0.421240I		
a = -0.700987 + 0.971805I	-0.19060 - 5.12115I	0.52825 + 10.04685I
b = 0.424483 - 0.573628I		
u = -0.893750 - 0.421240I		
a = -0.700987 - 0.971805I	-0.19060 + 5.12115I	0.52825 - 10.04685I
b = 0.424483 + 0.573628I		
u = 1.009380 + 0.144862I		
a = 0.501893 - 0.040694I	1.18763 - 2.35933I	-0.54441 + 2.81335I
b = -0.582203 + 0.603687I		
u = 1.009380 - 0.144862I		
a = 0.501893 + 0.040694I	1.18763 + 2.35933I	-0.54441 - 2.81335I
b = -0.582203 - 0.603687I		
u = 0.824076 + 0.431980I		
a = -0.31656 + 1.78055I	-11.75970 - 4.28995I	-7.55896 + 1.61429I
b = 0.434403 - 1.159370I		
u = 0.824076 - 0.431980I		
a = -0.31656 - 1.78055I	-11.75970 + 4.28995I	-7.55896 - 1.61429I
b = 0.434403 + 1.159370I		
u = -0.432840 + 0.804291I		
a = 1.264390 - 0.010317I	-0.29640 - 3.14054I	-6.31334 + 6.17687I
b = -0.733090 + 0.984673I		
u = -0.432840 - 0.804291I		
a = 1.264390 + 0.010317I	-0.29640 + 3.14054I	-6.31334 - 6.17687I
b = -0.733090 - 0.984673I		
u = -0.448748 + 0.721348I		
a = -1.93684 - 3.19433I	-9.30020 + 1.18087I	-13.7807 + 7.4362I
b = 0.237145 - 0.577461I		
u = -0.448748 - 0.721348I		
a = -1.93684 + 3.19433I	-9.30020 - 1.18087I	-13.7807 - 7.4362I
b = 0.237145 + 0.577461I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.137895 + 0.681215I		
a = -0.647316 - 0.323996I	-2.98206 + 2.14068I	-7.34511 - 5.88395I
b = 0.098638 - 1.232580I		
u = 0.137895 - 0.681215I		
a = -0.647316 + 0.323996I	-2.98206 - 2.14068I	-7.34511 + 5.88395I
b = 0.098638 + 1.232580I		
u = -1.108090 + 0.692297I		
a = 1.77762 + 0.17325I	0.25873 - 5.53788I	-1.35642 + 5.56127I
b = -0.617221 + 1.022100I		
u = -1.108090 - 0.692297I		
a = 1.77762 - 0.17325I	0.25873 + 5.53788I	-1.35642 - 5.56127I
b = -0.617221 - 1.022100I		
u = 1.252020 + 0.409058I		
a = 1.013030 - 0.856909I	1.39201 + 0.69958I	0.150882 - 0.471117I
b = -0.590775 + 0.675547I		
u = 1.252020 - 0.409058I		
a = 1.013030 + 0.856909I	1.39201 - 0.69958I	0.150882 + 0.471117I
b = -0.590775 - 0.675547I		
u = -0.114607 + 1.393680I		
a = 0.013743 - 0.511692I	-3.69072 + 1.05790I	-1.89355 - 6.61055I
b = -0.239456 - 0.903215I		
u = -0.114607 - 1.393680I		
a = 0.013743 + 0.511692I	-3.69072 - 1.05790I	-1.89355 + 6.61055I
b = -0.239456 + 0.903215I		
u = -1.062860 + 0.913991I		
a = -0.401149 - 0.557990I	0.88359 - 3.30259I	-3.25538 + 1.96589I
b = 0.639569 + 0.734356I		
u = -1.062860 - 0.913991I		
a = -0.401149 + 0.557990I	0.88359 + 3.30259I	-3.25538 - 1.96589I
b = 0.639569 - 0.734356I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.91918 + 1.12261I		
a = -1.36761 + 0.59069I	0.12927 + 8.32658I	-4.10216 - 9.00086I
b = 0.640606 + 0.971353I		
u = 0.91918 - 1.12261I		
a = -1.36761 - 0.59069I	0.12927 - 8.32658I	-4.10216 + 9.00086I
b = 0.640606 - 0.971353I		
u = -0.163309		
a = -3.40044	-7.19079	-25.0580
b = 1.57580		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{23} - 9u^{22} + \dots - 11u + 1)(u^{64} + 32u^{63} + \dots + 18u + 1)$
c_2	$(u^{23} - u^{22} + \dots + u - 1)(u^{64} + 16u^{62} + \dots - 2u + 1)$
<i>c</i> ₃	$(u^{23} - u^{21} + \dots + 6u + 1)(u^{64} + u^{63} + \dots + 19u + 3)$
C ₄	$(u^{23} - 3u^{21} + \dots + 6u + 4)(u^{64} + 3u^{63} + \dots - 4170722u + 640748)$
<i>C</i> ₅	$(u^{23} + u^{22} + \dots + 4u + 1)(u^{64} - 43u^{62} + \dots - 783u + 59)$
<i>c</i> ₆	$(u^{23} + u^{22} + \dots + u + 1)(u^{64} + 16u^{62} + \dots - 2u + 1)$
C ₇	$(u^{23} + 2u^{22} + \dots - 6u + 1)(u^{64} - u^{63} + \dots + 119493u + 223897)$
<i>c</i> ₈	$(u^{23} - 4u^{21} + \dots + 6u + 1)(u^{64} - 5u^{63} + \dots + 813u + 95)$
<i>C</i> 9	$(u^{23} - 6u^{22} + \dots + 3u + 1)(u^{64} - 13u^{63} + \dots - 62574u + 5609)$
c_{10}	$(u^{23} + 15u^{22} + \dots + 4u + 8)(u^{64} + 14u^{63} + \dots - 360448u + 39592)$
c_{11}	$(u^{23} - u^{22} + \dots + 4u - 1)(u^{64} - 43u^{62} + \dots - 783u + 59)$
c_{12}	$(u^{23} + 2u^{22} + \dots - 3u + 1)(u^{64} + 3u^{63} + \dots + 138u + 49)$ 20

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$ (y^{23} + y^{22} + \dots - 15y - 1)(y^{64} - 8y^{63} + \dots + 18y + 1) $
c_2, c_6	$(y^{23} + 9y^{22} + \dots - 11y - 1)(y^{64} + 32y^{63} + \dots + 18y + 1)$
c_3	$(y^{23} - 2y^{22} + \dots + 36y - 1)(y^{64} + y^{63} + \dots + 167y + 9)$
c_4	$(y^{23} - 6y^{22} + \dots - 308y - 16)$ $\cdot (y^{64} - 39y^{63} + \dots - 7589236264780y + 410557999504)$
c_5,c_{11}	$(y^{23} - 25y^{22} + \dots + 14y - 1)(y^{64} - 86y^{63} + \dots - 103211y + 3481)$
<i>C</i> ₇	$(y^{23} - 18y^{22} + \dots - 14y - 1)$ $\cdot (y^{64} - 99y^{63} + \dots - 1572065687631y + 50129866609)$
c ₈	$(y^{23} - 8y^{22} + \dots + 22y - 1)(y^{64} - y^{63} + \dots + 166101y + 9025)$
<i>c</i> 9	$(y^{23} - 18y^{22} + \dots + 17y - 1)$ $\cdot (y^{64} - 39y^{63} + \dots - 766399734y + 31460881)$
c_{10}	$(y^{23} - 23y^{22} + \dots - 112y - 64)$ $\cdot (y^{64} - 116y^{63} + \dots + 12169918304y + 1567526464)$
c_{12}	$(y^{23} - 2y^{22} + \dots - 7y - 1)(y^{64} + 9y^{63} + \dots + 87090y + 2401)$