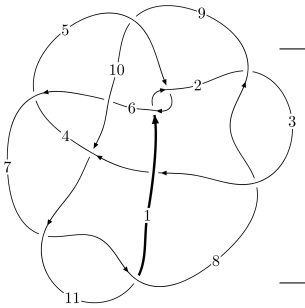
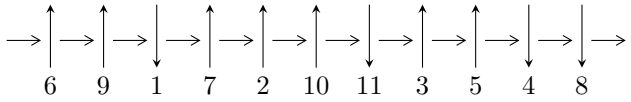
$11a_{290}$ $(K11a_{290})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$2,9 \underset{c_2}{\to} 3,6 \underset{c_1}{\to} 1 \underset{c_3}{\to} 4 \underset{c_5}{\to} 5 \underset{c_9}{\to} 10 \underset{c_8}{\to} 8 \underset{c_{11}}{\to} 11 \underset{c_7}{\to} 7 \longrightarrow\!\!\!\!\!\to c_4, c_6, c_{10}$$

Ideals for irreducible components[2]of $X_{\mathbf{par}}$

$$\begin{aligned} I_1^u = \langle & -5.37582 \times 10^{277} u^{85} + 1.96137 \times 10^{278} u^{84} + \cdots + 1.50205 \times 10^{280} b + 1.64826 \times 10^{280}, \\ & -9.79158 \times 10^{279} u^{85} + 4.00194 \times 10^{280} u^{84} + \cdots + 2.71871 \times 10^{282} a + 2.80758 \times 10^{282}, \\ & u^{86} - 3u^{85} + \cdots + 1252u + 181 \rangle \\ I_2^u = \langle & 2984u^{15} + 8425u^{14} + \cdots + 8374b - 4575,\ -28033u^{15} - 151872u^{14} + \cdots + 159106a + 94137, \\ & u^{16} + 4u^{15} + \cdots - 3u + 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 102 representations.

[1]The 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. $\boldsymbol{I_1^u = \langle -5.38 \times 10^{277} u^{85} + 1.96 \times 10^{278} u^{84} + \cdots + 1.50 \times 10^{280} b + 1.65 \times 10^{280},\ -9.79 \times 10^{279} u^{85} + 4.00 \times 10^{280} u^{84} + \cdots + 2.72 \times 10^{282} a + 2.81 \times 10^{282},\ u^{86} - 3u^{85} + \cdots + 1252u + 181 \rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.00360156u^{85} - 0.0147200u^{84} + \cdots - 21.7698u - 1.03269 \\ 0.00357899u^{85} - 0.0130580u^{84} + \cdots - 9.94894u - 1.09735 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0110795u^{85} - 0.00313808u^{84} + \cdots - 9.57734u + 0.460705 \\ 0.0148192u^{85} - 0.0206209u^{84} + \cdots + 24.7475u + 3.74548 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.00535817u^{85} + 0.0164595u^{84} + \cdots + 31.0765u + 3.73032 \\ 0.00748731u^{85} - 0.0280075u^{84} + \cdots - 23.3642u - 3.54432 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.0000225642u^{85} - 0.00166203u^{84} + \cdots - 11.8208u + 0.0646558 \\ 0.00357899u^{85} - 0.0130580u^{84} + \cdots - 9.94894u - 1.09735 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.00480532u^{85} - 0.00440844u^{84} + \cdots + 41.7070u + 5.30239 \\ 0.00626377u^{85} - 0.0151027u^{84} + \cdots + 1.39732u + 0.676884 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.00788554u^{85} - 0.0135049u^{84} + \cdots - 24.0195u - 1.63228 \\ 0.00703857u^{85} - 0.00686933u^{84} + \cdots + 13.6359u + 2.22777 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.00149491u^{85} - 0.0103635u^{84} + \cdots - 63.8971u - 7.88042 \\ -0.0199005u^{85} + 0.0905386u^{84} + \cdots + 16.1319u + 2.96059 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.00149491u^{85} - 0.0103635u^{84} + \cdots - 63.8971u - 7.88042 \\ -0.0199005u^{85} + 0.0905386u^{84} + \cdots + 16.1319u + 2.96059 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.0176283u^{85} + 0.178110u^{84} + \cdots + 296.326u + 45.8239$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{86} + 28u^{84} + \cdots + 558u + 43$
c_2, c_8	$u^{86} - 3u^{85} + \cdots + 1252u + 181$
c_3	$u^{86} - 10u^{85} + \cdots - 377377u + 57122$
c_4	$u^{86} + 9u^{85} + \cdots + 6249u + 722$
c_6	$u^{86} - 2u^{85} + \cdots + 31u + 1$
c_7, c_{11}	$u^{86} - 2u^{85} + \cdots + 15u + 1$
c_9	$u^{86} + 18u^{84} + \cdots + 257661u + 27211$
c_{10}	$u^{86} - 2u^{85} + \cdots - 11u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{86} + 56y^{85} + \cdots + 192768y + 1849$
c_2, c_8	$y^{86} + 67y^{85} + \cdots + 1561986y + 32761$
c_3	$y^{86} - 40y^{85} + \cdots - 106949549161y + 3262922884$
c_4	$y^{86} + 21y^{85} + \cdots + 18203155y + 521284$
c_6	$y^{86} + 2y^{85} + \cdots - 173y + 1$
c_7, c_{11}	$y^{86} - 70y^{85} + \cdots + 163y + 1$
c_9	$y^{86} + 36y^{85} + \cdots - 1107389665y + 740438521$
c_{10}	$y^{86} - 18y^{85} + \cdots - 43y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.273563 + 0.969299I$ $a = -0.558541 - 0.791320I$ $b = -0.750237 - 0.353855I$	$-1.75556 + 2.96398I$	0
$u = 0.273563 - 0.969299I$ $a = -0.558541 + 0.791320I$ $b = -0.750237 + 0.353855I$	$-1.75556 - 2.96398I$	0
$u = -0.791405 + 0.487265I$ $a = -1.249760 + 0.001637I$ $b = 0.176471 - 0.796902I$	$-2.76919 + 0.86190I$	0
$u = -0.791405 - 0.487265I$ $a = -1.249760 - 0.001637I$ $b = 0.176471 + 0.796902I$	$-2.76919 - 0.86190I$	0
$u = 1.058500 + 0.166799I$ $a = 0.195269 - 0.257088I$ $b = -0.384724 - 1.167240I$	$-0.44655 + 6.40335I$	0
$u = 1.058500 - 0.166799I$ $a = 0.195269 + 0.257088I$ $b = -0.384724 + 1.167240I$	$-0.44655 - 6.40335I$	0
$u = 0.433257 + 0.809408I$ $a = -0.481754 - 0.210140I$ $b = -0.184332 + 0.437485I$	$0.18140 + 1.93771I$	0
$u = 0.433257 - 0.809408I$ $a = -0.481754 + 0.210140I$ $b = -0.184332 - 0.437485I$	$0.18140 - 1.93771I$	0
$u = 0.822552 + 0.231435I$ $a = 0.584539 + 0.759190I$ $b = -0.725573 + 0.219124I$	$-1.52512 + 6.90858I$	0
$u = 0.822552 - 0.231435I$ $a = 0.584539 - 0.759190I$ $b = -0.725573 - 0.219124I$	$-1.52512 - 6.90858I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.054741+1.153840I$ $a=-0.24301+2.56854I$ $b=-0.119574+1.052110I$	$-1.32630-3.41399I$	0
$u=-0.054741-1.153840I$ $a=-0.24301-2.56854I$ $b=-0.119574-1.052110I$	$-1.32630+3.41399I$	0
$u=0.079218+1.178320I$ $a=-0.012899-0.520620I$ $b=-0.729471-0.142215I$	$-2.46468+1.92737I$	0
$u=0.079218-1.178320I$ $a=-0.012899+0.520620I$ $b=-0.729471+0.142215I$	$-2.46468-1.92737I$	0
$u=-0.526037+1.072220I$ $a=-0.072054+0.352626I$ $b=-0.200801-0.661210I$	$-4.76421-5.78091I$	0
$u=-0.526037-1.072220I$ $a=-0.072054-0.352626I$ $b=-0.200801+0.661210I$	$-4.76421+5.78091I$	0
$u=-0.796875+0.085423I$ $a=-0.340912-0.000196I$ $b=0.088188+1.153450I$	$-2.78970+1.91473I$	$0.-3.13596I$
$u=-0.796875-0.085423I$ $a=-0.340912+0.000196I$ $b=0.088188-1.153450I$	$-2.78970-1.91473I$	$0.+3.13596I$
$u=0.674546+0.412385I$ $a=-1.71045-0.61869I$ $b=0.414687-0.836442I$	$-3.09982-3.89257I$	$0.+7.60203I$
$u=0.674546-0.412385I$ $a=-1.71045+0.61869I$ $b=0.414687+0.836442I$	$-3.09982+3.89257I$	$0.-7.60203I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.029748 + 1.211970I$ $a = -0.776818 - 0.475869I$ $b = -1.251790 - 0.400798I$	$-1.72544 + 2.47755I$	0
$u = 0.029748 - 1.211970I$ $a = -0.776818 + 0.475869I$ $b = -1.251790 + 0.400798I$	$-1.72544 - 2.47755I$	0
$u = -0.714002 + 0.312630I$ $a = -0.466193 - 0.747453I$ $b = 0.472121 - 1.150990I$	$-2.08518 - 4.50257I$	$1.84178 + 8.26392I$
$u = -0.714002 - 0.312630I$ $a = -0.466193 + 0.747453I$ $b = 0.472121 + 1.150990I$	$-2.08518 + 4.50257I$	$1.84178 - 8.26392I$
$u = -0.159848 + 1.234050I$ $a = 0.529862 - 0.023389I$ $b = 1.371900 + 0.103900I$	$-1.05879 - 4.77375I$	0
$u = -0.159848 - 1.234050I$ $a = 0.529862 + 0.023389I$ $b = 1.371900 - 0.103900I$	$-1.05879 + 4.77375I$	0
$u = 0.538060 + 0.526043I$ $a = -0.678151 + 0.085231I$ $b = 0.416327 + 0.832614I$	$0.75640 + 1.97088I$	$6.98873 - 3.30851I$
$u = 0.538060 - 0.526043I$ $a = -0.678151 - 0.085231I$ $b = 0.416327 - 0.832614I$	$0.75640 - 1.97088I$	$6.98873 + 3.30851I$
$u = 0.246587 + 1.249730I$ $a = 0.32583 - 2.92544I$ $b = -0.113725 - 1.064060I$	$-5.93474 + 7.14233I$	0
$u = 0.246587 - 1.249730I$ $a = 0.32583 + 2.92544I$ $b = -0.113725 + 1.064060I$	$-5.93474 - 7.14233I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.714469+0.107760I$ $a=-0.789250+0.825546I$ $b=-0.0426813-0.1283240I$	$-2.61985+1.17605I$	$1.036569-0.187938I$
$u=-0.714469-0.107760I$ $a=-0.789250-0.825546I$ $b=-0.0426813+0.1283240I$	$-2.61985-1.17605I$	$1.036569+0.187938I$
$u=\ \ 0.078198+1.275430I$ $a=\ \ 1.13726-2.18042I$ $b=-0.354521-1.348510I$	$-10.13010+5.46901I$	0
$u=\ \ 0.078198-1.275430I$ $a=\ \ 1.13726+2.18042I$ $b=-0.354521+1.348510I$	$-10.13010-5.46901I$	0
$u=-0.176487+1.270570I$ $a=\ \ 0.036238-0.305363I$ $b=\ \ 1.043670-0.552437I$	$-6.11732-3.95002I$	0
$u=-0.176487-1.270570I$ $a=\ \ 0.036238+0.305363I$ $b=\ \ 1.043670+0.552437I$	$-6.11732+3.95002I$	0
$u=-0.179144+1.277070I$ $a=-0.26902-1.57349I$ $b=\ \ 0.83796-1.48737I$	$-8.41301-3.69610I$	0
$u=-0.179144-1.277070I$ $a=-0.26902+1.57349I$ $b=\ \ 0.83796+1.48737I$	$-8.41301+3.69610I$	0
$u=-0.261605+1.326890I$ $a=-0.44168-1.72698I$ $b=\ \ 0.31957-1.56887I$	$-7.29801-1.70122I$	0
$u=-0.261605-1.326890I$ $a=-0.44168+1.72698I$ $b=\ \ 0.31957+1.56887I$	$-7.29801+1.70122I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.378360+1.326520I$ $a=\ \ 0.87070+1.64004I$ $b=-0.428512+1.305690I$	$-6.77744-6.30203I$	0
$u=-0.378360-1.326520I$ $a=\ \ 0.87070-1.64004I$ $b=-0.428512-1.305690I$	$-6.77744+6.30203I$	0
$u=-1.280750+0.519114I$ $a=\ \ 0.389301+0.640771I$ $b=-0.414651+1.174810I$	$-4.46055-11.18420I$	0
$u=-1.280750-0.519114I$ $a=\ \ 0.389301-0.640771I$ $b=-0.414651-1.174810I$	$-4.46055+11.18420I$	0
$u=-0.019101+1.401050I$ $a=-0.23552+1.78688I$ $b=\ \ 0.43425+1.53897I$	$-12.14740-4.74643I$	0
$u=-0.019101-1.401050I$ $a=-0.23552-1.78688I$ $b=\ \ 0.43425-1.53897I$	$-12.14740+4.74643I$	0
$u=-0.148079+1.400730I$ $a=\ \ 1.12074+1.42376I$ $b=-0.110874+1.089880I$	$-9.95220-0.65712I$	0
$u=-0.148079-1.400730I$ $a=\ \ 1.12074-1.42376I$ $b=-0.110874-1.089880I$	$-9.95220+0.65712I$	0
$u=\ \ 0.18402+1.40665I$ $a=\ \ 0.18310-1.74200I$ $b=-0.62071-1.36597I$	$-5.12935+4.31635I$	0
$u=\ \ 0.18402-1.40665I$ $a=\ \ 0.18310+1.74200I$ $b=-0.62071+1.36597I$	$-5.12935-4.31635I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.35726+1.39065I$ $a=\ \ 0.0345880+0.0824053I$ $b=-0.833294-0.003827I$	$-7.36616-3.03836I$	0
$u=-0.35726-1.39065I$ $a=\ \ 0.0345880-0.0824053I$ $b=-0.833294+0.003827I$	$-7.36616+3.03836I$	0
$u=\ \ 0.32019+1.40690I$ $a=\ \ 0.394902+0.096675I$ $b=\ \ 1.225800-0.072859I$	$-6.75829+10.98080I$	0
$u=\ \ 0.32019-1.40690I$ $a=\ \ 0.394902-0.096675I$ $b=\ \ 1.225800+0.072859I$	$-6.75829-10.98080I$	0
$u=-0.27512+1.42570I$ $a=\ \ 0.39471+2.11603I$ $b=-0.47939+1.46461I$	$-7.64272-8.09055I$	0
$u=-0.27512-1.42570I$ $a=\ \ 0.39471-2.11603I$ $b=-0.47939-1.46461I$	$-7.64272+8.09055I$	0
$u=\ \ 0.26743+1.43796I$ $a=-0.124019+0.837964I$ $b=-0.585323+0.305477I$	$-5.18226-1.85610I$	0
$u=\ \ 0.26743-1.43796I$ $a=-0.124019-0.837964I$ $b=-0.585323-0.305477I$	$-5.18226+1.85610I$	0
$u=\ \ 0.531703+0.023026I$ $a=-0.668608+0.076796I$ $b=\ \ 0.677470+0.043888I$	$1.105700+0.002392I$	$9.73011+0.07496I$
$u=\ \ 0.531703-0.023026I$ $a=-0.668608-0.076796I$ $b=\ \ 0.677470-0.043888I$	$1.105700-0.002392I$	$9.73011-0.07496I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.42393 + 1.40684I$ $a = -0.49693 + 1.62111I$ $b = 0.60345 + 1.42770I$	$-5.44322 + 11.59020I$	0
$u = 0.42393 - 1.40684I$ $a = -0.49693 - 1.62111I$ $b = 0.60345 - 1.42770I$	$-5.44322 - 11.59020I$	0
$u = -0.491963 + 0.128609I$ $a = 0.55174 + 1.79794I$ $b = -0.674909 + 0.297545I$	$2.29978 + 2.36466I$	$8.84869 - 2.14342I$
$u = -0.491963 - 0.128609I$ $a = 0.55174 - 1.79794I$ $b = -0.674909 - 0.297545I$	$2.29978 - 2.36466I$	$8.84869 + 2.14342I$
$u = -0.62650 + 1.36361I$ $a = -0.39539 - 1.41576I$ $b = -0.109699 - 1.037280I$	$-3.91481 - 0.17244I$	0
$u = -0.62650 - 1.36361I$ $a = -0.39539 + 1.41576I$ $b = -0.109699 + 1.037280I$	$-3.91481 + 0.17244I$	0
$u = 0.00350 + 1.52364I$ $a = 0.358278 + 1.317200I$ $b = -0.550954 + 1.178570I$	$-10.65740 - 1.60329I$	0
$u = 0.00350 - 1.52364I$ $a = 0.358278 - 1.317200I$ $b = -0.550954 - 1.178570I$	$-10.65740 + 1.60329I$	0
$u = -0.439430 + 0.147669I$ $a = -1.44145 + 1.37928I$ $b = -0.363451 - 1.148080I$	$-4.80669 + 1.43419I$	$-5.07531 - 5.47709I$
$u = -0.439430 - 0.147669I$ $a = -1.44145 - 1.37928I$ $b = -0.363451 + 1.148080I$	$-4.80669 - 1.43419I$	$-5.07531 + 5.47709I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.086601+0.438946I$ $a=-1.329560+0.007199I$ $b=\ \ 0.590173+0.816881I$	$0.92382+2.38456I$	$6.67469+4.68387I$
$u=-0.086601-0.438946I$ $a=-1.329560-0.007199I$ $b=\ \ 0.590173-0.816881I$	$0.92382-2.38456I$	$6.67469-4.68387I$
$u=-0.47210+1.56780I$ $a=-0.51576-1.61493I$ $b=\ \ 0.59006-1.38905I$	$-10.9523-17.3442I$	0
$u=-0.47210-1.56780I$ $a=-0.51576+1.61493I$ $b=\ \ 0.59006+1.38905I$	$-10.9523+17.3442I$	0
$u=\ \ 0.45071+1.62342I$ $a=-0.35003+1.51866I$ $b=\ \ 0.30166+1.40852I$	$-12.3927+8.1607I$	0
$u=\ \ 0.45071-1.62342I$ $a=-0.35003-1.51866I$ $b=\ \ 0.30166-1.40852I$	$-12.3927-8.1607I$	0
$u=\ \ 0.59453+1.60446I$ $a=\ \ 0.62690-1.41851I$ $b=-0.464293-1.266200I$	$-11.17030+7.76159I$	0
$u=\ \ 0.59453-1.60446I$ $a=\ \ 0.62690+1.41851I$ $b=-0.464293+1.266200I$	$-11.17030-7.76159I$	0
$u=-0.102691+0.229037I$ $a=\ \ 0.30517-2.13509I$ $b=\ \ 0.898880-0.683918I$	$1.09250-2.96405I$	$12.5613+9.8421I$
$u=-0.102691-0.229037I$ $a=\ \ 0.30517+2.13509I$ $b=\ \ 0.898880+0.683918I$	$1.09250+2.96405I$	$12.5613-9.8421I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.077135 + 0.222987I$ $a = 3.84908 + 2.69551I$ $b = 0.003349 - 1.290410I$	$-6.67412 - 4.74942I$	$-4.72582 + 5.55088I$
$u = 0.077135 - 0.222987I$ $a = 3.84908 - 2.69551I$ $b = 0.003349 + 1.290410I$	$-6.67412 + 4.74942I$	$-4.72582 - 5.55088I$
$u = 0.66832 + 1.87320I$ $a = 0.324156 - 1.096740I$ $b = -0.045174 - 1.060190I$	$-4.31969 + 0.37021I$	0
$u = 0.66832 - 1.87320I$ $a = 0.324156 + 1.096740I$ $b = -0.045174 + 1.060190I$	$-4.31969 - 0.37021I$	0
$u = 2.79686 + 0.72592I$ $a = -0.106036 + 0.931168I$ $b = 0.072665 + 1.004210I$	$-4.97029 - 0.39838I$	0
$u = 2.79686 - 0.72592I$ $a = -0.106036 - 0.931168I$ $b = 0.072665 - 1.004210I$	$-4.97029 + 0.39838I$	0

II. $\boldsymbol{I_2^u = \langle 2984u^{15} + 8425u^{14} + \cdots + 8374b - 4575,\ -2.80 \times 10^4 u^{15} - 1.52 \times 10^5 u^{14} + \cdots + 1.59 \times 10^5 a + 9.41 \times 10^4,\ u^{16} + 4u^{15} + \cdots - 3u + 1\rangle}$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.176191u^{15} + 0.954533u^{14} + \cdots - 2.25062u - 0.591662 \\ -0.356341u^{15} - 1.00609u^{14} + \cdots - 5.13566u + 0.546334 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.106652u^{15} + 0.802999u^{14} + \cdots + 2.04999u - 0.149856 \\ -0.339981u^{15} - 1.42823u^{14} + \cdots + 5.00060u - 1.61464 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.137644u^{15} + 0.420336u^{14} + \cdots + 1.85401u - 0.285571 \\ -0.808021u^{15} - 3.10940u^{14} + \cdots - 5.07303u + 0.205354 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.532532u^{15} + 1.96062u^{14} + \cdots + 2.88504u - 1.13800 \\ -0.356341u^{15} - 1.00609u^{14} + \cdots - 5.13566u + 0.546334 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.352928u^{15} - 1.82485u^{14} + \cdots + 1.72757u - 2.98321 \\ 0.444697u^{15} + 1.82824u^{14} + \cdots + 2.80468u - 0.446633 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.763711u^{15} + 3.26176u^{14} + \cdots + 2.51728u - 0.476437 \\ -0.565849u^{15} - 2.48415u^{14} + \cdots + 5.69879u - 1.45754 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.894335u^{15} - 4.06800u^{14} + \cdots - 5.46111u + 1.11283 \\ -0.471126u^{15} - 1.42425u^{14} + \cdots - 4.53190u + 0.730689 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.894335u^{15} - 4.06800u^{14} + \cdots - 5.46111u + 1.11283 \\ -0.471126u^{15} - 1.42425u^{14} + \cdots - 4.53190u + 0.730689 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -\frac{369566}{79553}u^{15} - \frac{2837157}{159106}u^{14} + \cdots - \frac{3511991}{79553}u + \frac{872049}{159106}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - u^{15} + \cdots + 3u + 1$
c_2	$u^{16} + 4u^{15} + \cdots - 3u + 1$
c_3	$u^{16} + 3u^{15} + \cdots - 6u + 1$
c_4	$u^{16} + 2u^{15} + \cdots - u + 1$
c_5	$u^{16} + u^{15} + \cdots - 3u + 1$
c_6	$u^{16} - 3u^{15} + \cdots - 2u + 1$
c_7	$u^{16} + 3u^{15} + \cdots - 4u + 3$
c_8	$u^{16} - 4u^{15} + \cdots + 3u + 1$
c_9	$u^{16} + u^{15} + \cdots - 2u + 1$
c_{10}	$u^{16} - 3u^{15} + \cdots + 4u + 1$
c_{11}	$u^{16} - 3u^{15} + \cdots + 4u + 3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{16} + 7y^{15} + \cdots + 9y + 1$
c_2, c_8	$y^{16} + 6y^{15} + \cdots + 11y + 1$
c_3	$y^{16} - 13y^{15} + \cdots - 34y + 1$
c_4	$y^{16} + 14y^{14} + \cdots + 9y + 1$
c_6	$y^{16} + y^{15} + \cdots - 8y + 1$
c_7, c_{11}	$y^{16} - 15y^{15} + \cdots - 52y + 9$
c_9	$y^{16} - y^{15} + \cdots + 8y + 1$
c_{10}	$y^{16} - 11y^{15} + \cdots + 6y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.378111+0.978487I$ $a=-0.666529-0.994815I$ $b=-0.073329+0.541610I$	$-4.37357-6.52510I$	$1.74145+8.04405I$
$u=-0.378111-0.978487I$ $a=-0.666529+0.994815I$ $b=-0.073329-0.541610I$	$-4.37357+6.52510I$	$1.74145-8.04405I$
$u=-0.018830+1.228110I$ $a=\ \ 0.672213-0.674390I$ $b=\ \ 1.228670-0.432911I$	$-1.77120-2.90292I$	$2.29428+12.81390I$
$u=-0.018830-1.228110I$ $a=\ \ 0.672213+0.674390I$ $b=\ \ 1.228670+0.432911I$	$-1.77120+2.90292I$	$2.29428-12.81390I$
$u=\ \ 0.132204+0.702423I$ $a=-0.397911+0.658860I$ $b=-0.487953-0.407538I$	$0.59940+2.95194I$	$3.83398-7.26920I$
$u=\ \ 0.132204-0.702423I$ $a=-0.397911-0.658860I$ $b=-0.487953+0.407538I$	$0.59940-2.95194I$	$3.83398+7.26920I$
$u=-0.179458+1.283900I$ $a=-0.45896-1.46838I$ $b=\ \ 0.73097-1.35093I$	$-8.08336-3.63657I$	$2.99708+2.92692I$
$u=-0.179458-1.283900I$ $a=-0.45896+1.46838I$ $b=\ \ 0.73097+1.35093I$	$-8.08336+3.63657I$	$2.99708-2.92692I$
$u=\ \ 0.352631+1.343290I$ $a=-0.77131+2.08744I$ $b=\ \ 0.33437+1.38072I$	$-8.53798+7.71046I$	$-6.07633-6.67688I$
$u=\ \ 0.352631-1.343290I$ $a=-0.77131-2.08744I$ $b=\ \ 0.33437-1.38072I$	$-8.53798-7.71046I$	$-6.07633+6.67688I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.021984+0.564934I$ $a=\ \ 0.165428-0.113303I$ $b=-0.761615-0.708206I$	$0.61323+2.78453I$	$-4.10721-5.83574I$
$u=-0.021984-0.564934I$ $a=\ \ 0.165428+0.113303I$ $b=-0.761615+0.708206I$	$0.61323-2.78453I$	$-4.10721+5.83574I$
$u=\ \ 0.336771+0.246995I$ $a=-0.41990-3.30846I$ $b=-0.425355-0.816659I$	$-3.30428+2.37215I$	$-2.07418-4.57437I$
$u=\ \ 0.336771-0.246995I$ $a=-0.41990+3.30846I$ $b=-0.425355+0.816659I$	$-3.30428-2.37215I$	$-2.07418+4.57437I$
$u=-2.22322+1.25773I$ $a=-0.123030-0.853242I$ $b=-0.045764-1.056210I$	$-4.75104-0.34808I$	$-9.6091-17.4795I$
$u=-2.22322-1.25773I$ $a=-0.123030+0.853242I$ $b=-0.045764+1.056210I$	$-4.75104+0.34808I$	$-9.6091+17.4795I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{16}-u^{15}+\cdots+3u+1)(u^{86}+28u^{84}+\cdots+558u+43)$
c_2	$(u^{16}+4u^{15}+\cdots-3u+1)(u^{86}-3u^{85}+\cdots+1252u+181)$
c_3	$(u^{16}+3u^{15}+\cdots-6u+1)(u^{86}-10u^{85}+\cdots-377377u+57122)$
c_4	$(u^{16}+2u^{15}+\cdots-u+1)(u^{86}+9u^{85}+\cdots+6249u+722)$
c_5	$(u^{16}+u^{15}+\cdots-3u+1)(u^{86}+28u^{84}+\cdots+558u+43)$
c_6	$(u^{16}-3u^{15}+\cdots-2u+1)(u^{86}-2u^{85}+\cdots+31u+1)$
c_7	$(u^{16}+3u^{15}+\cdots-4u+3)(u^{86}-2u^{85}+\cdots+15u+1)$
c_8	$(u^{16}-4u^{15}+\cdots+3u+1)(u^{86}-3u^{85}+\cdots+1252u+181)$
c_9	$(u^{16}+u^{15}+\cdots-2u+1)(u^{86}+18u^{84}+\cdots+257661u+27211)$
c_{10}	$(u^{16}-3u^{15}+\cdots+4u+1)(u^{86}-2u^{85}+\cdots-11u+1)$
c_{11}	$(u^{16}-3u^{15}+\cdots+4u+3)(u^{86}-2u^{85}+\cdots+15u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{16}+7y^{15}+\cdots+9y+1)(y^{86}+56y^{85}+\cdots+192768y+1849)$
c_2, c_8	$(y^{16}+6y^{15}+\cdots+11y+1)(y^{86}+67y^{85}+\cdots+1561986y+32761)$
c_3	$(y^{16}-13y^{15}+\cdots-34y+1)$ $\cdot(y^{86}-40y^{85}+\cdots-106949549161y+3262922884)$
c_4	$(y^{16}+14y^{14}+\cdots+9y+1)$ $\cdot(y^{86}+21y^{85}+\cdots+18203155y+521284)$
c_6	$(y^{16}+y^{15}+\cdots-8y+1)(y^{86}+2y^{85}+\cdots-173y+1)$
c_7, c_{11}	$(y^{16}-15y^{15}+\cdots-52y+9)(y^{86}-70y^{85}+\cdots+163y+1)$
c_9	$(y^{16}-y^{15}+\cdots+8y+1)$ $\cdot(y^{86}+36y^{85}+\cdots-1107389665y+740438521)$
c_{10}	$(y^{16}-11y^{15}+\cdots+6y+1)(y^{86}-18y^{85}+\cdots-43y+1)$