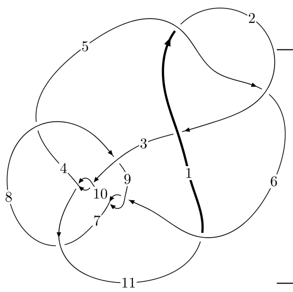
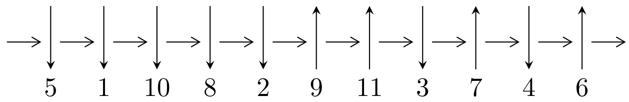
$11a_{147}$ $(K11a_{147})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$2{,}5 \xrightarrow[c_5]{} 6 \xrightarrow[c_1]{} 1 \xrightarrow[c_2]{} 3{,}8 \xrightarrow[c_8]{} 9 \xrightarrow[c_4]{} 4 \xrightarrow[c_{11}]{} 11 \xrightarrow[c_7]{} 7 \xrightarrow[c_{10}]{} 10 \twoheadrightarrow c_3, c_6, c_9$$

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

$$I_1^u = \langle 9.07204 \times 10^{41} u^{77} + 7.90148 \times 10^{41} u^{76} + \cdots + 2.06037 \times 10^{42} b - 1.56482 \times 10^{41},$$
$$1.17116 \times 10^{42} u^{77} + 1.73368 \times 10^{42} u^{76} + \cdots + 2.06037 \times 10^{42} a - 6.11073 \times 10^{42},\ u^{78} + 2u^{77} + \cdots - 2u - 1$$
$$I_2^u = \langle b,\ -3u^2 + 5a + 7u - 6,\ u^3 - u^2 + 1\rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 81 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.

$$\boldsymbol{I_1^u = \langle 9.07\times10^{41}u^{77}+7.90\times10^{41}u^{76}+\cdots+2.06\times10^{42}b-1.56\times10^{41},\ 1.17\times10^{42}u^{77}+1.73\times10^{42}u^{76}+\cdots+2.06\times10^{42}a-6.11\times10^{42},\ u^{78}+2u^{77}+\cdots-2u-1\rangle}$$

(i) Arc colorings

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

$$a_5 = \begin{pmatrix}1\\0\end{pmatrix}$$

$$a_6 = \begin{pmatrix}1\\u^2\end{pmatrix}$$

$$a_1 = \begin{pmatrix}u\\u\end{pmatrix}$$

$$a_3 = \begin{pmatrix}-u^3\\-u^3+u\end{pmatrix}$$

$$a_8 = \begin{pmatrix}-0.568420u^{77}-0.841443u^{76}+\cdots+7.36773u+2.96584\\-0.440311u^{77}-0.383498u^{76}+\cdots+0.720857u+0.0759485\end{pmatrix}$$

$$a_9 = \begin{pmatrix}-1.82193u^{77}-2.29694u^{76}+\cdots+8.78768u+3.83863\\-1.36819u^{77}-2.06052u^{76}+\cdots+2.39639u+1.90814\end{pmatrix}$$

$$a_4 = \begin{pmatrix}-1.18444u^{77}-2.09711u^{76}+\cdots+1.00657u+1.49223\\0.344158u^{77}+1.17317u^{76}+\cdots-0.834190u-1.22870\end{pmatrix}$$

$$a_{11} = \begin{pmatrix}u^3\\u^5-u^3+u\end{pmatrix}$$

$$a_7 = \begin{pmatrix}-1.12364u^{77}-1.00031u^{76}+\cdots+7.99454u+3.41779\\-1.37767u^{77}-1.68487u^{76}+\cdots+2.56542u+1.34481\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}1.18444u^{77}+2.09711u^{76}+\cdots-1.00657u-1.49223\\0.380290u^{77}+1.21706u^{76}+\cdots-0.193293u-1.50047\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}1.18444u^{77}+2.09711u^{76}+\cdots-1.00657u-1.49223\\0.380290u^{77}+1.21706u^{76}+\cdots-0.193293u-1.50047\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 3.52017u^{77}+0.863610u^{76}+\cdots-23.9616u-10.9917$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{78} + 2u^{77} + \cdots - 2u - 1$
c_2	$u^{78} + 38u^{77} + \cdots + 4u + 1$
c_3, c_{10}	$u^{78} + 2u^{77} + \cdots + 4u + 1$
c_4	$u^{78} + 3u^{77} + \cdots + 1620u + 200$
c_6, c_9	$u^{78} + 4u^{77} + \cdots - 349u - 25$
c_7	$5(5u^{78} + 22u^{77} + \cdots - 2074u - 329)$
c_8	$5(5u^{78} - 57u^{77} + \cdots - 1179u - 1431)$
c_{11}	$u^{78} + 6u^{77} + \cdots - 20170u - 4025$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{78} - 38y^{77} + \cdots - 4y + 1$
c_2	$y^{78} + 6y^{77} + \cdots + 8y + 1$
c_3, c_{10}	$y^{78} - 42y^{77} + \cdots - 4y + 1$
c_4	$y^{78} - 21y^{77} + \cdots - 354000y + 40000$
c_6, c_9	$y^{78} - 44y^{77} + \cdots - 59401y + 625$
c_7	$25(25y^{78} + 186y^{77} + \cdots + 726960y + 108241)$
c_8	$25(25y^{78} - 499y^{77} + \cdots - 2.01676 \times 10^7 y + 2047761)$
c_{11}	$y^{78} + 26y^{77} + \cdots - 39169300y + 16200625$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.746844 + 0.705544I$ $a = -0.478258 - 0.846046I$ $b = -0.973201 + 0.859230I$	$1.84214 + 9.51725I$	0
$u = -0.746844 - 0.705544I$ $a = -0.478258 + 0.846046I$ $b = -0.973201 - 0.859230I$	$1.84214 - 9.51725I$	0
$u = 0.733786 + 0.768282I$ $a = -0.238190 + 0.368034I$ $b = -0.480787 - 0.550929I$	$5.29151 - 3.14059I$	0
$u = 0.733786 - 0.768282I$ $a = -0.238190 - 0.368034I$ $b = -0.480787 + 0.550929I$	$5.29151 + 3.14059I$	0
$u = -1.024600 + 0.336794I$ $a = 1.54401 - 1.42228I$ $b = 0.01866 - 1.42927I$	$-2.14618 - 1.33328I$	0
$u = -1.024600 - 0.336794I$ $a = 1.54401 + 1.42228I$ $b = 0.01866 + 1.42927I$	$-2.14618 + 1.33328I$	0
$u = -0.850399 + 0.683748I$ $a = -0.505972 + 0.523823I$ $b = 0.842741 + 0.745286I$	$1.54329 - 4.25093I$	0
$u = -0.850399 - 0.683748I$ $a = -0.505972 - 0.523823I$ $b = 0.842741 - 0.745286I$	$1.54329 + 4.25093I$	0
$u = -0.739719 + 0.511752I$ $a = 0.333454 + 0.752332I$ $b = 0.877805 - 0.981944I$	$-1.96956 + 4.60975I$	$-4.54210 - 7.29697I$
$u = -0.739719 - 0.511752I$ $a = 0.333454 - 0.752332I$ $b = 0.877805 + 0.981944I$	$-1.96956 - 4.60975I$	$-4.54210 + 7.29697I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.309437 + 0.842121I$ $a = -0.303870 - 0.378991I$ $b = -0.893991 + 0.759593I$	$2.88434 + 6.11355I$	$0.57263 - 4.98451I$
$u = 0.309437 - 0.842121I$ $a = -0.303870 + 0.378991I$ $b = -0.893991 - 0.759593I$	$2.88434 - 6.11355I$	$0.57263 + 4.98451I$
$u = 1.030610 + 0.412848I$ $a = 1.68779 - 0.30818I$ $b = 0.372068 + 0.975530I$	$-0.08665 - 1.81934I$	0
$u = 1.030610 - 0.412848I$ $a = 1.68779 + 0.30818I$ $b = 0.372068 - 0.975530I$	$-0.08665 + 1.81934I$	0
$u = -0.289191 + 0.831056I$ $a = -0.532023 + 0.563698I$ $b = -1.25627 - 0.93792I$	$-0.68796 - 12.03560I$	$-2.39702 + 6.80252I$
$u = -0.289191 - 0.831056I$ $a = -0.532023 - 0.563698I$ $b = -1.25627 + 0.93792I$	$-0.68796 + 12.03560I$	$-2.39702 - 6.80252I$
$u = 1.017100 + 0.476390I$ $a = 2.80013 - 1.11064I$ $b = 1.24917 + 0.87506I$	$0.76206 - 1.48191I$	0
$u = 1.017100 - 0.476390I$ $a = 2.80013 + 1.11064I$ $b = 1.24917 - 0.87506I$	$0.76206 + 1.48191I$	0
$u = -0.367142 + 0.771630I$ $a = 0.295260 + 0.430720I$ $b = -0.826296 - 0.097021I$	$-2.74670 - 1.03689I$	$-6.52285 + 3.02306I$
$u = -0.367142 - 0.771630I$ $a = 0.295260 - 0.430720I$ $b = -0.826296 + 0.097021I$	$-2.74670 + 1.03689I$	$-6.52285 - 3.02306I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.149695+0.830340I$ $a=\ \ 0.245507-0.296928I$ $b=\ \ 0.865089-0.200429I$	$-2.45171+2.55877I$	$-5.85987-5.37138I$
$u=-0.149695-0.830340I$ $a=\ \ 0.245507+0.296928I$ $b=\ \ 0.865089+0.200429I$	$-2.45171-2.55877I$	$-5.85987+5.37138I$
$u=-1.088040+0.413183I$ $a=-1.09001+0.98084I$ $b=-0.001009-0.600156I$	$-3.19952+3.59888I$	0
$u=-1.088040-0.413183I$ $a=-1.09001-0.98084I$ $b=-0.001009+0.600156I$	$-3.19952-3.59888I$	0
$u=\ \ 1.139890+0.236298I$ $a=\ \ 1.41756+0.21010I$ $b=\ \ 1.132930+0.048625I$	$-7.37477-1.65920I$	0
$u=\ \ 1.139890-0.236298I$ $a=\ \ 1.41756-0.21010I$ $b=\ \ 1.132930-0.048625I$	$-7.37477+1.65920I$	0
$u=-1.051900+0.501021I$ $a=\ \ 1.93452+1.70901I$ $b=\ \ 1.48871+0.16626I$	$1.14399+4.70367I$	0
$u=-1.051900-0.501021I$ $a=\ \ 1.93452-1.70901I$ $b=\ \ 1.48871-0.16626I$	$1.14399-4.70367I$	0
$u=-1.078790+0.507036I$ $a=\ \ 0.473785+1.201770I$ $b=\ \ 0.961578+0.893094I$	$0.70811+4.91347I$	0
$u=-1.078790-0.507036I$ $a=\ \ 0.473785-1.201770I$ $b=\ \ 0.961578-0.893094I$	$0.70811-4.91347I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.934335 + 0.746651I$ $a = -0.193081 - 0.276408I$ $b = 0.385335 - 0.321158I$	$4.74268 - 2.53637I$	0
$u = 0.934335 - 0.746651I$ $a = -0.193081 + 0.276408I$ $b = 0.385335 + 0.321158I$	$4.74268 + 2.53637I$	0
$u = 1.155640 + 0.314214I$ $a = -1.98719 + 1.54907I$ $b = -1.52907 + 0.68369I$	$-8.20158 + 2.35498I$	0
$u = 1.155640 - 0.314214I$ $a = -1.98719 - 1.54907I$ $b = -1.52907 - 0.68369I$	$-8.20158 - 2.35498I$	0
$u = 1.105230 + 0.476843I$ $a = -1.41172 + 3.06153I$ $b = 0.065078 - 0.438552I$	$-2.73306 - 3.75480I$	0
$u = 1.105230 - 0.476843I$ $a = -1.41172 - 3.06153I$ $b = 0.065078 + 0.438552I$	$-2.73306 + 3.75480I$	0
$u = -1.155380 + 0.357963I$ $a = -1.26784 - 0.83955I$ $b = -0.924109 - 0.405905I$	$-4.19189 + 1.50549I$	0
$u = -1.155380 - 0.357963I$ $a = -1.26784 + 0.83955I$ $b = -0.924109 + 0.405905I$	$-4.19189 - 1.50549I$	0
$u = -0.625614 + 0.475003I$ $a = 1.41445 - 0.35012I$ $b = -0.483183 - 0.492391I$	$-1.77605 - 0.65095I$	$-5.05775 - 1.02917I$
$u = -0.625614 - 0.475003I$ $a = 1.41445 + 0.35012I$ $b = -0.483183 + 0.492391I$	$-1.77605 + 0.65095I$	$-5.05775 + 1.02917I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.096640 + 0.524719I$ $a = -1.33967 - 1.54913I$ $b = 0.48017 - 1.76300I$	$-0.80322 - 8.33176I$	0
$u = 1.096640 - 0.524719I$ $a = -1.33967 + 1.54913I$ $b = 0.48017 + 1.76300I$	$-0.80322 + 8.33176I$	0
$u = -0.238423 + 0.742435I$ $a = 0.513424 - 0.435915I$ $b = 1.44532 + 0.92730I$	$-4.07487 - 5.63539I$	$-5.32059 + 5.07237I$
$u = -0.238423 - 0.742435I$ $a = 0.513424 + 0.435915I$ $b = 1.44532 - 0.92730I$	$-4.07487 + 5.63539I$	$-5.32059 - 5.07237I$
$u = -1.207250 + 0.220796I$ $a = 1.27897 + 0.72201I$ $b = 0.968015 + 0.543909I$	$-2.09592 - 2.91398I$	0
$u = -1.207250 - 0.220796I$ $a = 1.27897 - 0.72201I$ $b = 0.968015 - 0.543909I$	$-2.09592 + 2.91398I$	0
$u = 0.653825 + 0.410103I$ $a = 0.603104 - 0.900709I$ $b = 0.137771 + 0.795666I$	$1.09693 - 1.53880I$	$1.66479 + 5.08310I$
$u = 0.653825 - 0.410103I$ $a = 0.603104 + 0.900709I$ $b = 0.137771 - 0.795666I$	$1.09693 + 1.53880I$	$1.66479 - 5.08310I$
$u = 1.207280 + 0.247867I$ $a = 1.80061 - 1.10036I$ $b = 1.29376 - 0.79776I$	$-5.50516 + 8.73601I$	0
$u = 1.207280 - 0.247867I$ $a = 1.80061 + 1.10036I$ $b = 1.29376 + 0.79776I$	$-5.50516 - 8.73601I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.141590 + 0.513261I$ $a = -1.97225 + 0.58221I$ $b = -0.883958 - 0.783696I$	$-3.10971 - 6.53083I$	0
$u = 1.141590 - 0.513261I$ $a = -1.97225 - 0.58221I$ $b = -0.883958 + 0.783696I$	$-3.10971 + 6.53083I$	0
$u = 0.536973 + 0.520683I$ $a = -0.275984 - 0.550833I$ $b = -0.91164 + 1.14392I$	$2.17308 - 2.60159I$	$2.40455 + 6.09883I$
$u = 0.536973 - 0.520683I$ $a = -0.275984 + 0.550833I$ $b = -0.91164 - 1.14392I$	$2.17308 + 2.60159I$	$2.40455 - 6.09883I$
$u = -0.739477$ $a = 0.804258$ $b = 0.322518$	-0.989802	-10.9810
$u = 1.214520 + 0.340708I$ $a = -1.65330 - 0.02146I$ $b = -1.065870 - 0.267377I$	$-6.71121 - 6.46472I$	0
$u = 1.214520 - 0.340708I$ $a = -1.65330 + 0.02146I$ $b = -1.065870 + 0.267377I$	$-6.71121 + 6.46472I$	0
$u = -1.145480 + 0.533343I$ $a = -2.71029 - 1.10644I$ $b = -1.59668 + 0.98544I$	$-6.70525 + 10.43610I$	0
$u = -1.145480 - 0.533343I$ $a = -2.71029 + 1.10644I$ $b = -1.59668 - 0.98544I$	$-6.70525 - 10.43610I$	0
$u = -1.129540 + 0.584934I$ $a = 0.773398 + 1.151490I$ $b = 0.901036 - 0.260596I$	$-5.00368 + 6.17548I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.129540 - 0.584934I$ $a = 0.773398 - 1.151490I$ $b = 0.901036 + 0.260596I$	$-5.00368 - 6.17548I$	0
$u = 0.193316 + 0.691312I$ $a = 0.545322 + 0.428076I$ $b = 0.704072 - 0.657723I$	$-0.42144 + 1.94552I$	$-2.30995 - 3.00822I$
$u = 0.193316 - 0.691312I$ $a = 0.545322 - 0.428076I$ $b = 0.704072 + 0.657723I$	$-0.42144 - 1.94552I$	$-2.30995 + 3.00822I$
$u = 0.325468 + 0.636702I$ $a = -0.138810 + 0.488594I$ $b = -0.55951 - 1.52885I$	$1.40525 + 3.78104I$	$0.49759 - 6.55380I$
$u = 0.325468 - 0.636702I$ $a = -0.138810 - 0.488594I$ $b = -0.55951 + 1.52885I$	$1.40525 - 3.78104I$	$0.49759 + 6.55380I$
$u = -1.187200 + 0.508151I$ $a = -1.06426 - 1.06765I$ $b = -0.898331 - 0.033808I$	$-5.56201 + 2.30321I$	0
$u = -1.187200 - 0.508151I$ $a = -1.06426 + 1.06765I$ $b = -0.898331 + 0.033808I$	$-5.56201 - 2.30321I$	0
$u = -1.162450 + 0.573065I$ $a = 2.39742 + 1.05722I$ $b = 1.32796 - 0.97627I$	$-3.2894 + 17.2353I$	0
$u = -1.162450 - 0.573065I$ $a = 2.39742 - 1.05722I$ $b = 1.32796 + 0.97627I$	$-3.2894 - 17.2353I$	0
$u = 1.160070 + 0.582250I$ $a = 1.80074 - 0.72766I$ $b = 0.995785 + 0.824598I$	$0.33944 - 11.38210I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.160070 - 0.582250I$ $a = 1.80074 + 0.72766I$ $b = 0.995785 - 0.824598I$	$0.33944 + 11.38210I$	0
$u = -0.432470 + 0.537624I$ $a = -0.965637 + 0.005674I$ $b = -1.239030 - 0.068800I$	$2.94199 - 0.45731I$	$3.21783 + 1.77421I$
$u = -0.432470 - 0.537624I$ $a = -0.965637 - 0.005674I$ $b = -1.239030 + 0.068800I$	$2.94199 + 0.45731I$	$3.21783 - 1.77421I$
$u = -0.365285 + 0.557959I$ $a = -0.893897 - 0.608044I$ $b = -0.953283 + 0.561262I$	$2.76015 - 0.59113I$	$3.15854 - 1.26752I$
$u = -0.365285 - 0.557959I$ $a = -0.893897 + 0.608044I$ $b = -0.953283 - 0.561262I$	$2.76015 + 0.59113I$	$3.15854 + 1.26752I$
$u = 0.594731$ $a = 8.24266$ $b = 0.365566$	0.210538	-40.2340
$u = 0.152062 + 0.532162I$ $a = 3.33933 + 3.13837I$ $b = 0.119106 - 0.447244I$	$-0.213305 - 0.310477I$	$5.75572 - 9.22224I$
$u = 0.152062 - 0.532162I$ $a = 3.33933 - 3.13837I$ $b = 0.119106 + 0.447244I$	$-0.213305 + 0.310477I$	$5.75572 + 9.22224I$

II. $I_2^u = \langle b,\ -3u^2+5a+7u-6,\ u^3-u^2+1\rangle$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u^2+1 \\ -u^2+u+1 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} \frac{3}{5}u^2-\frac{7}{5}u+\frac{6}{5} \\ 0 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} \frac{2}{5}u^2-\frac{8}{5}u+\frac{4}{5} \\ -\frac{2}{5}u^2-\frac{2}{5}u+\frac{1}{5} \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} u^2-1 \\ -u^2 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} \frac{2}{5}u^2-\frac{8}{5}u+\frac{9}{5} \\ \frac{3}{5}u^2-\frac{2}{5}u+\frac{1}{5} \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -1 \\ -u^2 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -1 \\ -u^2 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{277}{25}u^2 - \frac{93}{25}u - \frac{181}{25}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^3 + u^2 - 1$
c_2, c_3	$u^3 + u^2 + 2u + 1$
c_4	u^3
c_5	$u^3 - u^2 + 1$
c_6	$(u + 1)^3$
c_7	$5(5u^3 + 11u^2 + 6u + 1)$
c_8	$5(5u^3 + 4u^2 + u + 1)$
c_9	$(u - 1)^3$
c_{10}	$u^3 - u^2 + 2u - 1$
c_{11}	$u^3 + 3u^2 + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^3 - y^2 + 2y - 1$
c_2, c_3, c_{10}	$y^3 + 3y^2 + 2y - 1$
c_4	y^3
c_6, c_9	$(y-1)^3$
c_7	$25(25y^3 - 61y^2 + 14y - 1)$
c_8	$25(25y^3 - 6y^2 - 7y - 1)$
c_{11}	$y^3 - 5y^2 + 10y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.877439 + 0.744862I$ $a = 0.100634 - 0.258522I$ $b = 0$	$4.66906 - 2.82812I$	$-8.1210 + 11.7122I$
$u = 0.877439 - 0.744862I$ $a = 0.100634 + 0.258522I$ $b = 0$	$4.66906 + 2.82812I$	$-8.1210 - 11.7122I$
$u = -0.754878$ $a = 2.59873$ $b = 0$	0.531480	1.88200

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^3+u^2-1)(u^{78}+2u^{77}+\cdots-2u-1)$
c_2	$(u^3+u^2+2u+1)(u^{78}+38u^{77}+\cdots+4u+1)$
c_3	$(u^3+u^2+2u+1)(u^{78}+2u^{77}+\cdots+4u+1)$
c_4	$u^3(u^{78}+3u^{77}+\cdots+1620u+200)$
c_5	$(u^3-u^2+1)(u^{78}+2u^{77}+\cdots-2u-1)$
c_6	$((u+1)^3)(u^{78}+4u^{77}+\cdots-349u-25)$
c_7	$25(5u^3+11u^2+6u+1)(5u^{78}+22u^{77}+\cdots-2074u-329)$
c_8	$25(5u^3+4u^2+u+1)(5u^{78}-57u^{77}+\cdots-1179u-1431)$
c_9	$((u-1)^3)(u^{78}+4u^{77}+\cdots-349u-25)$
c_{10}	$(u^3-u^2+2u-1)(u^{78}+2u^{77}+\cdots+4u+1)$
c_{11}	$(u^3+3u^2+2u-1)(u^{78}+6u^{77}+\cdots-20170u-4025)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^3 - y^2 + 2y - 1)(y^{78} - 38y^{77} + \cdots - 4y + 1)$
c_2	$(y^3 + 3y^2 + 2y - 1)(y^{78} + 6y^{77} + \cdots + 8y + 1)$
c_3, c_{10}	$(y^3 + 3y^2 + 2y - 1)(y^{78} - 42y^{77} + \cdots - 4y + 1)$
c_4	$y^3(y^{78} - 21y^{77} + \cdots - 354000y + 40000)$
c_6, c_9	$((y-1)^3)(y^{78} - 44y^{77} + \cdots - 59401y + 625)$
c_7	$625(25y^3 - 61y^2 + 14y - 1)$ $\cdot (25y^{78} + 186y^{77} + \cdots + 726960y + 108241)$
c_8	$625(25y^3 - 6y^2 - 7y - 1)$ $\cdot (25y^{78} - 499y^{77} + \cdots - 20167623y + 2047761)$
c_{11}	$(y^3 - 5y^2 + 10y - 1)(y^{78} + 26y^{77} + \cdots - 3.91693 \times 10^7 y + 1.62006 \times 10^7)$