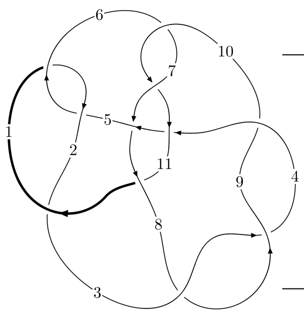
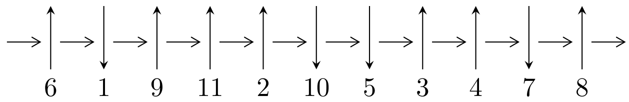
$11a_{146}$ $(K11a_{146})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & -1.16236 \times 10^{103} u^{74} + 3.74125 \times 10^{102} u^{73} + \cdots + 1.41576 \times 10^{103} b - 7.11244 \times 10^{103}, \\
& 7.14613 \times 10^{103} u^{74} - 3.17559 \times 10^{103} u^{73} + \cdots + 9.91035 \times 10^{103} a + 2.29421 \times 10^{104}, \\
& u^{75} + 15u^{73} + \cdots - 20u + 7 \rangle \\
I_2^u = \langle & -u^{13} - 3u^{11} - 7u^9 - 9u^7 + u^6 - 9u^5 + 2u^4 - 5u^3 + u^2 + b - 3u, \\
& - u^{13} + 4u^{12} - 6u^{11} + 13u^{10} - 14u^9 + 27u^8 - 22u^7 + 34u^6 - 24u^5 + 30u^4 - 19u^3 + 15u^2 + a - 6u + 5, \\
& u^{14} - u^{13} + 4u^{12} - 3u^{11} + 9u^{10} - 6u^9 + 13u^8 - 8u^7 + 13u^6 - 8u^5 + 9u^4 - 4u^3 + 4u^2 - u + 1 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 89 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. $\boldsymbol{I_1^u = \langle -1.16 \times 10^{103}u^{74} + 3.74 \times 10^{102}u^{73} + \cdots + 1.42 \times 10^{103}b - 7.11 \times 10^{103},\ 7.15 \times 10^{103}u^{74} - 3.18 \times 10^{103}u^{73} + \cdots + 9.91 \times 10^{103}a + 2.29 \times 10^{104},\ u^{75} + 15u^{73} + \cdots - 20u + 7\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

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

$$a_8 = \begin{pmatrix} -0.721078u^{74} + 0.320432u^{73} + \cdots - 5.32211u - 2.31497 \\ 0.821010u^{74} - 0.264257u^{73} + \cdots - 12.5249u + 5.02375 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.810814u^{74} + 1.04372u^{73} + \cdots - 19.2078u + 1.26956 \\ 1.59265u^{74} - 0.838121u^{73} + \cdots - 10.7401u + 6.06974 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.886848u^{74} + 0.735561u^{73} + \cdots - 9.13546u - 1.57363 \\ 1.30627u^{74} - 0.520026u^{73} + \cdots - 18.1745u + 7.18831 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.06655u^{74} - 1.00342u^{73} + \cdots + 16.8816u + 0.960205 \\ -0.756010u^{74} + 0.0457275u^{73} + \cdots + 22.8247u - 7.73329 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.0614847u^{74} + 0.125592u^{73} + \cdots + 1.89652u + 0.236355 \\ -0.0748893u^{74} + 0.280213u^{73} + \cdots - 0.209838u + 0.00750577 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.579776u^{74} + 0.227218u^{73} + \cdots + 5.38557u - 1.00498 \\ 0.547002u^{74} - 0.277744u^{73} + \cdots - 8.65299u + 2.85168 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.579776u^{74} + 0.227218u^{73} + \cdots + 5.38557u - 1.00498 \\ 0.547002u^{74} - 0.277744u^{73} + \cdots - 8.65299u + 2.85168 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.0573232u^{74} + 0.652315u^{73} + \cdots + 33.0747u - 8.02057$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{75} + 15u^{73} + \cdots - 20u - 7$
c_2	$u^{75} + 30u^{74} + \cdots + 288u - 49$
c_3, c_8, c_9	$u^{75} + u^{74} + \cdots - 23u - 1$
c_4	$u^{75} - 3u^{74} + \cdots + 15u + 1$
c_6, c_{10}	$u^{75} - u^{74} + \cdots - 29u - 2$
c_7	$u^{75} - 2u^{74} + \cdots - 17u + 1$
c_{11}	$u^{75} - 5u^{74} + \cdots + 36831u - 8639$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{75} + 30y^{74} + \cdots + 288y - 49$
c_2	$y^{75} + 38y^{74} + \cdots + 546484y - 2401$
c_3, c_8, c_9	$y^{75} - 77y^{74} + \cdots + 71y - 1$
c_4	$y^{75} - y^{74} + \cdots - 29y - 1$
c_6, c_{10}	$y^{75} - 43y^{74} + \cdots + 321y - 4$
c_7	$y^{75} - 8y^{74} + \cdots - 25y - 1$
c_{11}	$y^{75} - 21y^{74} + \cdots + 1725459695y - 74632321$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.583753+0.813835I$ $a=\ \ 1.58625+0.14110I$ $b=-0.21446+2.00505I$	$2.35458+1.52998I$	$4.39480+0.I$
$u=-0.583753-0.813835I$ $a=\ \ 1.58625-0.14110I$ $b=-0.21446-2.00505I$	$2.35458-1.52998I$	$4.39480+0.I$
$u=-0.849508+0.542374I$ $a=-1.19541-1.04425I$ $b=\ \ 1.63768+0.71839I$	$9.48673+3.80892I$	$9.50577-2.11566I$
$u=-0.849508-0.542374I$ $a=-1.19541+1.04425I$ $b=\ \ 1.63768-0.71839I$	$9.48673-3.80892I$	$9.50577+2.11566I$
$u=-0.219708+0.997660I$ $a=\ \ 0.313694-0.499917I$ $b=-0.556012-1.022730I$	$-3.84788-0.02965I$	$-1.99150+0.I$
$u=-0.219708-0.997660I$ $a=\ \ 0.313694+0.499917I$ $b=-0.556012+1.022730I$	$-3.84788+0.02965I$	$-1.99150+0.I$
$u=\ \ 0.932408+0.222383I$ $a=-0.471108-0.020661I$ $b=\ \ 1.033510-0.122082I$	$8.24157+0.11075I$	$14.1787+1.9734I$
$u=\ \ 0.932408-0.222383I$ $a=-0.471108+0.020661I$ $b=\ \ 1.033510+0.122082I$	$8.24157-0.11075I$	$14.1787-1.9734I$
$u=\ \ 0.564610+0.759254I$ $a=-1.111500-0.152357I$ $b=\ \ 1.264580-0.419226I$	$7.40917+1.28073I$	$5.11860-6.28891I$
$u=\ \ 0.564610-0.759254I$ $a=-1.111500+0.152357I$ $b=\ \ 1.264580+0.419226I$	$7.40917-1.28073I$	$5.11860+6.28891I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.808914 + 0.489775I$ $a = -1.29004 + 0.89724I$ $b = 0.946433 - 0.610763I$	$-0.30295 - 6.24808I$	$3.92390 + 5.63947I$
$u = 0.808914 - 0.489775I$ $a = -1.29004 - 0.89724I$ $b = 0.946433 + 0.610763I$	$-0.30295 + 6.24808I$	$3.92390 - 5.63947I$
$u = 0.419276 + 0.968552I$ $a = -1.37090 + 0.96007I$ $b = 1.275450 + 0.547400I$	$-3.84184 + 1.43557I$	0
$u = 0.419276 - 0.968552I$ $a = -1.37090 - 0.96007I$ $b = 1.275450 - 0.547400I$	$-3.84184 - 1.43557I$	0
$u = -0.583811 + 0.895077I$ $a = -0.752626 + 0.749520I$ $b = -0.75640 - 2.07806I$	$2.09042 - 6.16494I$	0
$u = -0.583811 - 0.895077I$ $a = -0.752626 - 0.749520I$ $b = -0.75640 + 2.07806I$	$2.09042 + 6.16494I$	0
$u = 0.671530 + 0.632305I$ $a = 1.07681 - 1.02346I$ $b = -1.032100 + 0.508181I$	$2.52677 - 1.24936I$	$7.69965 + 2.52698I$
$u = 0.671530 - 0.632305I$ $a = 1.07681 + 1.02346I$ $b = -1.032100 - 0.508181I$	$2.52677 + 1.24936I$	$7.69965 - 2.52698I$
$u = -0.663268 + 0.853569I$ $a = -1.37734 - 0.72160I$ $b = 0.758278 - 0.141213I$	$1.06443 - 2.57629I$	0
$u = -0.663268 - 0.853569I$ $a = -1.37734 + 0.72160I$ $b = 0.758278 + 0.141213I$	$1.06443 + 2.57629I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.663115+0.870319I$ $a=-1.33003-0.51217I$ $b=\ \ 0.769435-0.207041I$	$1.03816-2.56974I$	0
$u=-0.663115-0.870319I$ $a=-1.33003+0.51217I$ $b=\ \ 0.769435+0.207041I$	$1.03816+2.56974I$	0
$u=-0.329445+0.834791I$ $a=\ \ 2.36627+0.05733I$ $b=-1.18992+0.99392I$	$0.58773+2.04231I$	$0.69192+3.19638I$
$u=-0.329445-0.834791I$ $a=\ \ 2.36627-0.05733I$ $b=-1.18992-0.99392I$	$0.58773-2.04231I$	$0.69192-3.19638I$
$u=-0.573961+0.682020I$ $a=\ \ 1.38069+1.62918I$ $b=-0.573303-0.057484I$	$-0.601433+0.843152I$	$6.25066-1.26638I$
$u=-0.573961-0.682020I$ $a=\ \ 1.38069-1.62918I$ $b=-0.573303+0.057484I$	$-0.601433-0.843152I$	$6.25066+1.26638I$
$u=\ \ 0.791734+0.779097I$ $a=\ \ 0.992300-0.187859I$ $b=-1.143650+0.488302I$	$6.79170-1.71786I$	0
$u=\ \ 0.791734-0.779097I$ $a=\ \ 0.992300+0.187859I$ $b=-1.143650-0.488302I$	$6.79170+1.71786I$	0
$u=\ \ 0.005828+1.116560I$ $a=\ \ 0.962671-0.065388I$ $b=\ \ 0.771794+0.649501I$	$3.39834+2.32606I$	0
$u=\ \ 0.005828-1.116560I$ $a=\ \ 0.962671+0.065388I$ $b=\ \ 0.771794-0.649501I$	$3.39834-2.32606I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.607031 + 0.944057I$ $a = -0.61211 + 1.40952I$ $b = 0.795124 + 0.593814I$	$6.78271 + 3.40013I$	0
$u = 0.607031 - 0.944057I$ $a = -0.61211 - 1.40952I$ $b = 0.795124 - 0.593814I$	$6.78271 - 3.40013I$	0
$u = 0.446827 + 1.030770I$ $a = 0.383255 + 0.716019I$ $b = 0.78263 - 1.25594I$	$-3.66270 + 4.65674I$	0
$u = 0.446827 - 1.030770I$ $a = 0.383255 - 0.716019I$ $b = 0.78263 + 1.25594I$	$-3.66270 - 4.65674I$	0
$u = -0.821168 + 0.772543I$ $a = -0.915115 - 0.063644I$ $b = 0.670177 - 0.265353I$	$0.90357 - 3.01315I$	0
$u = -0.821168 - 0.772543I$ $a = -0.915115 + 0.063644I$ $b = 0.670177 + 0.265353I$	$0.90357 + 3.01315I$	0
$u = -0.997300 + 0.535698I$ $a = 1.041710 + 0.863157I$ $b = -1.41132 - 0.74352I$	$6.61694 + 10.02950I$	0
$u = -0.997300 - 0.535698I$ $a = 1.041710 - 0.863157I$ $b = -1.41132 + 0.74352I$	$6.61694 - 10.02950I$	0
$u = -0.594753 + 0.976447I$ $a = 1.76760 + 0.27801I$ $b = -0.992629 + 0.317325I$	$-1.52512 - 5.54501I$	0
$u = -0.594753 - 0.976447I$ $a = 1.76760 - 0.27801I$ $b = -0.992629 - 0.317325I$	$-1.52512 + 5.54501I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.034915+0.842594I$ $a=-0.508060+0.814343I$ $b=-0.096919+0.903738I$	$-1.98038-1.28024I$	$-1.71519+5.23822I$
$u=-0.034915-0.842594I$ $a=-0.508060-0.814343I$ $b=-0.096919-0.903738I$	$-1.98038+1.28024I$	$-1.71519-5.23822I$
$u=\ \ 0.628874+0.990800I$ $a=\ \ 1.66426-0.68833I$ $b=-1.19979-0.86296I$	$1.46459+6.31124I$	0
$u=\ \ 0.628874-0.990800I$ $a=\ \ 1.66426+0.68833I$ $b=-1.19979+0.86296I$	$1.46459-6.31124I$	0
$u=\ \ 0.736446+0.947781I$ $a=\ \ 1.17778-1.13785I$ $b=-0.887098-0.641638I$	$6.26955+7.47029I$	0
$u=\ \ 0.736446-0.947781I$ $a=\ \ 1.17778+1.13785I$ $b=-0.887098+0.641638I$	$6.26955-7.47029I$	0
$u=\ \ 0.028864+1.205850I$ $a=\ \ 0.030043-0.158897I$ $b=\ \ 0.525695-0.912935I$	$-6.15424-4.21404I$	0
$u=\ \ 0.028864-1.205850I$ $a=\ \ 0.030043+0.158897I$ $b=\ \ 0.525695+0.912935I$	$-6.15424+4.21404I$	0
$u=-0.423126+1.151840I$ $a=\ \ 0.063280+1.381230I$ $b=-1.57483-0.26636I$	$-1.02193-4.09857I$	0
$u=-0.423126-1.151840I$ $a=\ \ 0.063280-1.381230I$ $b=-1.57483+0.26636I$	$-1.02193+4.09857I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.768859$ $a=\ \ 1.67495$ $b=-1.47011$	2.41244	3.98160
$u=\ \ 0.652679+1.083040I$ $a=-1.61651+0.66348I$ $b=\ \ 1.173460+0.781385I$	$-2.04951+11.72600I$	0
$u=\ \ 0.652679-1.083040I$ $a=-1.61651-0.66348I$ $b=\ \ 1.173460-0.781385I$	$-2.04951-11.72600I$	0
$u=\ \ 1.110230+0.622964I$ $a=\ \ 0.516528-0.163821I$ $b=-0.894451+0.337332I$	$6.65332+3.38709I$	0
$u=\ \ 1.110230-0.622964I$ $a=\ \ 0.516528+0.163821I$ $b=-0.894451-0.337332I$	$6.65332-3.38709I$	0
$u=-0.558544+1.146300I$ $a=\ \ 0.559124+0.593863I$ $b=-0.774731+0.320056I$	$-1.85708-4.63248I$	0
$u=-0.558544-1.146300I$ $a=\ \ 0.559124-0.593863I$ $b=-0.774731-0.320056I$	$-1.85708+4.63248I$	0
$u=-0.673658+1.087130I$ $a=-1.53716-1.02912I$ $b=\ \ 1.69251-1.06931I$	$7.83095-9.48733I$	0
$u=-0.673658-1.087130I$ $a=-1.53716+1.02912I$ $b=\ \ 1.69251+1.06931I$	$7.83095+9.48733I$	0
$u=-0.228067+0.674546I$ $a=-2.29484+1.49946I$ $b=-0.092638-0.627623I$	$0.91162-4.36069I$	$4.50920+7.60061I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.228067-0.674546I$ $a=-2.29484-1.49946I$ $b=-0.092638+0.627623I$	$0.91162+4.36069I$	$4.50920-7.60061I$
$u=\ \ 0.129319+0.675423I$ $a=-1.34198+0.85690I$ $b=\ \ 0.014926+1.085660I$	$-1.94755-1.36953I$	$-1.12148+5.96580I$
$u=\ \ 0.129319-0.675423I$ $a=-1.34198-0.85690I$ $b=\ \ 0.014926-1.085660I$	$-1.94755+1.36953I$	$-1.12148-5.96580I$
$u=-0.727326+1.141520I$ $a=\ \ 1.44570+0.77630I$ $b=-1.46957+1.03381I$	$4.7307-16.2882I$	0
$u=-0.727326-1.141520I$ $a=\ \ 1.44570-0.77630I$ $b=-1.46957-1.03381I$	$4.7307+16.2882I$	0
$u=-0.604095+0.124629I$ $a=\ \ 0.520584-0.161680I$ $b=-0.562665+0.068774I$	$0.988802-0.029608I$	$10.70489+0.11784I$
$u=-0.604095-0.124629I$ $a=\ \ 0.520584+0.161680I$ $b=-0.562665-0.068774I$	$0.988802+0.029608I$	$10.70489-0.11784I$
$u=\ \ 0.853645+1.095880I$ $a=\ \ 0.902335-0.386675I$ $b=-0.753531-0.798272I$	$5.21306+3.57822I$	0
$u=\ \ 0.853645-1.095880I$ $a=\ \ 0.902335+0.386675I$ $b=-0.753531+0.798272I$	$5.21306-3.57822I$	0
$u=\ \ 0.095706+1.407540I$ $a=-0.286428+0.016195I$ $b=-0.719842-0.514282I$	$-1.04032+7.25828I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.095706 - 1.407540I$ $a = -0.286428 - 0.016195I$ $b = -0.719842 + 0.514282I$	$-1.04032 - 7.25828I$	0
$u = 0.75306 + 1.24388I$ $a = -0.545367 + 0.387882I$ $b = 0.683526 + 0.725105I$	$5.24327 + 6.25276I$	0
$u = 0.75306 - 1.24388I$ $a = -0.545367 - 0.387882I$ $b = 0.683526 - 0.725105I$	$5.24327 - 6.25276I$	0
$u = 0.276964 + 0.055334I$ $a = -3.24614 - 1.82467I$ $b = 0.335709 + 0.635949I$	$-1.70721 - 1.28972I$	$-0.48854 + 2.47606I$
$u = 0.276964 - 0.055334I$ $a = -3.24614 + 1.82467I$ $b = 0.335709 - 0.635949I$	$-1.70721 + 1.28972I$	$-0.48854 - 2.47606I$

II.

$\boldsymbol{I_2^u = \langle -u^{13} - 3u^{11} + \cdots + b - 3u,\ -u^{13} + 4u^{12} + \cdots + a + 5,\ u^{14} - u^{13} + \cdots - u + 1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_6 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} u^2+1 \\ -u^2 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} u^{13} - 4u^{12} + \cdots + 6u - 5 \\ u^{13} + 3u^{11} + 7u^9 + 9u^7 - u^6 + 9u^5 - 2u^4 + 5u^3 - u^2 + 3u \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 2u^{13} - 4u^{12} + \cdots + 6u - 4 \\ u^{12} + 2u^{10} + u^9 + 4u^8 + 2u^7 + 4u^6 + 3u^5 + 3u^4 + 2u^3 + u^2 + 2u + 1 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$
$$a_7 = \begin{pmatrix} u^{13} - 4u^{12} + \cdots + 4u - 4 \\ u^{13} - u^{12} + \cdots + 5u - 1 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -4u^{13} + u^{12} + \cdots - 4u - 3 \\ 2u^{13} - 2u^{12} + \cdots + 3u - 2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} -2u^{13} + 4u^{12} + \cdots - 5u + 4 \\ -u^{13} - 3u^{11} - 6u^9 - 7u^7 + u^6 - 5u^5 + 2u^4 - u^3 - u - 1 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -u^{13} + u^{12} + \cdots - u + 1 \\ -u^{13} - 2u^{11} - 2u^{10} - 3u^9 - 5u^8 - 2u^7 - 8u^6 - 8u^4 + 2u^3 - 6u^2 + u - 2 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} -u^{13} + u^{12} + \cdots - u + 1 \\ -u^{13} - 2u^{11} - 2u^{10} - 3u^9 - 5u^8 - 2u^7 - 8u^6 - 8u^4 + 2u^3 - 6u^2 + u - 2 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes
$= 5u^{13} - 3u^{12} + 15u^{11} - 9u^{10} + 32u^9 - 17u^8 + 38u^7 - 24u^6 + 33u^5 - 21u^4 + 18u^3 - 7u^2 + 11u$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{14} - u^{13} + \cdots - u + 1$
c_2	$u^{14} + 7u^{13} + \cdots + 7u + 1$
c_3	$u^{14} - 8u^{12} + \cdots - 2u^2 + 1$
c_4	$u^{14} + 5u^{11} + 2u^{10} + 3u^9 + 9u^8 + u^7 + 8u^6 + 3u^5 + 4u^4 + 2u^3 + 2u^2 + 1$
c_5	$u^{14} + u^{13} + \cdots + u + 1$
c_6	$u^{14} + 2u^{13} + \cdots + 2u + 1$
c_7	$u^{14} + 3u^{13} + 3u^{12} - u^{11} - 6u^{10} - 6u^9 + 2u^8 + 6u^7 + u^6 + 3u^4 - 2u^2 + 1$
c_8, c_9	$u^{14} - 8u^{12} + \cdots - 2u^2 + 1$
c_{10}	$u^{14} - 2u^{13} + \cdots - 2u + 1$
c_{11}	$u^{14} + 2u^{12} + 3u^{11} + 3u^{10} + 4u^9 + 5u^8 + 6u^7 + 5u^6 + 2u^5 + u^4 - 2u^3 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{14} + 7y^{13} + \cdots + 7y + 1$
c_2	$y^{14} + 7y^{13} + \cdots + 3y + 1$
c_3, c_8, c_9	$y^{14} - 16y^{13} + \cdots - 4y + 1$
c_4	$y^{14} + 4y^{12} + \cdots + 4y + 1$
c_6, c_{10}	$y^{14} - 10y^{13} + \cdots - 14y + 1$
c_7	$y^{14} - 3y^{13} + \cdots - 4y + 1$
c_{11}	$y^{14} + 4y^{13} + \cdots + 2y^2 + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.734849 + 0.838959I$ $a = -1.208620 - 0.185596I$ $b = 0.582713 - 0.256653I$	$0.32678 - 2.81352I$	$-3.82759 + 3.54032I$
$u = -0.734849 - 0.838959I$ $a = -1.208620 + 0.185596I$ $b = 0.582713 + 0.256653I$	$0.32678 + 2.81352I$	$-3.82759 - 3.54032I$
$u = -0.418839 + 1.066630I$ $a = 0.291345 + 0.378834I$ $b = -0.473607 - 0.671965I$	$-3.30861 - 3.80056I$	$-0.83959 + 2.34062I$
$u = -0.418839 - 1.066630I$ $a = 0.291345 - 0.378834I$ $b = -0.473607 + 0.671965I$	$-3.30861 + 3.80056I$	$-0.83959 - 2.34062I$
$u = 0.316820 + 1.106540I$ $a = 0.82774 + 1.28027I$ $b = 0.896791 - 0.980193I$	$-0.69663 + 5.04325I$	$1.15268 - 7.45720I$
$u = 0.316820 - 1.106540I$ $a = 0.82774 - 1.28027I$ $b = 0.896791 + 0.980193I$	$-0.69663 - 5.04325I$	$1.15268 + 7.45720I$
$u = 0.675866 + 0.491616I$ $a = 0.482814 + 0.404595I$ $b = -1.045010 + 0.289500I$	$7.41228 + 0.32675I$	$4.63259 + 0.70876I$
$u = 0.675866 - 0.491616I$ $a = 0.482814 - 0.404595I$ $b = -1.045010 - 0.289500I$	$7.41228 - 0.32675I$	$4.63259 - 0.70876I$
$u = 0.201031 + 0.762183I$ $a = -2.79799 + 0.26537I$ $b = 0.54393 + 1.41064I$	$0.75311 - 2.85458I$	$1.50497 + 5.64699I$
$u = 0.201031 - 0.762183I$ $a = -2.79799 - 0.26537I$ $b = 0.54393 - 1.41064I$	$0.75311 + 2.85458I$	$1.50497 - 5.64699I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.330549 + 0.694071I$ $a = 1.23852 + 1.22506I$ $b = 0.019637 + 0.950071I$	$-1.85356 + 0.60321I$	$0.34386 + 3.01291I$
$u = -0.330549 - 0.694071I$ $a = 1.23852 - 1.22506I$ $b = 0.019637 - 0.950071I$	$-1.85356 - 0.60321I$	$0.34386 - 3.01291I$
$u = 0.790520 + 1.084840I$ $a = 0.666179 - 0.467389I$ $b = -0.524461 - 0.759534I$	$5.59130 + 5.55392I$	$7.03309 - 2.81100I$
$u = 0.790520 - 1.084840I$ $a = 0.666179 + 0.467389I$ $b = -0.524461 + 0.759534I$	$5.59130 - 5.55392I$	$7.03309 + 2.81100I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{14} - u^{13} + \cdots - u + 1)(u^{75} + 15u^{73} + \cdots - 20u - 7)$
c_2	$(u^{14} + 7u^{13} + \cdots + 7u + 1)(u^{75} + 30u^{74} + \cdots + 288u - 49)$
c_3	$(u^{14} - 8u^{12} + \cdots - 2u^2 + 1)(u^{75} + u^{74} + \cdots - 23u - 1)$
c_4	$(u^{14} + 5u^{11} + 2u^{10} + 3u^9 + 9u^8 + u^7 + 8u^6 + 3u^5 + 4u^4 + 2u^3 + 2u^2 + 1)$ $\cdot (u^{75} - 3u^{74} + \cdots + 15u + 1)$
c_5	$(u^{14} + u^{13} + \cdots + u + 1)(u^{75} + 15u^{73} + \cdots - 20u - 7)$
c_6	$(u^{14} + 2u^{13} + \cdots + 2u + 1)(u^{75} - u^{74} + \cdots - 29u - 2)$
c_7	$(u^{14} + 3u^{13} + 3u^{12} - u^{11} - 6u^{10} - 6u^9 + 2u^8 + 6u^7 + u^6 + 3u^4 - 2u^2 + 1)$ $\cdot (u^{75} - 2u^{74} + \cdots - 17u + 1)$
c_8, c_9	$(u^{14} - 8u^{12} + \cdots - 2u^2 + 1)(u^{75} + u^{74} + \cdots - 23u - 1)$
c_{10}	$(u^{14} - 2u^{13} + \cdots - 2u + 1)(u^{75} - u^{74} + \cdots - 29u - 2)$
c_{11}	$(u^{14} + 2u^{12} + 3u^{11} + 3u^{10} + 4u^9 + 5u^8 + 6u^7 + 5u^6 + 2u^5 + u^4 - 2u^3 + 1)$ $\cdot (u^{75} - 5u^{74} + \cdots + 36831u - 8639)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{14}+7y^{13}+\cdots+7y+1)(y^{75}+30y^{74}+\cdots+288y-49)$
c_2	$(y^{14}+7y^{13}+\cdots+3y+1)(y^{75}+38y^{74}+\cdots+546484y-2401)$
c_3, c_8, c_9	$(y^{14}-16y^{13}+\cdots-4y+1)(y^{75}-77y^{74}+\cdots+71y-1)$
c_4	$(y^{14}+4y^{12}+\cdots+4y+1)(y^{75}-y^{74}+\cdots-29y-1)$
c_6, c_{10}	$(y^{14}-10y^{13}+\cdots-14y+1)(y^{75}-43y^{74}+\cdots+321y-4)$
c_7	$(y^{14}-3y^{13}+\cdots-4y+1)(y^{75}-8y^{74}+\cdots-25y-1)$
c_{11}	$(y^{14}+4y^{13}+\cdots+2y^2+1)$ $\cdot(y^{75}-21y^{74}+\cdots+1725459695y-74632321)$