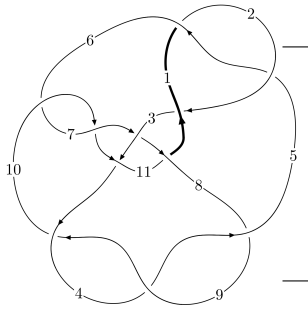
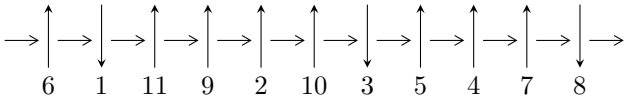
$11a_{122}$ $(K11a_{122})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & 1.11816 \times 10^{100} u^{76} + 2.64440 \times 10^{100} u^{75} + \cdots + 6.73504 \times 10^{100} b - 1.22538 \times 10^{101}, \\ & 1.71883 \times 10^{101} u^{76} + 1.13256 \times 10^{100} u^{75} + \cdots + 6.73504 \times 10^{100} a + 2.54056 \times 10^{102}, \\ & u^{77} + 17u^{75} + \cdots + 27u - 19 \rangle \\ I_2^u = \langle & -2u^{12} - u^{11} - 6u^{10} - 2u^9 - 12u^8 - 3u^7 - 16u^6 - u^5 - 17u^4 + u^3 - 9u^2 + b + u - 2, \\ & -u^{13} - 2u^{12} - 3u^{11} - 4u^{10} - 5u^9 - 8u^8 - 6u^7 - 8u^6 - 4u^5 - 9u^4 - 4u^2 + a + u - 3, \\ & u^{14} + u^{13} + 4u^{12} + 3u^{11} + 9u^{10} + 6u^9 + 14u^8 + 7u^7 + 16u^6 + 6u^5 + 12u^4 + 3u^3 + 5u^2 + u + 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 91 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. $\boldsymbol{I_1^u = \langle 1.12 \times 10^{100} u^{76} + 2.64 \times 10^{100} u^{75} + \cdots + 6.74 \times 10^{100} b - 1.23 \times 10^{101},\ 1.72 \times 10^{101} u^{76} + 1.13 \times 10^{100} u^{75} + \cdots + 6.74 \times 10^{100} a + 2.54 \times 10^{102},\ u^{77} + 17 u^{75} + \cdots + 27u - 19 \rangle}$

(i) Arc colorings

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

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

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

$$a_1 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -2.55207u^{76} - 0.168159u^{75} + \cdots + 78.3494u - 37.7215 \\ -0.166022u^{76} - 0.392633u^{75} + \cdots - 4.69316u + 1.81941 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.359151u^{76} - 1.87506u^{75} + \cdots - 18.9968u + 37.8121 \\ 0.319682u^{76} + 0.0483555u^{75} + \cdots - 4.22811u + 2.05086 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.846949u^{76} + 0.811198u^{75} + \cdots - 10.8950u - 3.13453 \\ -0.402179u^{76} - 0.132584u^{75} + \cdots + 8.64112u + 0.469899 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -2.38605u^{76} + 0.224474u^{75} + \cdots + 83.0425u - 39.5409 \\ -0.166022u^{76} - 0.392633u^{75} + \cdots - 4.69316u + 1.81941 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -3.00143u^{76} - 0.717479u^{75} + \cdots + 89.2717u - 30.5770 \\ -0.417577u^{76} - 0.798995u^{75} + \cdots - 0.00895837u + 7.52176 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.52003u^{76} + 1.34012u^{75} + \cdots - 26.0059u + 0.0397533 \\ -0.312532u^{76} + 0.595403u^{75} + \cdots + 23.5262u - 15.6637 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.52003u^{76} + 1.34012u^{75} + \cdots - 26.0059u + 0.0397533 \\ -0.312532u^{76} + 0.595403u^{75} + \cdots + 23.5262u - 15.6637 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 2.91959u^{76} + 2.19877u^{75} + \cdots - 80.9270u - 2.56214$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{77} + 17u^{75} + \cdots + 27u - 19$
c_2	$u^{77} + 34u^{76} + \cdots - 5009u - 361$
c_3	$u^{77} + 7u^{76} + \cdots + 18u + 1$
c_4, c_8, c_9	$u^{77} - u^{76} + \cdots + 6u - 19$
c_6, c_{10}	$u^{77} + u^{76} + \cdots + 420u - 25$
c_7	$u^{77} - u^{76} + \cdots + 138u - 323$
c_{11}	$u^{77} + 5u^{76} + \cdots - 282u - 31$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{77} + 34y^{76} + \cdots - 5009y - 361$
c_2	$y^{77} + 26y^{76} + \cdots + 3771587y - 130321$
c_3	$y^{77} - y^{76} + \cdots - 142y - 1$
c_4, c_8, c_9	$y^{77} + 75y^{76} + \cdots - 3156y - 361$
c_6, c_{10}	$y^{77} - 49y^{76} + \cdots + 40050y - 625$
c_7	$y^{77} + 21y^{76} + \cdots - 3986156y - 104329$
c_{11}	$y^{77} - 3y^{76} + \cdots + 22112y - 961$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.992506+0.102823I$ $a=\ \ 0.134683+1.153340I$ $b=\ \ 0.163116+1.299630I$	$0.401797+0.602420I$	0
$u=-0.992506-0.102823I$ $a=\ \ 0.134683-1.153340I$ $b=\ \ 0.163116-1.299630I$	$0.401797-0.602420I$	0
$u=-0.179722+0.986918I$ $a=\ \ 0.207589+0.902053I$ $b=\ \ 0.369165+0.668249I$	$-3.15064+0.31796I$	0
$u=-0.179722-0.986918I$ $a=\ \ 0.207589-0.902053I$ $b=\ \ 0.369165-0.668249I$	$-3.15064-0.31796I$	0
$u=-0.843840+0.510397I$ $a=-0.259951-0.265595I$ $b=\ \ 0.864185+0.337395I$	$4.98057+6.15682I$	0
$u=-0.843840-0.510397I$ $a=-0.259951+0.265595I$ $b=\ \ 0.864185-0.337395I$	$4.98057-6.15682I$	0
$u=-0.399420+0.898642I$ $a=-1.06991-2.30707I$ $b=-0.07605-1.75821I$	$-7.58964-1.63836I$	0
$u=-0.399420-0.898642I$ $a=-1.06991+2.30707I$ $b=-0.07605+1.75821I$	$-7.58964+1.63836I$	0
$u=\ \ 0.429893+0.940961I$ $a=\ \ 2.79308-2.27591I$ $b=-0.023408-1.309520I$	$-2.33844-1.16139I$	0
$u=\ \ 0.429893-0.940961I$ $a=\ \ 2.79308+2.27591I$ $b=-0.023408+1.309520I$	$-2.33844+1.16139I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.830555 + 0.488900I$ $a = 0.442225 + 0.331567I$ $b = -0.16770 + 1.41359I$	$-4.74914 - 4.01083I$	0
$u = 0.830555 - 0.488900I$ $a = 0.442225 - 0.331567I$ $b = -0.16770 - 1.41359I$	$-4.74914 + 4.01083I$	0
$u = -0.630106 + 0.842299I$ $a = 0.432588 - 0.361290I$ $b = -0.622284 - 0.227967I$	$3.97239 - 0.95647I$	0
$u = -0.630106 - 0.842299I$ $a = 0.432588 + 0.361290I$ $b = -0.622284 + 0.227967I$	$3.97239 + 0.95647I$	0
$u = 0.303925 + 0.883906I$ $a = 0.690866 - 1.050320I$ $b = -0.870665 - 0.383585I$	$0.163595 - 0.350353I$	0
$u = 0.303925 - 0.883906I$ $a = 0.690866 + 1.050320I$ $b = -0.870665 + 0.383585I$	$0.163595 + 0.350353I$	0
$u = 0.934821 + 0.515588I$ $a = -0.0267477 - 0.1090470I$ $b = 0.527513 - 0.109138I$	$4.74218 + 1.96042I$	0
$u = 0.934821 - 0.515588I$ $a = -0.0267477 + 0.1090470I$ $b = 0.527513 + 0.109138I$	$4.74218 - 1.96042I$	0
$u = -0.659420 + 0.849922I$ $a = -0.48497 - 1.38896I$ $b = 0.432084 - 0.317596I$	$3.96385 - 4.06799I$	0
$u = -0.659420 - 0.849922I$ $a = -0.48497 + 1.38896I$ $b = 0.432084 + 0.317596I$	$3.96385 + 4.06799I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.989911 + 0.422296I$ $a = -0.202342 - 0.690980I$ $b = 0.32715 - 1.45728I$	$-0.76965 - 10.43430I$	0
$u = 0.989911 - 0.422296I$ $a = -0.202342 + 0.690980I$ $b = 0.32715 + 1.45728I$	$-0.76965 + 10.43430I$	0
$u = 0.509665 + 0.956039I$ $a = -1.85319 + 2.97020I$ $b = 0.17312 + 1.44644I$	$-1.80643 + 6.36048I$	0
$u = 0.509665 - 0.956039I$ $a = -1.85319 - 2.97020I$ $b = 0.17312 - 1.44644I$	$-1.80643 - 6.36048I$	0
$u = 0.435143 + 1.013860I$ $a = 0.085209 + 0.808618I$ $b = 0.861923 - 0.018150I$	$-0.79562 + 3.15505I$	0
$u = 0.435143 - 1.013860I$ $a = 0.085209 - 0.808618I$ $b = 0.861923 + 0.018150I$	$-0.79562 - 3.15505I$	0
$u = 0.629756 + 0.623375I$ $a = -1.03801 + 1.27838I$ $b = 0.698651 + 0.940608I$	$3.26953 - 0.81616I$	$8.32679 + 0.51400I$
$u = 0.629756 - 0.623375I$ $a = -1.03801 - 1.27838I$ $b = 0.698651 - 0.940608I$	$3.26953 + 0.81616I$	$8.32679 - 0.51400I$
$u = 0.478152 + 1.028480I$ $a = 0.048348 + 0.408631I$ $b = 0.620681 - 0.234635I$	$-0.64979 + 3.08848I$	0
$u = 0.478152 - 1.028480I$ $a = 0.048348 - 0.408631I$ $b = 0.620681 + 0.234635I$	$-0.64979 - 3.08848I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.474736 + 0.723995I$ $a = 0.76434 + 1.28908I$ $b = -0.256829 + 1.358870I$	$-1.02736 - 2.28684I$	$7.55737 - 1.92002I$
$u = 0.474736 - 0.723995I$ $a = 0.76434 - 1.28908I$ $b = -0.256829 - 1.358870I$	$-1.02736 + 2.28684I$	$7.55737 + 1.92002I$
$u = 0.095485 + 1.136580I$ $a = -0.502266 - 0.275607I$ $b = -0.410820 - 0.500865I$	$-1.23115 + 4.61547I$	0
$u = 0.095485 - 1.136580I$ $a = -0.502266 + 0.275607I$ $b = -0.410820 + 0.500865I$	$-1.23115 - 4.61547I$	0
$u = -0.545977 + 1.014860I$ $a = 1.60168 + 1.42484I$ $b = -0.25443 + 1.49778I$	$-6.23573 - 3.59828I$	0
$u = -0.545977 - 1.014860I$ $a = 1.60168 - 1.42484I$ $b = -0.25443 - 1.49778I$	$-6.23573 + 3.59828I$	0
$u = 0.582278 + 0.996325I$ $a = -0.563794 + 0.223191I$ $b = -0.890522 + 0.862779I$	$2.13289 + 5.59350I$	0
$u = 0.582278 - 0.996325I$ $a = -0.563794 - 0.223191I$ $b = -0.890522 - 0.862779I$	$2.13289 - 5.59350I$	0
$u = -0.670483 + 0.483183I$ $a = 0.434095 + 0.052172I$ $b = 0.091326 + 1.398830I$	$-4.69637 - 1.06019I$	$1.77167 + 3.37054I$
$u = -0.670483 - 0.483183I$ $a = 0.434095 - 0.052172I$ $b = 0.091326 - 1.398830I$	$-4.69637 + 1.06019I$	$1.77167 - 3.37054I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.286414 + 0.770897I$ $a = -0.529133 + 0.340802I$ $b = -0.131537 - 1.082870I$	$-1.66948 + 4.41582I$	$1.89095 - 7.51021I$
$u = 0.286414 - 0.770897I$ $a = -0.529133 - 0.340802I$ $b = -0.131537 + 1.082870I$	$-1.66948 - 4.41582I$	$1.89095 + 7.51021I$
$u = 0.076124 + 1.176170I$ $a = -0.13232 - 2.63415I$ $b = 0.08777 - 1.53585I$	$-10.45230 - 1.94264I$	0
$u = 0.076124 - 1.176170I$ $a = -0.13232 + 2.63415I$ $b = 0.08777 + 1.53585I$	$-10.45230 + 1.94264I$	0
$u = -0.574941 + 1.029820I$ $a = -0.865274 - 0.836985I$ $b = 0.601944 - 0.367094I$	$-0.73372 - 6.46640I$	0
$u = -0.574941 - 1.029820I$ $a = -0.865274 + 0.836985I$ $b = 0.601944 + 0.367094I$	$-0.73372 + 6.46640I$	0
$u = -0.331830 + 1.139990I$ $a = 0.81647 + 2.00240I$ $b = 0.22724 + 1.48431I$	$-6.59087 + 0.43258I$	0
$u = -0.331830 - 1.139990I$ $a = 0.81647 - 2.00240I$ $b = 0.22724 - 1.48431I$	$-6.59087 - 0.43258I$	0
$u = 0.799696 + 0.881266I$ $a = 0.800094 + 0.035250I$ $b = -0.025687 - 1.228280I$	$1.67283 + 2.99269I$	0
$u = 0.799696 - 0.881266I$ $a = 0.800094 - 0.035250I$ $b = -0.025687 + 1.228280I$	$1.67283 - 2.99269I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.503300+1.113020I$ $a=-1.46906-1.97320I$ $b=\ \ 0.43026-1.43315I$	$-5.46055-8.15782I$	0
$u=-0.503300-1.113020I$ $a=-1.46906+1.97320I$ $b=\ \ 0.43026+1.43315I$	$-5.46055+8.15782I$	0
$u=-0.588221+0.492828I$ $a=\ \ 1.010850+0.219431I$ $b=-0.413424-0.322512I$	$0.78679+1.78171I$	$6.93161-4.77332I$
$u=-0.588221-0.492828I$ $a=\ \ 1.010850-0.219431I$ $b=-0.413424+0.322512I$	$0.78679-1.78171I$	$6.93161+4.77332I$
$u=-0.654044+1.088480I$ $a=\ \ 0.275617+1.042120I$ $b=-0.951503+0.450492I$	$3.22901-11.73080I$	0
$u=-0.654044-1.088480I$ $a=\ \ 0.275617-1.042120I$ $b=-0.951503-0.450492I$	$3.22901+11.73080I$	0
$u=\ \ 0.651187+1.101690I$ $a=-1.82390+1.46274I$ $b=\ \ 0.23240+1.44840I$	$-6.58950+9.55660I$	0
$u=\ \ 0.651187-1.101690I$ $a=-1.82390-1.46274I$ $b=\ \ 0.23240-1.44840I$	$-6.58950-9.55660I$	0
$u=\ \ 0.734204+1.069320I$ $a=\ \ 0.264381-0.642265I$ $b=-0.461381-0.424979I$	$3.10184+4.12640I$	0
$u=\ \ 0.734204-1.069320I$ $a=\ \ 0.264381+0.642265I$ $b=-0.461381+0.424979I$	$3.10184-4.12640I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.463474 + 0.499512I$ $a = 1.005840 - 0.131908I$ $b = -0.391996 - 0.381119I$	$0.906262 + 0.882340I$	$7.93772 - 5.58390I$
$u = 0.463474 - 0.499512I$ $a = 1.005840 + 0.131908I$ $b = -0.391996 + 0.381119I$	$0.906262 - 0.882340I$	$7.93772 + 5.58390I$
$u = -0.655837 + 0.159805I$ $a = 0.540689 - 0.181974I$ $b = -0.322778 - 1.352790I$	$-2.86462 + 3.78073I$	$3.56597 - 3.81882I$
$u = -0.655837 - 0.159805I$ $a = 0.540689 + 0.181974I$ $b = -0.322778 + 1.352790I$	$-2.86462 - 3.78073I$	$3.56597 + 3.81882I$
$u = 0.674571 + 1.175150I$ $a = 1.41651 - 1.82923I$ $b = -0.35663 - 1.51897I$	$-3.0941 + 16.4594I$	0
$u = 0.674571 - 1.175150I$ $a = 1.41651 + 1.82923I$ $b = -0.35663 + 1.51897I$	$-3.0941 - 16.4594I$	0
$u = -0.534948 + 1.254540I$ $a = -1.24467 - 1.97836I$ $b = 0.040134 - 1.286720I$	$-3.56674 - 4.58685I$	0
$u = -0.534948 - 1.254540I$ $a = -1.24467 + 1.97836I$ $b = 0.040134 + 1.286720I$	$-3.56674 + 4.58685I$	0
$u = 0.040521 + 1.392890I$ $a = -0.13926 + 2.26692I$ $b = -0.18547 + 1.46609I$	$-7.50502 - 7.02191I$	0
$u = 0.040521 - 1.392890I$ $a = -0.13926 - 2.26692I$ $b = -0.18547 - 1.46609I$	$-7.50502 + 7.02191I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.12911+0.85261I$ $a=-0.402883-0.940773I$ $b=\ \ 0.075532-1.274920I$	$1.39277-3.88492I$	0
$u=-1.12911-0.85261I$ $a=-0.402883+0.940773I$ $b=\ \ 0.075532+1.274920I$	$1.39277+3.88492I$	0
$u=-0.071474+0.574838I$ $a=\ \ 2.49648+0.24444I$ $b=\ \ 0.025774-0.381419I$	$0.98061+1.39590I$	$4.58324-5.64184I$
$u=-0.071474-0.574838I$ $a=\ \ 2.49648-0.24444I$ $b=\ \ 0.025774+0.381419I$	$0.98061-1.39590I$	$4.58324+5.64184I$
$u=-0.65986+1.27360I$ $a=\ \ 0.92752+2.00650I$ $b=-0.18093+1.46647I$	$-3.02971-6.56618I$	0
$u=-0.65986-1.27360I$ $a=\ \ 0.92752-2.00650I$ $b=-0.18093-1.46647I$	$-3.02971+6.56618I$	0
$u=\ \ 0.409048$ $a=\ \ 1.15285$ $b=-0.711871$	1.45831	6.75650

II.

$\boldsymbol{I_2^u = \langle -2u^{12}-u^{11}+\cdots+b-2,\ -u^{13}-2u^{12}+\cdots+a-3,\ u^{14}+u^{13}+\cdots+u+1\rangle}$

(i) Arc colorings

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

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

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

$$a_1 = \begin{pmatrix} -u \\ u^3+u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^3 \\ u^5+u^3+u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} u^{13}+2u^{12}+\cdots-u+3 \\ 2u^{12}+u^{11}+\cdots-u+2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} u^{13}+3u^{12}+\cdots-u+3 \\ -u^{12}-u^{11}-3u^{10}-2u^9-6u^8-4u^7-8u^6-3u^5-8u^4-3u^3-4u^2-2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -3u^{12}-3u^{11}+\cdots-4u-4 \\ u^{13}-u^{12}+\cdots+u-2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} u^{13}+2u^{11}-2u^{10}+3u^9-4u^8+3u^7-8u^6+3u^5-8u^4+u^3-5u^2+1 \\ 2u^{12}+u^{11}+\cdots-u+2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u^{13}+u^{12}+\cdots-4u^2+1 \\ 2u^{12}+u^{11}+\cdots-u+2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{13}-2u^{12}+\cdots+5u-2 \\ u^{13}+3u^{11}+6u^9+8u^7-u^6+9u^5-2u^4+6u^3+u+1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u^{13}-2u^{12}+\cdots+5u-2 \\ u^{13}+3u^{11}+6u^9+8u^7-u^6+9u^5-2u^4+6u^3+u+1 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes

$= -u^{13}-3u^{12}-7u^{11}-7u^{10}-15u^9-13u^8-27u^7-15u^6-29u^5-11u^4-29u^3-2u^2-11u+4$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{14} + 7y^{13} + \cdots + 9y + 1$
c_2	$y^{14} + 7y^{13} + \cdots + 5y + 1$
c_3	$y^{14} - 4y^{12} + \cdots - 2y + 1$
c_4, c_8, c_9	$y^{14} + 16y^{13} + \cdots + 8y + 1$
c_6, c_{10}	$y^{14} - 12y^{13} + \cdots - 14y + 1$
c_7	$y^{14} + 6y^{13} + \cdots + 8y + 1$
c_{11}	$y^{14} + 2y^{13} + \cdots + 2y^2 + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.263802+0.940835I$ $a=\ 1.19274+2.28120I$ $b=\ 0.04502+1.68553I$	$-8.10462-1.08865I$	$-3.05079-1.27103I$
$u=-0.263802-0.940835I$ $a=\ 1.19274-2.28120I$ $b=\ 0.04502-1.68553I$	$-8.10462+1.08865I$	$-3.05079+1.27103I$
$u=\ 0.410511+1.042370I$ $a=\ 0.131453+0.695630I$ $b=\ 0.588176-0.305776I$	$-0.04552+3.64299I$	$9.10899-6.17803I$
$u=\ 0.410511-1.042370I$ $a=\ 0.131453-0.695630I$ $b=\ 0.588176+0.305776I$	$-0.04552-3.64299I$	$9.10899+6.17803I$
$u=\ 0.760930+0.850713I$ $a=-0.428317+0.669340I$ $b=-0.100644+0.531390I$	$3.68757+2.89359I$	$10.43723-2.39081I$
$u=\ 0.760930-0.850713I$ $a=-0.428317-0.669340I$ $b=-0.100644-0.531390I$	$3.68757-2.89359I$	$10.43723+2.39081I$
$u=\ 0.312796+0.732458I$ $a=\ 1.95777-1.12081I$ $b=-0.492123-0.518251I$	$1.193900-0.561188I$	$7.81743-1.40333I$
$u=\ 0.312796-0.732458I$ $a=\ 1.95777+1.12081I$ $b=-0.492123+0.518251I$	$1.193900+0.561188I$	$7.81743+1.40333I$
$u=-0.942798+0.813476I$ $a=\ 0.324386+0.502415I$ $b=-0.045526+1.274860I$	$0.85500-3.43645I$	$1.10715+2.59332I$
$u=-0.942798-0.813476I$ $a=\ 0.324386-0.502415I$ $b=-0.045526-1.274860I$	$0.85500+3.43645I$	$1.10715-2.59332I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.495691+1.193760I$ $a=-1.17726-2.37223I$ $b=\ \ 0.19941-1.40134I$	$-4.20321-6.46120I$	$0.62933+6.25768I$
$u=-0.495691-1.193760I$ $a=-1.17726+2.37223I$ $b=\ \ 0.19941+1.40134I$	$-4.20321+6.46120I$	$0.62933-6.25768I$
$u=-0.281944+0.557057I$ $a=\ \ 1.99922-0.82002I$ $b=-0.194314-1.267040I$	$-1.60779+3.00668I$	$2.45066-4.48374I$
$u=-0.281944-0.557057I$ $a=\ \ 1.99922+0.82002I$ $b=-0.194314+1.267040I$	$-1.60779-3.00668I$	$2.45066+4.48374I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{14}-u^{13}+\cdots-u+1)(u^{77}+17u^{75}+\cdots+27u-19)$
c_2	$(u^{14}+7u^{13}+\cdots+9u+1)(u^{77}+34u^{76}+\cdots-5009u-361)$
c_3	$(u^{14}+2u^{11}-2u^{10}+2u^8-6u^7+4u^6+2u^5-4u^4+2u^3+u^2-2u+1)$ $\cdot(u^{77}+7u^{76}+\cdots+18u+1)$
c_4	$(u^{14}+8u^{12}+\cdots+4u^2+1)(u^{77}-u^{76}+\cdots+6u-19)$
c_5	$(u^{14}+u^{13}+\cdots+u+1)(u^{77}+17u^{75}+\cdots+27u-19)$
c_6	$(u^{14}-2u^{13}+\cdots-2u+1)(u^{77}+u^{76}+\cdots+420u-25)$
c_7	$(u^{14}+3u^{12}+\cdots+4u^2+1)(u^{77}-u^{76}+\cdots+138u-323)$
c_8, c_9	$(u^{14}+8u^{12}+\cdots+4u^2+1)(u^{77}-u^{76}+\cdots+6u-19)$
c_{10}	$(u^{14}+2u^{13}+\cdots+2u+1)(u^{77}+u^{76}+\cdots+420u-25)$
c_{11}	$(u^{14}+u^{12}-3u^{11}-2u^{10}-2u^9+u^8+3u^7+5u^6+u^5+u^4-2u^3+1)$ $\cdot(u^{77}+5u^{76}+\cdots-282u-31)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{14}+7y^{13}+\cdots+9y+1)(y^{77}+34y^{76}+\cdots-5009y-361)$
c_2	$(y^{14}+7y^{13}+\cdots+5y+1)(y^{77}+26y^{76}+\cdots+3771587y-130321)$
c_3	$(y^{14}-4y^{12}+\cdots-2y+1)(y^{77}-y^{76}+\cdots-142y-1)$
c_4, c_8, c_9	$(y^{14}+16y^{13}+\cdots+8y+1)(y^{77}+75y^{76}+\cdots-3156y-361)$
c_6, c_{10}	$(y^{14}-12y^{13}+\cdots-14y+1)(y^{77}-49y^{76}+\cdots+40050y-625)$
c_7	$(y^{14}+6y^{13}+\cdots+8y+1)(y^{77}+21y^{76}+\cdots-3986156y-104329)$
c_{11}	$(y^{14}+2y^{13}+\cdots+2y^2+1)(y^{77}-3y^{76}+\cdots+22112y-961)$