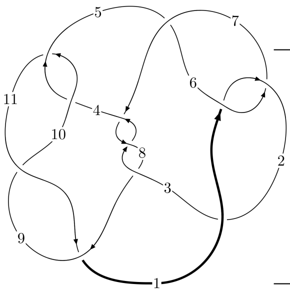
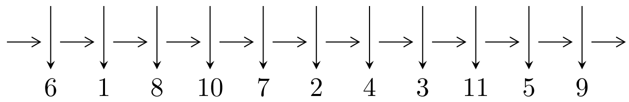
$11a_{200}$ $(K11a_{200})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u &= \langle u^2+b,\ -u^{13}+u^{11}+u^{10}-4u^9+3u^7+4u^6-4u^5-2u^4+3u^3+3u^2+2a+u-3,\\
&\quad\ u^{14}-2u^{12}+6u^{10}-u^9-8u^8+u^7+10u^6-2u^5-9u^4+u^3+4u^2+u-1\rangle\\
I_2^u &= \langle 11044796022984u^{35}+15849610659410u^{34}+\cdots+5213417579383b-19244867589607,\\
&\quad\ -20597520331605u^{35}-27230487651401u^{34}+\cdots+5213417579383a+39323690068543,\\
&\quad\ u^{36}+u^{35}+\cdots-2u+1\rangle\\
I_3^u &= \langle u^2+b,\ -u^2+a-u+1,\ u^4-u^2+1\rangle\\
I_4^u &= \langle -u^2+b+1,\ a-u-1,\ u^4-u^2+1\rangle
\end{aligned}$$

* 4 irreducible components of $\dim_{\mathbb{C}}=0$, with total 58 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. $I_1^u = \langle u^2 + b,\ -u^{13} + u^{11} + \cdots + 2a - 3,\ u^{14} - 2u^{12} + \cdots + u - 1\rangle$

(i) Arc colorings

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

(ii) Obstruction class $= -1$

(iii) Cusp Shapes
$= u^{13} + u^{11} + u^{10} + 2u^9 - 4u^8 + 7u^7 + 4u^6 - 4u^5 - 10u^4 + 11u^3 + 5u^2 - 9u - 13$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_6 c_{10}	$y^{14} - 4y^{13} + \cdots - 9y + 1$
c_2, c_5, c_9 c_{11}	$y^{14} + 16y^{13} + \cdots - 17y + 1$
c_3, c_7, c_8	$y^{14} + 13y^{13} + \cdots - 136y + 16$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.950366$ $a=-0.787840$ $b=-0.903195$	-4.35310	-20.7960
$u=\ \ 0.934140+0.165940I$ $a=-0.833929-0.848131I$ $b=-0.845081-0.310022I$	$-0.76895-3.05854I$	$-15.2345+4.4220I$
$u=\ \ 0.934140-0.165940I$ $a=-0.833929+0.848131I$ $b=-0.845081+0.310022I$	$-0.76895+3.05854I$	$-15.2345-4.4220I$
$u=-0.861511+0.818074I$ $a=-0.43826-2.03212I$ $b=-0.072957+1.409560I$	$6.31411+3.07801I$	$-6.07433-2.66063I$
$u=-0.861511-0.818074I$ $a=-0.43826+2.03212I$ $b=-0.072957-1.409560I$	$6.31411-3.07801I$	$-6.07433+2.66063I$
$u=\ \ 0.771614+0.940827I$ $a=-0.178207+1.387930I$ $b=\ \ 0.28977-1.45191I$	$14.2923+0.8767I$	$-3.65848+1.44035I$
$u=\ \ 0.771614-0.940827I$ $a=-0.178207-1.387930I$ $b=\ \ 0.28977+1.45191I$	$14.2923-0.8767I$	$-3.65848-1.44035I$
$u=\ \ 0.965155+0.787055I$ $a=-1.13614+2.04636I$ $b=-0.31207-1.51926I$	$5.64578-9.04247I$	$-7.75570+7.54934I$
$u=\ \ 0.965155-0.787055I$ $a=-1.13614-2.04636I$ $b=-0.31207+1.51926I$	$5.64578+9.04247I$	$-7.75570-7.54934I$
$u=-0.499772+0.464713I$ $a=\ \ 1.46491-0.18431I$ $b=-0.033814+0.464501I$	$2.42034+2.01219I$	$-5.03531-3.18410I$

Solutions to I^u_1	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.499772 - 0.464713I$ $a = 1.46491 + 0.18431I$ $b = -0.033814 - 0.464501I$	$2.42034 - 2.01219I$	$-5.03531 + 3.18410I$
$u = -1.055500 + 0.798468I$ $a = -1.43912 - 1.62917I$ $b = -0.47652 + 1.68556I$	$12.4304 + 13.7591I$	$-6.11753 - 7.81595I$
$u = -1.055500 - 0.798468I$ $a = -1.43912 + 1.62917I$ $b = -0.47652 - 1.68556I$	$12.4304 - 13.7591I$	$-6.11753 + 7.81595I$
$u = 0.442106$ $a = 0.909335$ $b = -0.195458$	-0.647887	-15.4520

II.

$\boldsymbol{I_2^u = \langle 1.10\times 10^{13}u^{35}+1.58\times 10^{13}u^{34}+\cdots+5.21\times 10^{12}b-1.92\times 10^{13},\ -2.06\times 10^{13}u^{35}-2.72\times 10^{13}u^{34}+\cdots+5.21\times 10^{12}a+3.93\times 10^{13},\ u^{36}+u^{35}+\cdots-2u+1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_6 = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_2 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_3 = \begin{pmatrix}-u^2+1\\u^2\end{pmatrix}$$
$$a_7 = \begin{pmatrix}-u\\-u^3+u\end{pmatrix}$$
$$a_5 = \begin{pmatrix}u^3\\u^5-u^3+u\end{pmatrix}$$
$$a_9 = \begin{pmatrix}3.95087u^{35}+5.22315u^{34}+\cdots+0.910129u-7.54279\\-2.11853u^{35}-3.04016u^{34}+\cdots-2.06187u+3.69141\end{pmatrix}$$
$$a_8 = \begin{pmatrix}2.27927u^{35}+2.86643u^{34}+\cdots-0.0438616u-4.50374\\-2.47612u^{35}-3.71564u^{34}+\cdots-2.03874u+4.69444\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}-2.30128u^{35}-3.92404u^{34}+\cdots+1.16386u+3.30524\\-2.34203u^{35}-3.45720u^{34}+\cdots-1.18510u+5.47128\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}-1.79396u^{35}-3.71712u^{34}+\cdots+0.968286u+3.13328\\-1.97576u^{35}-2.57126u^{34}+\cdots-0.845464u+4.81490\end{pmatrix}$$
$$a_4 = \begin{pmatrix}4.69444u^{35}+7.17055u^{34}+\cdots-0.960342u-7.35013\\0.587159u^{35}+0.875255u^{34}+\cdots+0.0548089u-2.27927\end{pmatrix}$$
$$a_4 = \begin{pmatrix}4.69444u^{35}+7.17055u^{34}+\cdots-0.960342u-7.35013\\0.587159u^{35}+0.875255u^{34}+\cdots+0.0548089u-2.27927\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes
$= \frac{23301194605224}{5213417579383}u^{35} + \frac{35979605140824}{5213417579383}u^{34} + \cdots + \frac{21746030582642}{5213417579383}u - \frac{88939694002132}{5213417579383}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4, c_6 c_{10}	$u^{36} - u^{35} + \cdots + 2u + 1$
c_2, c_5, c_9 c_{11}	$u^{36} + 11u^{35} + \cdots + 2u + 1$
c_3, c_7, c_8	$(u^{18} + 2u^{17} + \cdots + 4u + 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_6 c_{10}	$y^{36} - 11y^{35} + \cdots - 2y + 1$
c_2, c_5, c_9 c_{11}	$y^{36} + 29y^{35} + \cdots - 86y + 1$
c_3, c_7, c_8	$(y^{18} + 20y^{17} + \cdots - 6y + 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.812169 + 0.607179I$ $a = 0.671292 + 0.171361I$ $b = 0.144113 - 0.052398I$	$1.69238 + 2.34050I$	$-6.11304 - 4.51747I$
$u = -0.812169 - 0.607179I$ $a = 0.671292 - 0.171361I$ $b = 0.144113 + 0.052398I$	$1.69238 - 2.34050I$	$-6.11304 + 4.51747I$
$u = -0.946964 + 0.251366I$ $a = -1.156670 - 0.366820I$ $b = -0.466192 + 1.168730I$	$-0.82103 + 4.83091I$	$-14.6707 - 7.5484I$
$u = -0.946964 - 0.251366I$ $a = -1.156670 + 0.366820I$ $b = -0.466192 - 1.168730I$	$-0.82103 - 4.83091I$	$-14.6707 + 7.5484I$
$u = 0.730851 + 0.539733I$ $a = 0.924619 - 0.162335I$ $b = -0.543811 + 0.535375I$	$-0.218413 + 0.059150I$	$-13.30450 - 1.20964I$
$u = 0.730851 - 0.539733I$ $a = 0.924619 + 0.162335I$ $b = -0.543811 - 0.535375I$	$-0.218413 - 0.059150I$	$-13.30450 + 1.20964I$
$u = -0.942145 + 0.554752I$ $a = 0.794075 - 0.773298I$ $b = -0.251878 + 0.053017I$	$1.36390 + 2.08554I$	$-9.56168 - 2.20642I$
$u = -0.942145 - 0.554752I$ $a = 0.794075 + 0.773298I$ $b = -0.251878 - 0.053017I$	$1.36390 - 2.08554I$	$-9.56168 + 2.20642I$
$u = -0.040087 + 0.897653I$ $a = 0.20998 - 1.45458I$ $b = -0.11524 + 1.50569I$	$9.19677 + 3.10798I$	$-3.50971 - 2.64457I$
$u = -0.040087 - 0.897653I$ $a = 0.20998 + 1.45458I$ $b = -0.11524 - 1.50569I$	$9.19677 - 3.10798I$	$-3.50971 + 2.64457I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.928565 + 0.629318I$ $a = -0.112955 + 1.243650I$ $b = -0.833557 - 0.476070I$	$-0.82103 - 4.83091I$	$-14.6707 + 7.5484I$
$u = 0.928565 - 0.629318I$ $a = -0.112955 - 1.243650I$ $b = -0.833557 + 0.476070I$	$-0.82103 + 4.83091I$	$-14.6707 - 7.5484I$
$u = 0.808373 + 0.331144I$ $a = 1.193410 - 0.008565I$ $b = -0.242832 + 0.788929I$	$-0.218413 - 0.059150I$	$-13.30450 + 1.20964I$
$u = 0.808373 - 0.331144I$ $a = 1.193410 + 0.008565I$ $b = -0.242832 - 0.788929I$	$-0.218413 + 0.059150I$	$-13.30450 - 1.20964I$
$u = -0.823976 + 0.805806I$ $a = 0.742818 - 0.074215I$ $b = -1.25591 - 0.81116I$	$5.35610 - 1.19422I$	$-7.28872 + 0.77166I$
$u = -0.823976 - 0.805806I$ $a = 0.742818 + 0.074215I$ $b = -1.25591 + 0.81116I$	$5.35610 + 1.19422I$	$-7.28872 - 0.77166I$
$u = 0.812050 + 0.836206I$ $a = 0.83079 - 1.99521I$ $b = -0.21419 + 1.47787I$	$6.12069 + 2.97589I$	$-6.53141 - 2.59059I$
$u = 0.812050 - 0.836206I$ $a = 0.83079 + 1.99521I$ $b = -0.21419 - 1.47787I$	$6.12069 - 2.97589I$	$-6.53141 + 2.59059I$
$u = -0.729822 + 0.942917I$ $a = 0.48397 + 1.64428I$ $b = -0.39833 - 1.70046I$	$13.4573 - 7.3548I$	$-4.66879 + 3.22304I$
$u = -0.729822 - 0.942917I$ $a = 0.48397 - 1.64428I$ $b = -0.39833 + 1.70046I$	$13.4573 + 7.3548I$	$-4.66879 - 3.22304I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.185250 + 0.286307I$ $a = -0.870802 - 0.153065I$ $b = -0.29933 - 1.46346I$	$4.97567 - 7.12729I$	$-8.35142 + 6.02297I$
$u = 1.185250 - 0.286307I$ $a = -0.870802 + 0.153065I$ $b = -0.29933 + 1.46346I$	$4.97567 + 7.12729I$	$-8.35142 - 6.02297I$
$u = -0.923985 + 0.799724I$ $a = 1.36056 + 1.78580I$ $b = 0.039816 - 1.358080I$	$6.12069 + 2.97589I$	$-6.53141 - 2.59059I$
$u = -0.923985 - 0.799724I$ $a = 1.36056 - 1.78580I$ $b = 0.039816 + 1.358080I$	$6.12069 - 2.97589I$	$-6.53141 + 2.59059I$
$u = -0.946857 + 0.772796I$ $a = -0.283619 - 1.357530I$ $b = -1.32284 + 0.67869I$	$4.97567 + 7.12729I$	$-8.35142 - 6.02297I$
$u = -0.946857 - 0.772796I$ $a = -0.283619 + 1.357530I$ $b = -1.32284 - 0.67869I$	$4.97567 - 7.12729I$	$-8.35142 + 6.02297I$
$u = -1.172820 + 0.345817I$ $a = 1.063490 - 0.229177I$ $b = -0.029612 - 1.327930I$	$5.35610 + 1.19422I$	$-7.28872 - 0.77166I$
$u = -1.172820 - 0.345817I$ $a = 1.063490 + 0.229177I$ $b = -0.029612 + 1.327930I$	$5.35610 - 1.19422I$	$-7.28872 + 0.77166I$
$u = 0.901479 + 0.835123I$ $a = 0.216921 - 0.412346I$ $b = 0.804174 - 0.071969I$	$9.19677 - 3.10798I$	$-3.50971 + 2.64457I$
$u = 0.901479 - 0.835123I$ $a = 0.216921 + 0.412346I$ $b = 0.804174 + 0.071969I$	$9.19677 + 3.10798I$	$-3.50971 - 2.64457I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.035570 + 0.821025I$ $a = 1.38875 - 1.34795I$ $b = 0.35645 + 1.37632I$	$13.4573 - 7.3548I$	$-4.66879 + 3.22304I$
$u = 1.035570 - 0.821025I$ $a = 1.38875 + 1.34795I$ $b = 0.35645 - 1.37632I$	$13.4573 + 7.3548I$	$-4.66879 - 3.22304I$
$u = 0.504616 + 0.052532I$ $a = -2.34048 + 1.62886I$ $b = -0.579887 - 1.045310I$	$1.36390 - 2.08554I$	$-9.56168 + 2.20642I$
$u = 0.504616 - 0.052532I$ $a = -2.34048 - 1.62886I$ $b = -0.579887 + 1.045310I$	$1.36390 + 2.08554I$	$-9.56168 - 2.20642I$
$u = -0.067934 + 0.385652I$ $a = 1.38386 + 2.45598I$ $b = -0.290953 - 0.986264I$	$1.69238 - 2.34050I$	$-6.11304 + 4.51747I$
$u = -0.067934 - 0.385652I$ $a = 1.38386 - 2.45598I$ $b = -0.290953 + 0.986264I$	$1.69238 + 2.34050I$	$-6.11304 - 4.51747I$

III. $\boldsymbol{I_3^u = \langle u^2 + b,\ -u^2 + a - u + 1,\ u^4 - u^2 + 1\rangle}$

(i) Arc colorings

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

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 8u^2 - 12$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.866025 + 0.500000I$ $a = 0.36603 + 1.36603I$ $b = -0.500000 - 0.866025I$	$1.64493 - 4.05977I$	$-8.00000 + 6.92820I$
$u = 0.866025 - 0.500000I$ $a = 0.36603 - 1.36603I$ $b = -0.500000 + 0.866025I$	$1.64493 + 4.05977I$	$-8.00000 - 6.92820I$
$u = -0.866025 + 0.500000I$ $a = -1.36603 - 0.36603I$ $b = -0.500000 + 0.866025I$	$1.64493 + 4.05977I$	$-8.00000 - 6.92820I$
$u = -0.866025 - 0.500000I$ $a = -1.36603 + 0.36603I$ $b = -0.500000 - 0.866025I$	$1.64493 - 4.05977I$	$-8.00000 + 6.92820I$

IV. $I_4^u = \langle -u^2 + b + 1,\ a - u - 1,\ u^4 - u^2 + 1 \rangle$

(i) Arc colorings

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

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= -8$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_4^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.866025 + 0.500000I$ $a = 1.86603 + 0.50000I$ $b = -0.500000 + 0.866025I$	1.64493	-8.00000
$u = 0.866025 - 0.500000I$ $a = 1.86603 - 0.50000I$ $b = -0.500000 - 0.866025I$	1.64493	-8.00000
$u = -0.866025 + 0.500000I$ $a = 0.133975 + 0.500000I$ $b = -0.500000 - 0.866025I$	1.64493	-8.00000
$u = -0.866025 - 0.500000I$ $a = 0.133975 - 0.500000I$ $b = -0.500000 + 0.866025I$	1.64493	-8.00000

V. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_4, c_6 c_{10}	$(u^4-u^2+1)^2$ $\cdot\,(u^{14}-2u^{12}+6u^{10}+u^9-8u^8-u^7+10u^6+2u^5-9u^4-u^3+4u^2-u-1)$ $\cdot\,(u^{36}-u^{35}+\cdots+2u+1)$
c_2, c_{11}	$((u^2+u+1)^4)(u^{14}+4u^{13}+\cdots+9u+1)(u^{36}+11u^{35}+\cdots+2u+1)$
c_3, c_7, c_8	$((u^2+1)^4)(u^{14}-5u^{13}+\cdots+8u-4)(u^{18}+2u^{17}+\cdots+4u+1)^2$
c_5, c_9	$((u^2-u+1)^4)(u^{14}+4u^{13}+\cdots+9u+1)(u^{36}+11u^{35}+\cdots+2u+1)$

VI. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_6 c_{10}	$((y^2 - y + 1)^4)(y^{14} - 4y^{13} + \cdots - 9y + 1)(y^{36} - 11y^{35} + \cdots - 2y + 1)$
c_2, c_5, c_9 c_{11}	$((y^2 + y + 1)^4)(y^{14} + 16y^{13} + \cdots - 17y + 1)$ $\cdot (y^{36} + 29y^{35} + \cdots - 86y + 1)$
c_3, c_7, c_8	$((y + 1)^8)(y^{14} + 13y^{13} + \cdots - 136y + 16)$ $\cdot (y^{18} + 20y^{17} + \cdots - 6y + 1)^2$