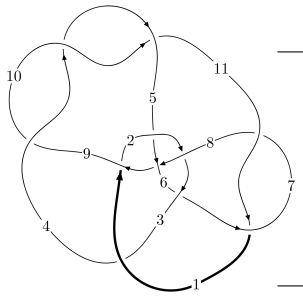
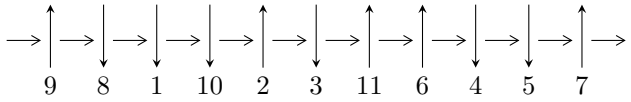
$11a_{268}$ $(K11a_{268})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle -2.49863 \times 10^{257} u^{88} + 5.28339 \times 10^{257} u^{87} + \cdots + 2.06470 \times 10^{257} b + 1.62471 \times 10^{259},$$
$$-1.46587 \times 10^{259} u^{88} + 5.63526 \times 10^{259} u^{87} + \cdots + 1.21817 \times 10^{259} a + 2.14864 \times 10^{261},$$
$$u^{89} - u^{88} + \cdots + 48u + 59 \rangle$$
$$I_2^u = \langle u^{18} - 2u^{17} + \cdots + b - 1,\ 2810u^{19} - 4920u^{18} + \cdots + 107a - 1193,\ u^{20} - 2u^{19} + \cdots + u - 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 109 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. $\boldsymbol{I_1^u = \langle -2.50 \times 10^{257} u^{88} + 5.28 \times 10^{257} u^{87} + \cdots + 2.06 \times 10^{257} b + 1.62 \times 10^{259},\ -1.47 \times 10^{259} u^{88} + 5.64 \times 10^{259} u^{87} + \cdots + 1.22 \times 10^{259} a + 2.15 \times 10^{261},\ u^{89} - u^{88} + \cdots + 48u + 59 \rangle}$

(i) Arc colorings

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1.20333u^{88} - 4.62599u^{87} + \cdots - 65.4798u - 176.382 \\ 1.21016u^{88} - 2.55892u^{87} + \cdots - 4.73499u - 78.6901 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.19352u^{88} - 2.15965u^{87} + \cdots + 34.4706u - 54.0216 \\ 1.20035u^{88} - 0.0925750u^{87} + \cdots + 95.2154u + 43.6703 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.866135u^{88} - 1.82355u^{87} + \cdots + 23.0760u - 53.1353 \\ 0.669502u^{88} + 0.854257u^{87} + \cdots + 93.7021u + 66.7594 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -1.85198u^{88} + 1.84275u^{87} + \cdots - 99.2054u + 21.2049 \\ -1.38144u^{88} + 0.574780u^{87} + \cdots - 104.158u - 29.9703 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.161350u^{88} - 1.91766u^{87} + \cdots - 107.928u - 102.769 \\ 1.27346u^{88} - 2.34459u^{87} + \cdots + 9.19607u - 60.8438 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -1.27022u^{88} + 0.255281u^{87} + \cdots - 89.4254u - 49.1154 \\ -1.92719u^{88} + 0.959452u^{87} + \cdots - 136.691u - 46.0116 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.293092u^{88} - 0.892600u^{87} + \cdots - 95.2003u - 56.2570 \\ 0.191137u^{88} + 1.45973u^{87} + \cdots + 91.9737u + 92.2085 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.293092u^{88} - 0.892600u^{87} + \cdots - 95.2003u - 56.2570 \\ 0.191137u^{88} + 1.45973u^{87} + \cdots + 91.9737u + 92.2085 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.667960u^{88} + 1.19445u^{87} + \cdots + 98.6923u + 70.3629$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{89} - 4u^{88} + \cdots - 121118u - 30299$
c_2	$u^{89} - u^{88} + \cdots + 74u - 3$
c_3	$u^{89} + 6u^{88} + \cdots + 9173u - 3187$
c_4, c_9, c_{10}	$u^{89} - 45u^{87} + \cdots - 29u + 1$
c_5	$u^{89} + 5u^{87} + \cdots - 1510u - 191$
c_6	$u^{89} + u^{88} + \cdots + 84u - 2543$
c_7, c_{11}	$u^{89} + u^{88} + \cdots + 48u - 59$
c_8	$u^{89} + 8u^{88} + \cdots + 21u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{89} + 22y^{88} + \cdots - 31326433006y - 918029401$
c_2	$y^{89} - 7y^{88} + \cdots + 1222y - 9$
c_3	$y^{89} - 40y^{88} + \cdots + 740124139y - 10156969$
c_4, c_9, c_{10}	$y^{89} - 90y^{88} + \cdots + 123y - 1$
c_5	$y^{89} + 10y^{88} + \cdots - 1020380y - 36481$
c_6	$y^{89} - 17y^{88} + \cdots + 242227806y - 6466849$
c_7, c_{11}	$y^{89} + 57y^{88} + \cdots - 106492y - 3481$
c_8	$y^{89} + 12y^{88} + \cdots + 29y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.087265 + 0.982767I$ $a = -0.04086 - 1.58758I$ $b = -0.19737 - 2.33544I$	$-0.50502 + 3.23925I$	0
$u = 0.087265 - 0.982767I$ $a = -0.04086 + 1.58758I$ $b = -0.19737 + 2.33544I$	$-0.50502 - 3.23925I$	0
$u = 0.046780 + 1.013680I$ $a = 0.416851 - 0.354974I$ $b = -0.111187 + 1.159690I$	$-3.50317 + 2.78548I$	0
$u = 0.046780 - 1.013680I$ $a = 0.416851 + 0.354974I$ $b = -0.111187 - 1.159690I$	$-3.50317 - 2.78548I$	0
$u = -0.446021 + 0.914047I$ $a = -2.48559 + 0.54321I$ $b = -0.571797 - 0.795448I$	$-5.19564 - 7.48572I$	0
$u = -0.446021 - 0.914047I$ $a = -2.48559 - 0.54321I$ $b = -0.571797 + 0.795448I$	$-5.19564 + 7.48572I$	0
$u = 0.260416 + 1.013500I$ $a = 2.27900 - 0.32057I$ $b = 0.659896 - 0.535201I$	$-0.59074 + 5.03975I$	0
$u = 0.260416 - 1.013500I$ $a = 2.27900 + 0.32057I$ $b = 0.659896 + 0.535201I$	$-0.59074 - 5.03975I$	0
$u = 1.064020 + 0.063310I$ $a = 0.045029 - 0.215883I$ $b = -0.911465 - 0.659115I$	$-0.03232 - 7.23979I$	0
$u = 1.064020 - 0.063310I$ $a = 0.045029 + 0.215883I$ $b = -0.911465 + 0.659115I$	$-0.03232 + 7.23979I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.039185 + 1.073690I$ $a = -1.47979 - 1.15466I$ $b = -0.627270 - 0.234640I$	$-3.66917 - 2.24819I$	0
$u = 0.039185 - 1.073690I$ $a = -1.47979 + 1.15466I$ $b = -0.627270 + 0.234640I$	$-3.66917 + 2.24819I$	0
$u = 0.497647 + 0.954960I$ $a = 1.28701 + 0.60287I$ $b = 0.477386 + 0.066075I$	$-4.69329 + 4.27856I$	0
$u = 0.497647 - 0.954960I$ $a = 1.28701 - 0.60287I$ $b = 0.477386 - 0.066075I$	$-4.69329 - 4.27856I$	0
$u = 0.039765 + 1.076270I$ $a = 1.46166 + 0.75014I$ $b = 1.017060 - 0.460738I$	$-4.07004 + 0.47327I$	0
$u = 0.039765 - 1.076270I$ $a = 1.46166 - 0.75014I$ $b = 1.017060 + 0.460738I$	$-4.07004 - 0.47327I$	0
$u = -0.615419 + 0.671458I$ $a = 0.189017 - 0.505603I$ $b = -0.560076 + 1.171310I$	$-4.51518 + 3.24714I$	0
$u = -0.615419 - 0.671458I$ $a = 0.189017 + 0.505603I$ $b = -0.560076 - 1.171310I$	$-4.51518 - 3.24714I$	0
$u = -0.121420 + 1.106610I$ $a = 1.31626 + 0.66629I$ $b = 1.031160 + 0.909995I$	$-1.75568 - 2.78654I$	0
$u = -0.121420 - 1.106610I$ $a = 1.31626 - 0.66629I$ $b = 1.031160 - 0.909995I$	$-1.75568 + 2.78654I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.875117+0.034580I$ $a=-0.386985-0.034842I$ $b=-0.155945-0.596885I$	$2.36715-0.35769I$	0
$u=-0.875117-0.034580I$ $a=-0.386985+0.034842I$ $b=-0.155945+0.596885I$	$2.36715+0.35769I$	0
$u=1.007920+0.535449I$ $a=0.336385-0.013362I$ $b=0.531325+0.593484I$	$-2.70373+0.98079I$	0
$u=1.007920-0.535449I$ $a=0.336385+0.013362I$ $b=0.531325-0.593484I$	$-2.70373-0.98079I$	0
$u=0.506291+1.032270I$ $a=0.866930+0.935334I$ $b=1.191080-0.080568I$	$-3.66544+1.93275I$	0
$u=0.506291-1.032270I$ $a=0.866930-0.935334I$ $b=1.191080+0.080568I$	$-3.66544-1.93275I$	0
$u=-0.236142+1.129110I$ $a=0.330233-1.155500I$ $b=0.70775-2.08057I$	$-7.96934-7.75557I$	0
$u=-0.236142-1.129110I$ $a=0.330233+1.155500I$ $b=0.70775+2.08057I$	$-7.96934+7.75557I$	0
$u=-0.328525+0.779440I$ $a=-0.807758+0.527555I$ $b=-0.410749+0.471628I$	$-0.12055-1.56154I$	0
$u=-0.328525-0.779440I$ $a=-0.807758-0.527555I$ $b=-0.410749-0.471628I$	$-0.12055+1.56154I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.788124+0.303926I$ $a=-0.387345+0.099692I$ $b=\ \ 0.619681+0.601987I$	$0.06582-2.81820I$	0
$u=-0.788124-0.303926I$ $a=-0.387345-0.099692I$ $b=\ \ 0.619681-0.601987I$	$0.06582+2.81820I$	0
$u=\ \ 0.445920+1.083550I$ $a=\ \ 1.87113+0.43186I$ $b=\ \ 1.44730-0.78897I$	$-3.75095+4.98969I$	0
$u=\ \ 0.445920-1.083550I$ $a=\ \ 1.87113-0.43186I$ $b=\ \ 1.44730+0.78897I$	$-3.75095-4.98969I$	0
$u=\ \ 0.678170+0.961510I$ $a=\ \ 1.51669+0.65840I$ $b=\ \ 1.117050-0.384555I$	$-4.26488+4.97917I$	0
$u=\ \ 0.678170-0.961510I$ $a=\ \ 1.51669-0.65840I$ $b=\ \ 1.117050+0.384555I$	$-4.26488-4.97917I$	0
$u=\ \ 0.126780+1.184510I$ $a=-1.284540+0.461804I$ $b=-1.001690-0.662057I$	$-9.69819+3.33662I$	0
$u=\ \ 0.126780-1.184510I$ $a=-1.284540-0.461804I$ $b=-1.001690+0.662057I$	$-9.69819-3.33662I$	0
$u=-1.24771$ $a=-0.301097$ $b=-0.418317$	2.46420	0
$u=-0.244543+1.228290I$ $a=-1.23179+0.86747I$ $b=-0.793130-0.382921I$	$-4.75803-4.24642I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.244543-1.228290I$ $a=-1.23179-0.86747I$ $b=-0.793130+0.382921I$	$-4.75803+4.24642I$	0
$u=-0.677969+0.254536I$ $a=\ \ 0.409907+1.157920I$ $b=-1.069570-0.571323I$	$-7.15487-2.90968I$	$-8.77339+3.39857I$
$u=-0.677969-0.254536I$ $a=\ \ 0.409907-1.157920I$ $b=-1.069570+0.571323I$	$-7.15487+2.90968I$	$-8.77339-3.39857I$
$u=-1.277250+0.127509I$ $a=\ \ 0.0389394-0.1322070I$ $b=\ \ 1.044920-0.622691I$	$-6.62392+10.71350I$	0
$u=-1.277250-0.127509I$ $a=\ \ 0.0389394+0.1322070I$ $b=\ \ 1.044920+0.622691I$	$-6.62392-10.71350I$	0
$u=\ \ 0.069180+0.695826I$ $a=-2.02727+1.35133I$ $b=-0.960722+0.879130I$	$0.09907-1.94759I$	$1.047268-0.082305I$
$u=\ \ 0.069180-0.695826I$ $a=-2.02727-1.35133I$ $b=-0.960722-0.879130I$	$0.09907+1.94759I$	$1.047268+0.082305I$
$u=-0.398390+1.249610I$ $a=-1.70242+0.10142I$ $b=-1.44678-1.39596I$	$-11.29010-6.82846I$	0
$u=-0.398390-1.249610I$ $a=-1.70242-0.10142I$ $b=-1.44678+1.39596I$	$-11.29010+6.82846I$	0
$u=\ \ 0.683363$ $a=\ \ 0.835726$ $b=\ \ 0.596379$	-2.43815	-4.51530

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.435092+0.490628I$ $a=-0.98737+1.36578I$ $b=-0.993481+0.278310I$	$-0.11272-1.93319I$	$1.42858+4.41047I$
$u=-0.435092-0.490628I$ $a=-0.98737-1.36578I$ $b=-0.993481-0.278310I$	$-0.11272+1.93319I$	$1.42858-4.41047I$
$u=0.151916+0.595849I$ $a=-0.441550-0.656585I$ $b=0.352124+1.046440I$	$0.84180-2.66745I$	$5.74905-1.98095I$
$u=0.151916-0.595849I$ $a=-0.441550+0.656585I$ $b=0.352124-1.046440I$	$0.84180+2.66745I$	$5.74905+1.98095I$
$u=-0.414299+1.325530I$ $a=1.59253+0.08221I$ $b=1.46438+0.92926I$	$-4.63913-7.16183I$	0
$u=-0.414299-1.325530I$ $a=1.59253-0.08221I$ $b=1.46438-0.92926I$	$-4.63913+7.16183I$	0
$u=-0.644934+1.230390I$ $a=-0.736732+0.726576I$ $b=-1.44148+0.01984I$	$-9.62472-2.50943I$	0
$u=-0.644934-1.230390I$ $a=-0.736732-0.726576I$ $b=-1.44148-0.01984I$	$-9.62472+2.50943I$	0
$u=0.246352+1.373650I$ $a=1.15659+0.88248I$ $b=0.695662-0.461228I$	$-11.08240+7.06191I$	0
$u=0.246352-1.373650I$ $a=1.15659-0.88248I$ $b=0.695662+0.461228I$	$-11.08240-7.06191I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.530049+1.305380I$ $a=-1.45314+0.19683I$ $b=-1.052980-0.528704I$	$-1.83963-5.67513I$	0
$u=-0.530049-1.305380I$ $a=-1.45314-0.19683I$ $b=-1.052980+0.528704I$	$-1.83963+5.67513I$	0
$u=\ 0.49937+1.32808I$ $a=-0.488895-0.527064I$ $b=-0.686607+0.222863I$	$-4.57148-1.94462I$	0
$u=\ 0.49937-1.32808I$ $a=-0.488895+0.527064I$ $b=-0.686607-0.222863I$	$-4.57148+1.94462I$	0
$u=-0.215639+0.534209I$ $a=-1.16518+2.62450I$ $b=-1.021100-0.309250I$	$-7.02333-2.79209I$	$-10.65282+2.82685I$
$u=-0.215639-0.534209I$ $a=-1.16518-2.62450I$ $b=-1.021100+0.309250I$	$-7.02333+2.79209I$	$-10.65282-2.82685I$
$u=\ 0.54058+1.33341I$ $a=-1.57123-0.12787I$ $b=-1.42757+0.93579I$	$-4.02189+12.94080I$	0
$u=\ 0.54058-1.33341I$ $a=-1.57123+0.12787I$ $b=-1.42757-0.93579I$	$-4.02189-12.94080I$	0
$u=\ 0.513373+0.147678I$ $a=-0.753590+0.248252I$ $b=\ 0.800692+0.560525I$	$-1.23216-1.17836I$	$-4.88311+4.54684I$
$u=\ 0.513373-0.147678I$ $a=-0.753590-0.248252I$ $b=\ 0.800692-0.560525I$	$-1.23216+1.17836I$	$-4.88311-4.54684I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.25454 + 1.44381I$ $a = -1.336270 + 0.250303I$ $b = -1.46023 + 0.90075I$	$-12.93760 + 3.41499I$	0
$u = 0.25454 - 1.44381I$ $a = -1.336270 - 0.250303I$ $b = -1.46023 - 0.90075I$	$-12.93760 - 3.41499I$	0
$u = -0.62479 + 1.38493I$ $a = 1.47088 - 0.22892I$ $b = 1.40808 + 0.97394I$	$-10.6453 - 17.3382I$	0
$u = -0.62479 - 1.38493I$ $a = 1.47088 + 0.22892I$ $b = 1.40808 - 0.97394I$	$-10.6453 + 17.3382I$	0
$u = 1.52669$ $a = 0.294467$ $b = 0.782757$	-2.00885	0
$u = 1.41052 + 0.59034I$ $a = 0.0916655 - 0.0956405I$ $b = -0.641469 + 0.112408I$	$-5.83989 - 1.30562I$	0
$u = 1.41052 - 0.59034I$ $a = 0.0916655 + 0.0956405I$ $b = -0.641469 - 0.112408I$	$-5.83989 + 1.30562I$	0
$u = 0.67751 + 1.43400I$ $a = -0.795814 - 0.141330I$ $b = -0.920623 + 0.747247I$	$-9.42451 + 9.01167I$	0
$u = 0.67751 - 1.43400I$ $a = -0.795814 + 0.141330I$ $b = -0.920623 - 0.747247I$	$-9.42451 - 9.01167I$	0
$u = -0.55611 + 1.48766I$ $a = 0.601362 - 0.005171I$ $b = 0.692230 + 0.691299I$	$-2.70633 - 4.15001I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.55611-1.48766I$ $a=\ 0.601362+0.005171I$ $b=\ 0.692230-0.691299I$	$-2.70633+4.15001I$	0
$u=\ 0.54992+1.52692I$ $a=\ 1.225460+0.136232I$ $b=\ 1.130120-0.483941I$	$-7.35822+7.24063I$	0
$u=\ 0.54992-1.52692I$ $a=\ 1.225460-0.136232I$ $b=\ 1.130120+0.483941I$	$-7.35822-7.24063I$	0
$u=-0.180594+0.309779I$ $a=\ 5.14197+1.52978I$ $b=\ 0.775482+0.702564I$	$-5.46219+5.61812I$	$-2.79757-0.10435I$
$u=-0.180594-0.309779I$ $a=\ 5.14197-1.52978I$ $b=\ 0.775482-0.702564I$	$-5.46219-5.61812I$	$-2.79757+0.10435I$
$u=\ 0.252949+0.250663I$ $a=\ 1.47113-0.57500I$ $b=\ 0.288716-1.130940I$	$1.14260+3.25401I$	$3.95954-7.62313I$
$u=\ 0.252949-0.250663I$ $a=\ 1.47113+0.57500I$ $b=\ 0.288716+1.130940I$	$1.14260-3.25401I$	$3.95954+7.62313I$
$u=-0.33710+1.61859I$ $a=\ 0.795660-0.350100I$ $b=\ 1.030800+0.166941I$	$-12.68790+4.35097I$	0
$u=-0.33710-1.61859I$ $a=\ 0.795660+0.350100I$ $b=\ 1.030800-0.166941I$	$-12.68790-4.35097I$	0

II. $I_2^u = \langle u^{18} - 2u^{17} + \cdots + b - 1,\ 2810u^{19} - 4920u^{18} + \cdots + 107a - 1193,\ u^{20} - 2u^{19} + \cdots + u - 1\rangle$

(i) Arc colorings

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -26.2617u^{19} + 45.9813u^{18} + \cdots + 23.3364u + 11.1495 \\ -u^{18} + 2u^{17} + \cdots + 9u^2 + 1 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -11.8131u^{19} + 19.2991u^{18} + \cdots + 2.61682u + 5.60748 \\ 14.4486u^{19} - 27.6822u^{18} + \cdots - 20.7196u - 4.54206 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -11.8131u^{19} + 19.2991u^{18} + \cdots + 3.61682u + 5.60748 \\ 6.62617u^{19} - 13.5981u^{18} + \cdots - 12.2336u - 1.21495 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 14.8411u^{19} - 54.6542u^{18} + \cdots - 77.2243u + 52.2336 \\ 6u^{19} - 12u^{18} + \cdots + 6u^2 - 7u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -13.8972u^{19} + 38.3645u^{18} + \cdots + 25.4393u - 13.9159 \\ -9.35514u^{19} + 13.8318u^{18} + \cdots - 10.9720u + 20.3458 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -3.65421u^{19} + 7.95327u^{18} + \cdots + 31.8411u + 1.37383 \\ -0.635514u^{19} + 19.3832u^{18} + \cdots + 57.1028u - 49.0654 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -4.98131u^{19} + 25.4299u^{18} + \cdots + 45.2617u - 39.4393 \\ 0.644860u^{19} - 8.16822u^{18} + \cdots - 26.9720u + 29.3458 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -4.98131u^{19} + 25.4299u^{18} + \cdots + 45.2617u - 39.4393 \\ 0.644860u^{19} - 8.16822u^{18} + \cdots - 26.9720u + 29.3458 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{11858}{107}u^{19} - \frac{34035}{107}u^{18} + \cdots - \frac{56013}{107}u + \frac{24789}{107}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20}+u^{19}+\cdots-u-1$
c_2	$u^{20}-u^{18}+\cdots-u-1$
c_3	$u^{20}+7u^{19}+\cdots+26u^2-1$
c_4	$u^{20}-u^{19}+\cdots+2u+1$
c_5	$u^{20}+3u^{19}+\cdots-u-1$
c_6	$u^{20}+4u^{18}+\cdots+3u-1$
c_7	$u^{20}-2u^{19}+\cdots+u-1$
c_8	$u^{20}-3u^{19}+\cdots-3u^2+1$
c_9, c_{10}	$u^{20}+u^{19}+\cdots-2u+1$
c_{11}	$u^{20}+2u^{19}+\cdots-u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{20} - 9y^{19} + \cdots + y + 1$
c_2	$y^{20} - 2y^{19} + \cdots + y + 1$
c_3	$y^{20} - 3y^{19} + \cdots - 52y + 1$
c_4, c_9, c_{10}	$y^{20} - 21y^{19} + \cdots - 28y + 1$
c_5	$y^{20} + 3y^{19} + \cdots + 11y + 1$
c_6	$y^{20} + 8y^{19} + \cdots - 11y + 1$
c_7, c_{11}	$y^{20} + 10y^{19} + \cdots + 19y + 1$
c_8	$y^{20} + y^{19} + \cdots - 6y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.023098 + 0.755612I$ $a = 0.77533 + 1.84505I$ $b = 0.19540 + 1.74306I$	$0.16874 + 2.77142I$	$2.49688 - 6.12151I$
$u = 0.023098 - 0.755612I$ $a = 0.77533 - 1.84505I$ $b = 0.19540 - 1.74306I$	$0.16874 - 2.77142I$	$2.49688 + 6.12151I$
$u = 0.541044 + 1.141770I$ $a = 1.81236 + 0.36763I$ $b = 0.920204 - 0.446036I$	$-5.23739 + 5.55861I$	$-8.63842 - 8.06052I$
$u = 0.541044 - 1.141770I$ $a = 1.81236 - 0.36763I$ $b = 0.920204 + 0.446036I$	$-5.23739 - 5.55861I$	$-8.63842 + 8.06052I$
$u = -0.416386 + 1.198530I$ $a = -1.62703 + 0.06947I$ $b = -1.019980 - 0.686033I$	$-2.35880 - 5.00950I$	$-4.53218 + 5.02781I$
$u = -0.416386 - 1.198530I$ $a = -1.62703 - 0.06947I$ $b = -1.019980 + 0.686033I$	$-2.35880 + 5.00950I$	$-4.53218 - 5.02781I$
$u = 1.27522$ $a = 0.595699$ $b = 0.485579$	-1.31038	6.20020
$u = 1.057510 + 0.728926I$ $a = -0.295893 + 0.357385I$ $b = 0.572386 - 0.096735I$	$-5.62801 - 1.51138I$	$-5.02190 + 9.76370I$
$u = 1.057510 - 0.728926I$ $a = -0.295893 - 0.357385I$ $b = 0.572386 + 0.096735I$	$-5.62801 + 1.51138I$	$-5.02190 - 9.76370I$
$u = -1.29712$ $a = -0.226506$ $b = -0.483546$	2.35090	-37.5790

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.053636+0.686332I$ $a=\ \ 0.477848+0.259027I$ $b=-0.274254+1.252550I$	$0.41433+2.93710I$	$-8.44025-5.37355I$
$u=-0.053636-0.686332I$ $a=\ \ 0.477848-0.259027I$ $b=-0.274254-1.252550I$	$0.41433-2.93710I$	$-8.44025+5.37355I$
$u=-0.172612+0.633647I$ $a=-2.39427+2.55984I$ $b=-0.558207+0.814180I$	$-5.94321-6.14570I$	$-10.52858+8.02706I$
$u=-0.172612-0.633647I$ $a=-2.39427-2.55984I$ $b=-0.558207-0.814180I$	$-5.94321+6.14570I$	$-10.52858-8.02706I$
$u=-0.391244+1.285840I$ $a=-0.905832-0.019168I$ $b=-0.869606-0.821260I$	$-2.62899-3.66788I$	$-5.57286+1.70794I$
$u=-0.391244-1.285840I$ $a=-0.905832+0.019168I$ $b=-0.869606+0.821260I$	$-2.62899+3.66788I$	$-5.57286-1.70794I$
$u=\ \ 0.319597+1.353040I$ $a=\ \ 1.048790+0.126841I$ $b=\ \ 0.732984-0.987021I$	$-9.99863+6.70009I$	$-6.33266-4.76825I$
$u=\ \ 0.319597-1.353040I$ $a=\ \ 1.048790-0.126841I$ $b=\ \ 0.732984+0.987021I$	$-9.99863-6.70009I$	$-6.33266+4.76825I$
$u=\ \ 0.103581+0.582151I$ $a=-0.57589-2.05632I$ $b=\ \ 0.300055+0.812653I$	$-2.20697-2.35727I$	$0.75955+2.29179I$
$u=\ \ 0.103581-0.582151I$ $a=-0.57589+2.05632I$ $b=\ \ 0.300055-0.812653I$	$-2.20697+2.35727I$	$0.75955-2.29179I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{20}+u^{19}+\cdots-u-1)(u^{89}-4u^{88}+\cdots-121118u-30299)$
c_2	$(u^{20}-u^{18}+\cdots-u-1)(u^{89}-u^{88}+\cdots+74u-3)$
c_3	$(u^{20}+7u^{19}+\cdots+26u^2-1)(u^{89}+6u^{88}+\cdots+9173u-3187)$
c_4	$(u^{20}-u^{19}+\cdots+2u+1)(u^{89}-45u^{87}+\cdots-29u+1)$
c_5	$(u^{20}+3u^{19}+\cdots-u-1)(u^{89}+5u^{87}+\cdots-1510u-191)$
c_6	$(u^{20}+4u^{18}+\cdots+3u-1)(u^{89}+u^{88}+\cdots+84u-2543)$
c_7	$(u^{20}-2u^{19}+\cdots+u-1)(u^{89}+u^{88}+\cdots+48u-59)$
c_8	$(u^{20}-3u^{19}+\cdots-3u^2+1)(u^{89}+8u^{88}+\cdots+21u+1)$
c_9, c_{10}	$(u^{20}+u^{19}+\cdots-2u+1)(u^{89}-45u^{87}+\cdots-29u+1)$
c_{11}	$(u^{20}+2u^{19}+\cdots-u-1)(u^{89}+u^{88}+\cdots+48u-59)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{20}-9y^{19}+\cdots+y+1)$ $\cdot(y^{89}+22y^{88}+\cdots-31326433006y-918029401)$
c_2	$(y^{20}-2y^{19}+\cdots+y+1)(y^{89}-7y^{88}+\cdots+1222y-9)$
c_3	$(y^{20}-3y^{19}+\cdots-52y+1)$ $\cdot(y^{89}-40y^{88}+\cdots+740124139y-10156969)$
c_4, c_9, c_{10}	$(y^{20}-21y^{19}+\cdots-28y+1)(y^{89}-90y^{88}+\cdots+123y-1)$
c_5	$(y^{20}+3y^{19}+\cdots+11y+1)(y^{89}+10y^{88}+\cdots-1020380y-36481)$
c_6	$(y^{20}+8y^{19}+\cdots-11y+1)$ $\cdot(y^{89}-17y^{88}+\cdots+242227806y-6466849)$
c_7, c_{11}	$(y^{20}+10y^{19}+\cdots+19y+1)(y^{89}+57y^{88}+\cdots-106492y-3481)$
c_8	$(y^{20}+y^{19}+\cdots-6y+1)(y^{89}+12y^{88}+\cdots+29y-1)$