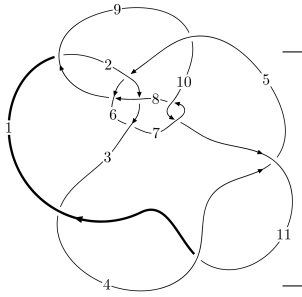
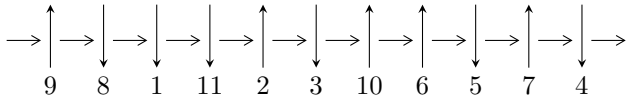
$11a_{272}$ $(K11a_{272})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle -3.61113 \times 10^{167} u^{92} + 2.18472 \times 10^{168} u^{91} + \cdots + 6.37635 \times 10^{168} b + 3.55089 \times 10^{168},$$
$$- 9.18713 \times 10^{168} u^{92} + 2.85060 \times 10^{169} u^{91} + \cdots + 6.37635 \times 10^{168} a - 2.67247 \times 10^{170},$$
$$u^{93} - 3u^{92} + \cdots + 35u + 1 \rangle$$
$$I_2^u = \langle -u^{18} - 4u^{17} + \cdots + b + 1,\ -3u^{18} - 12u^{17} + \cdots + a - 6,\ u^{19} + 4u^{18} + \cdots + 6u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 112 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. $\boldsymbol{I_1^u = \langle -3.61 \times 10^{167} u^{92} + 2.18 \times 10^{168} u^{91} + \cdots + 6.38 \times 10^{168} b + 3.55 \times 10^{168},\ -9.19 \times 10^{168} u^{92} + 2.85 \times 10^{169} u^{91} + \cdots + 6.38 \times 10^{168} a - 2.67 \times 10^{170},\ u^{93} - 3u^{92} + \cdots + 35u + 1 \rangle}$

(i) Arc colorings

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

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

$$a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1.44081u^{92} - 4.47059u^{91} + \cdots + 218.541u + 41.9122 \\ 0.0566333u^{92} - 0.342629u^{91} + \cdots - 7.62012u - 0.556885 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1.42259u^{92} - 4.52646u^{91} + \cdots + 214.273u + 41.5325 \\ -0.0227635u^{92} + 0.0219528u^{91} + \cdots - 5.44936u - 0.491557 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.77836u^{92} - 5.34281u^{91} + \cdots + 274.509u + 50.4757 \\ -0.0631020u^{92} + 0.374452u^{91} + \cdots - 2.47058u - 0.512941 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1.71526u^{92} - 4.96836u^{91} + \cdots + 272.038u + 49.9627 \\ -0.0631020u^{92} + 0.374452u^{91} + \cdots - 2.47058u - 0.512941 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -2.58352u^{92} + 7.76269u^{91} + \cdots - 386.533u - 70.1350 \\ -0.106632u^{92} + 0.379755u^{91} + \cdots + 5.53474u + 0.757562 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 3.39815u^{92} - 10.1775u^{91} + \cdots + 545.871u + 102.229 \\ 0.0767390u^{92} - 0.283264u^{91} + \cdots - 7.14975u - 1.07497 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 3.39815u^{92} - 10.1775u^{91} + \cdots + 545.871u + 102.229 \\ 0.0767390u^{92} - 0.283264u^{91} + \cdots - 7.14975u - 1.07497 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.120851u^{92} - 0.494471u^{91} + \cdots + 138.022u + 32.4350$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{93} - 4u^{92} + \cdots - 31u - 1$
c_2	$u^{93} - u^{92} + \cdots - 16u^2 - 1$
c_3, c_4, c_{11}	$u^{93} + 3u^{92} + \cdots + 35u - 1$
c_5	$u^{93} - 2u^{92} + \cdots - 55u^2 + 5$
c_6	$u^{93} - u^{92} + \cdots + 1077u - 389$
c_7, c_{10}	$u^{93} - 5u^{92} + \cdots - 780u - 145$
c_8	$u^{93} + 6u^{92} + \cdots - 15u - 1$
c_9	$u^{93} + u^{92} + \cdots + 200551u - 22691$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{93} - 8y^{92} + \cdots + 187y - 1$
c_2	$y^{93} - 3y^{92} + \cdots - 32y - 1$
c_3, c_4, c_{11}	$y^{93} + 89y^{92} + \cdots + 865y - 1$
c_5	$y^{93} - 2y^{92} + \cdots + 550y - 25$
c_6	$y^{93} - y^{92} + \cdots + 10281979y - 151321$
c_7, c_{10}	$y^{93} + 47y^{92} + \cdots - 487800y - 21025$
c_8	$y^{93} + 82y^{91} + \cdots - 11y - 1$
c_9	$y^{93} + 11y^{92} + \cdots - 8110309523y - 514881481$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.911459+0.395130I$ $a=-0.060081-1.366940I$ $b=\ 0.51305+1.76784I$	$-2.34640+13.18230I$	0
$u=-0.911459-0.395130I$ $a=-0.060081+1.366940I$ $b=\ 0.51305-1.76784I$	$-2.34640-13.18230I$	0
$u=\ 0.246625+0.978794I$ $a=\ 0.958092+0.139258I$ $b=\ 0.448747+0.173387I$	$0.12781-2.07574I$	0
$u=\ 0.246625-0.978794I$ $a=\ 0.958092-0.139258I$ $b=\ 0.448747-0.173387I$	$0.12781+2.07574I$	0
$u=\ 0.974658+0.386518I$ $a=\ 0.113415+1.095790I$ $b=\ 0.60161-1.59436I$	$-3.52135-3.76961I$	0
$u=\ 0.974658-0.386518I$ $a=\ 0.113415-1.095790I$ $b=\ 0.60161+1.59436I$	$-3.52135+3.76961I$	0
$u=\ 0.955720+0.446072I$ $a=-0.055176-1.052380I$ $b=-0.22885+1.73553I$	$-3.32185-4.23352I$	0
$u=\ 0.955720-0.446072I$ $a=-0.055176+1.052380I$ $b=-0.22885-1.73553I$	$-3.32185+4.23352I$	0
$u=-0.756553+0.865886I$ $a=-0.974997+0.306547I$ $b=-0.243449-1.167070I$	$-0.98495-7.52546I$	0
$u=-0.756553-0.865886I$ $a=-0.974997-0.306547I$ $b=-0.243449+1.167070I$	$-0.98495+7.52546I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.732299 + 0.909796I$ $a = 0.707676 + 0.298865I$ $b = 0.879779 - 0.946817I$	$-2.03674 - 1.66542I$	0
$u = 0.732299 - 0.909796I$ $a = 0.707676 - 0.298865I$ $b = 0.879779 + 0.946817I$	$-2.03674 + 1.66542I$	0
$u = 0.602610 + 0.551898I$ $a = 0.57808 + 1.50406I$ $b = 0.617201 - 1.013870I$	$-1.66403 - 4.99482I$	$0. + 12.04743I$
$u = 0.602610 - 0.551898I$ $a = 0.57808 - 1.50406I$ $b = 0.617201 + 1.013870I$	$-1.66403 + 4.99482I$	$0. - 12.04743I$
$u = 0.210852 + 1.187670I$ $a = -0.543462 - 0.727634I$ $b = -0.24590 + 1.78211I$	$0.59025 - 5.59173I$	0
$u = 0.210852 - 1.187670I$ $a = -0.543462 + 0.727634I$ $b = -0.24590 - 1.78211I$	$0.59025 + 5.59173I$	0
$u = -0.042552 + 1.208860I$ $a = 1.181090 + 0.101333I$ $b = 1.82870 + 0.41508I$	$-1.60314 - 3.04863I$	0
$u = -0.042552 - 1.208860I$ $a = 1.181090 - 0.101333I$ $b = 1.82870 - 0.41508I$	$-1.60314 + 3.04863I$	0
$u = 0.738015 + 0.267719I$ $a = -0.644949 - 1.095980I$ $b = 0.58532 + 1.33188I$	$-2.67687 + 0.69646I$	$-9.23370 + 0.62043I$
$u = 0.738015 - 0.267719I$ $a = -0.644949 + 1.095980I$ $b = 0.58532 - 1.33188I$	$-2.67687 - 0.69646I$	$-9.23370 - 0.62043I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.777826 + 0.016678I$ $a = 0.62554 - 1.27383I$ $b = 0.198182 + 1.154930I$	$-2.91425 - 1.94861I$	$-10.28563 + 0.40390I$
$u = 0.777826 - 0.016678I$ $a = 0.62554 + 1.27383I$ $b = 0.198182 - 1.154930I$	$-2.91425 + 1.94861I$	$-10.28563 - 0.40390I$
$u = 0.288392 + 0.707750I$ $a = 0.768676 + 0.217271I$ $b = 0.005605 + 0.312661I$	$0.13872 - 2.01683I$	$0.67333 + 3.98715I$
$u = 0.288392 - 0.707750I$ $a = 0.768676 - 0.217271I$ $b = 0.005605 - 0.312661I$	$0.13872 + 2.01683I$	$0.67333 - 3.98715I$
$u = -0.654822 + 0.391719I$ $a = -1.263680 - 0.402248I$ $b = 0.260205 - 0.435804I$	$0.67894 + 7.53424I$	$-0.24390 - 7.52483I$
$u = -0.654822 - 0.391719I$ $a = -1.263680 + 0.402248I$ $b = 0.260205 + 0.435804I$	$0.67894 - 7.53424I$	$-0.24390 + 7.52483I$
$u = -0.591766 + 0.464752I$ $a = -0.154401 - 0.822190I$ $b = 0.82840 + 1.15264I$	$1.00153 - 3.54334I$	$1.58809 + 0.30458I$
$u = -0.591766 - 0.464752I$ $a = -0.154401 + 0.822190I$ $b = 0.82840 - 1.15264I$	$1.00153 + 3.54334I$	$1.58809 - 0.30458I$
$u = 0.812390 + 0.967240I$ $a = -0.587684 - 0.393263I$ $b = -0.394533 + 1.276390I$	$-1.92498 - 2.34475I$	0
$u = 0.812390 - 0.967240I$ $a = -0.587684 + 0.393263I$ $b = -0.394533 - 1.276390I$	$-1.92498 + 2.34475I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.672569+0.279083I$ $a=\ \ 0.06726+1.89775I$ $b=-0.49534-1.65370I$	$-1.19275+5.34921I$	$0.55034-10.82397I$
$u=-0.672569-0.279083I$ $a=\ \ 0.06726-1.89775I$ $b=-0.49534+1.65370I$	$-1.19275-5.34921I$	$0.55034+10.82397I$
$u=\ \ 0.003533+1.274680I$ $a=\ \ 0.525082+0.174725I$ $b=\ \ 0.54755-2.88462I$	$2.75039+4.22339I$	0
$u=\ \ 0.003533-1.274680I$ $a=\ \ 0.525082-0.174725I$ $b=\ \ 0.54755+2.88462I$	$2.75039-4.22339I$	0
$u=-0.117069+1.283880I$ $a=-1.315870+0.095206I$ $b=-1.012990-0.406576I$	$-1.28790+5.38199I$	0
$u=-0.117069-1.283880I$ $a=-1.315870-0.095206I$ $b=-1.012990+0.406576I$	$-1.28790-5.38199I$	0
$u=-0.176650+1.277580I$ $a=\ \ 0.799827-0.504979I$ $b=\ \ 0.09805+1.48760I$	$-0.818431-0.586473I$	0
$u=-0.176650-1.277580I$ $a=\ \ 0.799827+0.504979I$ $b=\ \ 0.09805-1.48760I$	$-0.818431+0.586473I$	0
$u=\ \ 0.004246+1.329120I$ $a=-0.858955+0.481977I$ $b=-1.18895-1.40669I$	$3.86557+1.99478I$	0
$u=\ \ 0.004246-1.329120I$ $a=-0.858955-0.481977I$ $b=-1.18895+1.40669I$	$3.86557-1.99478I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.305242+1.326130I$ $a=-0.472815+0.658481I$ $b=-1.51214-1.46798I$	$5.23834+5.65499I$	0
$u=-0.305242-1.326130I$ $a=-0.472815-0.658481I$ $b=-1.51214+1.46798I$	$5.23834-5.65499I$	0
$u=0.535771+0.331980I$ $a=0.561496-0.224728I$ $b=0.275495+0.063895I$	$-1.05560-1.04516I$	$-5.24999+4.73518I$
$u=0.535771-0.331980I$ $a=0.561496+0.224728I$ $b=0.275495-0.063895I$	$-1.05560+1.04516I$	$-5.24999-4.73518I$
$u=-0.135847+1.378470I$ $a=0.378488+0.952853I$ $b=-0.626385-0.559687I$	$7.46821+1.40401I$	0
$u=-0.135847-1.378470I$ $a=0.378488-0.952853I$ $b=-0.626385+0.559687I$	$7.46821-1.40401I$	0
$u=0.275110+1.366140I$ $a=-0.482588-0.137919I$ $b=-0.26114+1.75093I$	$2.40844-2.97328I$	0
$u=0.275110-1.366140I$ $a=-0.482588+0.137919I$ $b=-0.26114-1.75093I$	$2.40844+2.97328I$	0
$u=-0.172915+1.402530I$ $a=0.563359+0.548099I$ $b=-0.151156+0.172009I$	$5.61748-0.19647I$	0
$u=-0.172915-1.402530I$ $a=0.563359-0.548099I$ $b=-0.151156-0.172009I$	$5.61748+0.19647I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.07853 + 1.41526I$ $a = -0.385092 + 0.973133I$ $b = -0.164397 - 0.529226I$	$7.62011 - 0.60893I$	0
$u = 0.07853 - 1.41526I$ $a = -0.385092 - 0.973133I$ $b = -0.164397 + 0.529226I$	$7.62011 + 0.60893I$	0
$u = -0.576840 + 0.056978I$ $a = 1.01392 + 1.04721I$ $b = -0.478791 - 0.978508I$	$0.93991 + 2.24276I$	$2.13382 - 6.20149I$
$u = -0.576840 - 0.056978I$ $a = 1.01392 - 1.04721I$ $b = -0.478791 + 0.978508I$	$0.93991 - 2.24276I$	$2.13382 + 6.20149I$
$u = -0.16657 + 1.41522I$ $a = -0.737844 + 0.359479I$ $b = 0.05293 - 2.26413I$	$0.95617 + 6.95484I$	0
$u = -0.16657 - 1.41522I$ $a = -0.737844 - 0.359479I$ $b = 0.05293 + 2.26413I$	$0.95617 - 6.95484I$	0
$u = -0.26162 + 1.41387I$ $a = -0.829533 + 0.679950I$ $b = -1.27505 - 1.88111I$	$4.22352 + 8.75550I$	0
$u = -0.26162 - 1.41387I$ $a = -0.829533 - 0.679950I$ $b = -1.27505 + 1.88111I$	$4.22352 - 8.75550I$	0
$u = 0.17440 + 1.45659I$ $a = -0.717413 - 0.360056I$ $b = -1.90212 + 1.94824I$	$5.89949 - 6.94617I$	0
$u = 0.17440 - 1.45659I$ $a = -0.717413 + 0.360056I$ $b = -1.90212 - 1.94824I$	$5.89949 + 6.94617I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.527457+0.063186I$ $a=-0.07687-2.62551I$ $b=-0.357457+1.182460I$	$-4.97774-3.20790I$	$-8.72666+3.61708I$
$u=-0.527457-0.063186I$ $a=-0.07687+2.62551I$ $b=-0.357457-1.182460I$	$-4.97774+3.20790I$	$-8.72666-3.61708I$
$u=-0.24734+1.45630I$ $a=-0.397332-0.787003I$ $b=\ \ 0.343876+0.308196I$	$6.62651+10.84470I$	0
$u=-0.24734-1.45630I$ $a=-0.397332+0.787003I$ $b=\ \ 0.343876-0.308196I$	$6.62651-10.84470I$	0
$u=-0.005024+0.519936I$ $a=\ \ 1.53006+0.63638I$ $b=-0.128808+0.625732I$	$0.19375-2.00732I$	$1.90291+4.08224I$
$u=-0.005024-0.519936I$ $a=\ \ 1.53006-0.63638I$ $b=-0.128808-0.625732I$	$0.19375+2.00732I$	$1.90291-4.08224I$
$u=\ \ 0.14435+1.47435I$ $a=\ \ 0.051712+0.613325I$ $b=-0.177691-0.333417I$	$6.55607-3.56363I$	0
$u=\ \ 0.14435-1.47435I$ $a=\ \ 0.051712-0.613325I$ $b=-0.177691+0.333417I$	$6.55607+3.56363I$	0
$u=\ \ 0.21979+1.46839I$ $a=\ \ 0.370817-0.468364I$ $b=\ \ 0.022326+0.589901I$	$4.94375-3.83324I$	0
$u=\ \ 0.21979-1.46839I$ $a=\ \ 0.370817+0.468364I$ $b=\ \ 0.022326-0.589901I$	$4.94375+3.83324I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.19636+1.47715I$ $a=\ 0.575084-0.439374I$ $b=\ 1.51693+1.22032I$	$7.35184-0.66069I$	0
$u=-0.19636-1.47715I$ $a=\ 0.575084+0.439374I$ $b=\ 1.51693-1.22032I$	$7.35184+0.66069I$	0
$u=-0.445879+0.223933I$ $a=-0.72430+2.47527I$ $b=\ 0.63559-1.52906I$	$-4.38663+4.68917I$	$-11.13071-7.83950I$
$u=-0.445879-0.223933I$ $a=-0.72430-2.47527I$ $b=\ 0.63559+1.52906I$	$-4.38663-4.68917I$	$-11.13071+7.83950I$
$u=\ 0.317173+0.374066I$ $a=-0.92898-1.56886I$ $b=-0.69662+2.12690I$	$-0.13387-4.83140I$	$-1.38014+12.10335I$
$u=\ 0.317173-0.374066I$ $a=-0.92898+1.56886I$ $b=-0.69662-2.12690I$	$-0.13387+4.83140I$	$-1.38014-12.10335I$
$u=\ 0.23285+1.49755I$ $a=\ 0.745388+0.647957I$ $b=\ 0.86766-1.24614I$	$4.93482-8.13681I$	0
$u=\ 0.23285-1.49755I$ $a=\ 0.745388-0.647957I$ $b=\ 0.86766+1.24614I$	$4.93482+8.13681I$	0
$u=\ 0.36704+1.48082I$ $a=\ 0.728699+0.535940I$ $b=\ 1.35721-1.37957I$	$2.42961-8.56668I$	0
$u=\ 0.36704-1.48082I$ $a=\ 0.728699-0.535940I$ $b=\ 1.35721+1.37957I$	$2.42961+8.56668I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.34922+1.49380I$ $a=\ 0.709563-0.650111I$ $b=\ 1.26940+1.85557I$	$3.7167+17.7393I$	0
$u=-0.34922-1.49380I$ $a=\ 0.709563+0.650111I$ $b=\ 1.26940-1.85557I$	$3.7167-17.7393I$	0
$u=\ 0.35894+1.51768I$ $a=-0.594952-0.533137I$ $b=-1.05454+1.85472I$	$2.98943-8.99089I$	0
$u=\ 0.35894-1.51768I$ $a=-0.594952+0.533137I$ $b=-1.05454-1.85472I$	$2.98943+8.99089I$	0
$u=\ 0.10285+1.58207I$ $a=\ 0.322796-0.166607I$ $b=-0.611667+0.333370I$	$7.99033-3.67115I$	0
$u=\ 0.10285-1.58207I$ $a=\ 0.322796+0.166607I$ $b=-0.611667-0.333370I$	$7.99033+3.67115I$	0
$u=-0.100806+0.397094I$ $a=\ 2.20139+0.48685I$ $b=-0.210768+0.748546I$	$0.18872-2.00916I$	$2.24464+3.56470I$
$u=-0.100806-0.397094I$ $a=\ 2.20139-0.48685I$ $b=-0.210768-0.748546I$	$0.18872+2.00916I$	$2.24464-3.56470I$
$u=-0.186714+0.346826I$ $a=\ 1.35275+1.99552I$ $b=-0.398511+0.161176I$	$2.29833-0.12628I$	$10.47295-1.82234I$
$u=-0.186714-0.346826I$ $a=\ 1.35275-1.99552I$ $b=-0.398511-0.161176I$	$2.29833+0.12628I$	$10.47295+1.82234I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.03589+1.65255I$ $a=-0.401052-0.252951I$ $b=-0.266809+0.186901I$	$8.28168-4.75781I$	0
$u=-0.03589-1.65255I$ $a=-0.401052+0.252951I$ $b=-0.266809-0.186901I$	$8.28168+4.75781I$	0
$u=-0.0336230$ $a=\quad 35.5555$ $b=-0.339499$	2.39628	28.3130

II. $I_2^u =$
$\langle -u^{18}-4u^{17}+\cdots+b+1,\ -3u^{18}-12u^{17}+\cdots+a-6,\ u^{19}+4u^{18}+\cdots+6u+1\rangle$

(i) Arc colorings

$$a_5 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_4 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$
$$a_1 = \begin{pmatrix}-u\\u^3+u\end{pmatrix}$$
$$a_3 = \begin{pmatrix}u^2+1\\-u^4-2u^2\end{pmatrix}$$
$$a_7 = \begin{pmatrix}3u^{18}+12u^{17}+\cdots+15u+6\\u^{18}+4u^{17}+\cdots-3u-1\end{pmatrix}$$
$$a_6 = \begin{pmatrix}3u^{18}+12u^{17}+\cdots+13u+6\\-u^6-2u^5-5u^4-6u^3-6u^2-4u-1\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}u^{18}+4u^{17}+\cdots+8u+6\\2u^{17}+7u^{16}+\cdots+8u+1\end{pmatrix}$$
$$a_9 = \begin{pmatrix}u^{18}+6u^{17}+\cdots+16u+7\\2u^{17}+7u^{16}+\cdots+8u+1\end{pmatrix}$$
$$a_2 = \begin{pmatrix}-3u^{18}-12u^{17}+\cdots-30u-11\\u^3+u^2+2u+1\end{pmatrix}$$
$$a_8 = \begin{pmatrix}u^{18}+3u^{17}+\cdots+21u+14\\2u^{17}+8u^{16}+\cdots+13u^2+5u\end{pmatrix}$$
$$a_8 = \begin{pmatrix}u^{18}+3u^{17}+\cdots+21u+14\\2u^{17}+8u^{16}+\cdots+13u^2+5u\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes
$= -6u^{18}-28u^{17}-127u^{16}-363u^{15}-940u^{14}-1903u^{13}-3460u^{12}-5244u^{11}-7119u^{10}-8212u^9-8436u^8-7329u^7-5610u^6-3541u^5-1966u^4-855u^3-370u^2-101u-43$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{19}+u^{18}+\cdots+4u^2-1$
c_2	$u^{19}-4u^{17}+\cdots-u-1$
c_3, c_4	$u^{19}+4u^{18}+\cdots+6u+1$
c_5	$u^{19}+u^{18}+\cdots-3u-1$
c_6	$u^{19}-2u^{18}+\cdots+4u+7$
c_7	$u^{19}+6u^{18}+\cdots+3u+1$
c_8	$u^{19}-3u^{18}+\cdots-u^2-1$
c_9	$u^{19}-3u^{17}+\cdots-8u-7$
c_{10}	$u^{19}-6u^{18}+\cdots+3u-1$
c_{11}	$u^{19}-4u^{18}+\cdots+6u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{19} - 9y^{18} + \cdots + 8y - 1$
c_2	$y^{19} - 8y^{18} + \cdots + 9y - 1$
c_3, c_4, c_{11}	$y^{19} + 20y^{18} + \cdots + 2y - 1$
c_5	$y^{19} + 5y^{18} + \cdots + 3y - 1$
c_6	$y^{19} + 6y^{18} + \cdots + 184y - 49$
c_7, c_{10}	$y^{19} + 10y^{18} + \cdots - 19y - 1$
c_8	$y^{19} - 5y^{18} + \cdots - 2y - 1$
c_9	$y^{19} - 6y^{18} + \cdots + 190y - 49$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.822625+0.504824I$ $a=-0.271844+1.136820I$ $b=-0.45867-1.52566I$	$-2.64209+4.02888I$	$-1.74103-7.17564I$
$u=-0.822625-0.504824I$ $a=-0.271844-1.136820I$ $b=-0.45867+1.52566I$	$-2.64209-4.02888I$	$-1.74103+7.17564I$
$u=-0.781988+0.922190I$ $a=\ \ 0.652220-0.305768I$ $b=\ \ 0.590784+0.988016I$	$-1.58761+1.75063I$	$3.91034-0.25504I$
$u=-0.781988-0.922190I$ $a=\ \ 0.652220+0.305768I$ $b=\ \ 0.590784-0.988016I$	$-1.58761-1.75063I$	$3.91034+0.25504I$
$u=-0.013553+1.225120I$ $a=\ \ 1.212320+0.042368I$ $b=\ \ 1.27378+0.82533I$	$-1.17342-3.71954I$	$0.20565+7.01198I$
$u=-0.013553-1.225120I$ $a=\ \ 1.212320-0.042368I$ $b=\ \ 1.27378-0.82533I$	$-1.17342+3.71954I$	$0.20565-7.01198I$
$u=\ \ 0.123826+1.275680I$ $a=-0.494186-0.312606I$ $b=-0.56449+2.86824I$	$2.78952-5.37290I$	$1.47834+8.00232I$
$u=\ \ 0.123826-1.275680I$ $a=-0.494186+0.312606I$ $b=-0.56449-2.86824I$	$2.78952+5.37290I$	$1.47834-8.00232I$
$u=-0.128745+0.658998I$ $a=-1.85503+0.55800I$ $b=-0.278888-0.794541I$	$-3.42166+4.09475I$	$-4.31370-4.86850I$
$u=-0.128745-0.658998I$ $a=-1.85503-0.55800I$ $b=-0.278888+0.794541I$	$-3.42166-4.09475I$	$-4.31370+4.86850I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.112895+1.380490I$ $a=\ \ 0.309357+0.971465I$ $b=-0.317626-0.556721I$	$6.97273+1.35437I$	$-1.04092-3.37423I$
$u=-0.112895-1.380490I$ $a=\ \ 0.309357-0.971465I$ $b=-0.317626+0.556721I$	$6.97273-1.35437I$	$-1.04092+3.37423I$
$u=-0.27617+1.46327I$ $a=-0.729976+0.560596I$ $b=-1.12516-1.66255I$	$3.59220+7.81356I$	$0.86440-5.38907I$
$u=-0.27617-1.46327I$ $a=-0.729976-0.560596I$ $b=-1.12516+1.66255I$	$3.59220-7.81356I$	$0.86440+5.38907I$
$u=\ \ 0.203505+0.446592I$ $a=\ \ 1.330970+0.269712I$ $b=\ \ 0.18876-1.94856I$	$-0.18250+4.08169I$	$-4.19142-1.98059I$
$u=\ \ 0.203505-0.446592I$ $a=\ \ 1.330970-0.269712I$ $b=\ \ 0.18876+1.94856I$	$-0.18250-4.08169I$	$-4.19142+1.98059I$
$u=-0.06627+1.60382I$ $a=\ \ 0.298071+0.037730I$ $b=-0.184580-0.575875I$	$7.68023+3.97321I$	$-3.79021-7.05784I$
$u=-0.06627-1.60382I$ $a=\ \ 0.298071-0.037730I$ $b=-0.184580+0.575875I$	$7.68023-3.97321I$	$-3.79021+7.05784I$
$u=-0.250170$ $a=\ \ 5.09620$ $b=-0.247831$	2.26413	-32.7630

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{19}+u^{18}+\cdots+4u^2-1)(u^{93}-4u^{92}+\cdots-31u-1)$
c_2	$(u^{19}-4u^{17}+\cdots-u-1)(u^{93}-u^{92}+\cdots-16u^2-1)$
c_3, c_4	$(u^{19}+4u^{18}+\cdots+6u+1)(u^{93}+3u^{92}+\cdots+35u-1)$
c_5	$(u^{19}+u^{18}+\cdots-3u-1)(u^{93}-2u^{92}+\cdots-55u^2+5)$
c_6	$(u^{19}-2u^{18}+\cdots+4u+7)(u^{93}-u^{92}+\cdots+1077u-389)$
c_7	$(u^{19}+6u^{18}+\cdots+3u+1)(u^{93}-5u^{92}+\cdots-780u-145)$
c_8	$(u^{19}-3u^{18}+\cdots-u^2-1)(u^{93}+6u^{92}+\cdots-15u-1)$
c_9	$(u^{19}-3u^{17}+\cdots-8u-7)(u^{93}+u^{92}+\cdots+200551u-22691)$
c_{10}	$(u^{19}-6u^{18}+\cdots+3u-1)(u^{93}-5u^{92}+\cdots-780u-145)$
c_{11}	$(u^{19}-4u^{18}+\cdots+6u-1)(u^{93}+3u^{92}+\cdots+35u-1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{19}-9y^{18}+\cdots+8y-1)(y^{93}-8y^{92}+\cdots+187y-1)$
c_2	$(y^{19}-8y^{18}+\cdots+9y-1)(y^{93}-3y^{92}+\cdots-32y-1)$
c_3, c_4, c_{11}	$(y^{19}+20y^{18}+\cdots+2y-1)(y^{93}+89y^{92}+\cdots+865y-1)$
c_5	$(y^{19}+5y^{18}+\cdots+3y-1)(y^{93}-2y^{92}+\cdots+550y-25)$
c_6	$(y^{19}+6y^{18}+\cdots+184y-49)$ $\cdot(y^{93}-y^{92}+\cdots+10281979y-151321)$
c_7, c_{10}	$(y^{19}+10y^{18}+\cdots-19y-1)(y^{93}+47y^{92}+\cdots-487800y-21025)$
c_8	$(y^{19}-5y^{18}+\cdots-2y-1)(y^{93}+82y^{91}+\cdots-11y-1)$
c_9	$(y^{19}-6y^{18}+\cdots+190y-49)$ $\cdot(y^{93}+11y^{92}+\cdots-8110309523y-514881481)$