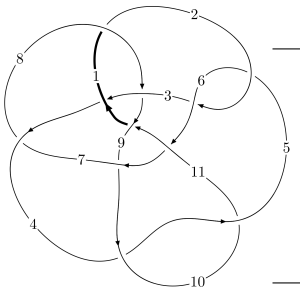
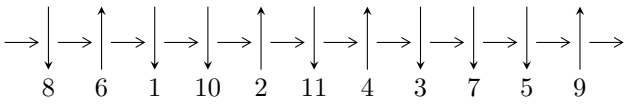
$11a_{284}$ $(K11a_{284})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned}
I_1^u = \langle & 8.01393 \times 10^{364} u^{114} - 1.89641 \times 10^{365} u^{113} + \cdots + 4.40356 \times 10^{365} b + 5.35492 \times 10^{365}, \\
& 1.14023 \times 10^{366} u^{114} - 2.02274 \times 10^{366} u^{113} + \cdots + 4.40356 \times 10^{365} a + 1.61754 \times 10^{366}, \\
& 2u^{115} - 3u^{114} + \cdots + 3u + 1 \rangle \\
I_2^u = \langle & -43367178772 u^{25} - 89820581776 u^{24} + \cdots + 434125229 b - 45968805245, \\
& 342690500382 u^{25} + 664891502229 u^{24} + \cdots + 434125229 a + 318033048822, \\
& 2u^{26} + 5u^{25} + \cdots + 2u + 1 \rangle
\end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 141 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. $\boldsymbol{I_1^u = \langle 8.01 \times 10^{364} u^{114} - 1.90 \times 10^{365} u^{113} + \cdots + 4.40 \times 10^{365} b + 5.35 \times 10^{365},\ 1.14 \times 10^{366} u^{114} - 2.02 \times 10^{366} u^{113} + \cdots + 4.40 \times 10^{365} a + 1.62 \times 10^{366},\ 2u^{115} - 3u^{114} + \cdots + 3u + 1 \rangle}$

(i) Arc colorings

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

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

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

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

$$a_{10} = \begin{pmatrix} -2.58933u^{114} + 4.59342u^{113} + \cdots + 5.12660u - 3.67325 \\ -0.181987u^{114} + 0.430653u^{113} + \cdots + 0.643336u - 1.21604 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2.40734u^{114} + 4.16276u^{113} + \cdots + 4.48327u - 2.45721 \\ -0.181987u^{114} + 0.430653u^{113} + \cdots + 0.643336u - 1.21604 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1.91206u^{114} - 1.72299u^{113} + \cdots - 9.03111u + 4.62584 \\ 0.201241u^{114} - 0.542418u^{113} + \cdots - 1.10941u + 1.75199 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -2.44462u^{114} + 4.40973u^{113} + \cdots + 4.60015u - 4.22398 \\ 0.0838673u^{114} + 0.135176u^{113} + \cdots + 0.567897u - 1.51108 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -1.41907u^{114} + 1.72105u^{113} + \cdots + 0.421963u + 0.961382 \\ -0.913213u^{114} + 1.18685u^{113} + \cdots - 2.35761u - 1.04960 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -3.24528u^{114} + 5.68590u^{113} + \cdots - 4.48017u + 0.758121 \\ -0.980130u^{114} + 1.88688u^{113} + \cdots - 7.48383u - 0.0115047 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -1.45747u^{114} + 1.79427u^{113} + \cdots + 0.811536u + 0.994149 \\ -0.952007u^{114} + 1.26219u^{113} + \cdots - 1.96378u - 1.00902 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -1.45747u^{114} + 1.79427u^{113} + \cdots + 0.811536u + 0.994149 \\ -0.952007u^{114} + 1.26219u^{113} + \cdots - 1.96378u - 1.00902 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -6.75068u^{114} + 11.5616u^{113} + \cdots + 31.7925u - 17.7512$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$2(2u^{115}+9u^{114}+\cdots+2406u-767)$
c_2, c_5	$2(2u^{115}+3u^{114}+\cdots+3u-1)$
c_3	$u^{115}-9u^{114}+\cdots-4u+1$
c_4, c_{10}	$u^{115}-2u^{114}+\cdots-3876u-1201$
c_6	$u^{115}-13u^{113}+\cdots+85279u-38788$
c_7	$u^{115}-4u^{114}+\cdots+11570253u+823526$
c_8	$2(2u^{115}-u^{114}+\cdots+114u-7)$
c_9	$4(4u^{115}+57u^{114}+\cdots+15305u+10639)$
c_{11}	$u^{115}+9u^{114}+\cdots-183323u-19982$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$4(4y^{115} - 105y^{114} + \cdots + 3.50821 \times 10^7 y - 588289)$
c_2, c_5	$4(4y^{115} - 237y^{114} + \cdots + 27y - 1)$
c_3	$y^{115} - 11y^{114} + \cdots + 180y - 1$
c_4, c_{10}	$y^{115} - 76y^{114} + \cdots + 36617356y - 1442401$
c_6	$y^{115} - 26y^{114} + \cdots + 89633162793y - 1504508944$
c_7	$y^{115} + 54y^{114} + \cdots - 20235629660847y - 678195072676$
c_8	$4(4y^{115} - 61y^{114} + \cdots + 886y - 49)$
c_9	$16(16y^{115} - 537y^{114} + \cdots + 2.20403 \times 10^9 y - 1.13188 \times 10^8)$
c_{11}	$y^{115} + 23y^{114} + \cdots - 4932760351y - 399280324$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.277056 + 0.964479I$ $a = 0.706133 - 0.696038I$ $b = -0.012508 - 0.954942I$	$-2.71019 - 7.23222I$	0
$u = 0.277056 - 0.964479I$ $a = 0.706133 + 0.696038I$ $b = -0.012508 + 0.954942I$	$-2.71019 + 7.23222I$	0
$u = -0.908890 + 0.404160I$ $a = -0.531374 + 0.507711I$ $b = 0.234098 - 1.101470I$	$-0.68914 - 3.66478I$	0
$u = -0.908890 - 0.404160I$ $a = -0.531374 - 0.507711I$ $b = 0.234098 + 1.101470I$	$-0.68914 + 3.66478I$	0
$u = 0.942155 + 0.291334I$ $a = 0.165857 - 0.990733I$ $b = 0.367774 + 0.043771I$	$-0.79505 + 2.96219I$	0
$u = 0.942155 - 0.291334I$ $a = 0.165857 + 0.990733I$ $b = 0.367774 - 0.043771I$	$-0.79505 - 2.96219I$	0
$u = 0.942618 + 0.396862I$ $a = -0.735978 - 1.143230I$ $b = -0.225514 + 0.606525I$	$0.84959 + 4.92469I$	0
$u = 0.942618 - 0.396862I$ $a = -0.735978 + 1.143230I$ $b = -0.225514 - 0.606525I$	$0.84959 - 4.92469I$	0
$u = 0.891020 + 0.378810I$ $a = -1.198140 + 0.077601I$ $b = 0.18102 + 1.75461I$	$3.53196 + 1.57888I$	0
$u = 0.891020 - 0.378810I$ $a = -1.198140 - 0.077601I$ $b = 0.18102 - 1.75461I$	$3.53196 - 1.57888I$	0

	Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=$	$0.026164+1.033040I$		
$a=$	$0.790749+0.473570I$	$-2.97182-2.03893I$	0
$b=$	$0.078049+0.552303I$		
$u=$	$0.026164-1.033040I$		
$a=$	$0.790749-0.473570I$	$-2.97182+2.03893I$	0
$b=$	$0.078049-0.552303I$		
$u=$	$-0.076207+1.035040I$		
$a=$	$-1.56149-0.68640I$	$-6.14019-0.62684I$	0
$b=$	$-1.106940-0.106044I$		
$u=$	$-0.076207-1.035040I$		
$a=$	$-1.56149+0.68640I$	$-6.14019+0.62684I$	0
$b=$	$-1.106940+0.106044I$		
$u=$	$0.994808+0.352312I$		
$a=$	$2.25386+0.31135I$	$-4.35240-0.58562I$	0
$b=$	$1.43105+0.02510I$		
$u=$	$0.994808-0.352312I$		
$a=$	$2.25386-0.31135I$	$-4.35240+0.58562I$	0
$b=$	$1.43105-0.02510I$		
$u=$	$-0.970256+0.418610I$		
$a=$	$-0.105755+0.727504I$	$1.62964-5.18438I$	0
$b=$	$0.582607-0.698925I$		
$u=$	$-0.970256-0.418610I$		
$a=$	$-0.105755-0.727504I$	$1.62964+5.18438I$	0
$b=$	$0.582607+0.698925I$		
$u=$	$1.045430+0.257801I$		
$a=$	$0.215650+0.460106I$	$0.06859-2.68945I$	0
$b=$	$0.954355+0.617889I$		
$u=$	$1.045430-0.257801I$		
$a=$	$0.215650-0.460106I$	$0.06859+2.68945I$	0
$b=$	$0.954355-0.617889I$		

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.025960+0.334961I$ $a=\ \ 0.520385-0.208896I$ $b=-0.443788+0.795349I$	$1.83286-0.68624I$	0
$u=-1.025960-0.334961I$ $a=\ \ 0.520385+0.208896I$ $b=-0.443788-0.795349I$	$1.83286+0.68624I$	0
$u=\ \ 0.319245+0.857302I$ $a=-1.28065-0.87510I$ $b=-1.232710-0.278290I$	$-6.29691-0.61776I$	0
$u=\ \ 0.319245-0.857302I$ $a=-1.28065+0.87510I$ $b=-1.232710+0.278290I$	$-6.29691+0.61776I$	0
$u=-0.837208+0.344102I$ $a=-0.211714+0.160387I$ $b=\ \ 0.286543-1.076000I$	$-1.021760+0.432243I$	0
$u=-0.837208-0.344102I$ $a=-0.211714-0.160387I$ $b=\ \ 0.286543+1.076000I$	$-1.021760-0.432243I$	0
$u=-0.980180+0.512170I$ $a=\ \ 1.181770-0.585912I$ $b=\ \ 1.63914-0.48297I$	$-5.24071-6.02921I$	0
$u=-0.980180-0.512170I$ $a=\ \ 1.181770+0.585912I$ $b=\ \ 1.63914+0.48297I$	$-5.24071+6.02921I$	0
$u=-1.029940+0.440301I$ $a=\ \ 2.94694-0.59942I$ $b=\ \ 1.273150+0.109754I$	$-3.69644-8.07570I$	0
$u=-1.029940-0.440301I$ $a=\ \ 2.94694+0.59942I$ $b=\ \ 1.273150-0.109754I$	$-3.69644+8.07570I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.432423 + 0.738791I$ $a = 1.48403 + 0.15123I$ $b = 0.985307 + 0.117780I$	$-1.77940 - 0.62020I$	0
$u = 0.432423 - 0.738791I$ $a = 1.48403 - 0.15123I$ $b = 0.985307 - 0.117780I$	$-1.77940 + 0.62020I$	0
$u = 1.139270 + 0.116928I$ $a = -0.663392 - 0.622278I$ $b = -0.519165 + 0.876104I$	$5.59609 + 3.00304I$	0
$u = 1.139270 - 0.116928I$ $a = -0.663392 + 0.622278I$ $b = -0.519165 - 0.876104I$	$5.59609 - 3.00304I$	0
$u = -1.026960 + 0.509938I$ $a = 0.0084466 + 0.0751284I$ $b = -0.319706 + 0.582678I$	$1.61019 - 1.66229I$	0
$u = -1.026960 - 0.509938I$ $a = 0.0084466 - 0.0751284I$ $b = -0.319706 - 0.582678I$	$1.61019 + 1.66229I$	0
$u = -0.952977 + 0.652216I$ $a = 1.265820 - 0.119057I$ $b = 0.530189 + 0.955205I$	$1.66491 - 3.01542I$	0
$u = -0.952977 - 0.652216I$ $a = 1.265820 + 0.119057I$ $b = 0.530189 - 0.955205I$	$1.66491 + 3.01542I$	0
$u = 0.901119 + 0.728319I$ $a = -1.78543 - 0.98734I$ $b = -0.959244 + 0.232094I$	$0.02959 + 5.02048I$	0
$u = 0.901119 - 0.728319I$ $a = -1.78543 + 0.98734I$ $b = -0.959244 - 0.232094I$	$0.02959 - 5.02048I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.996500 + 0.598952I$ $a = 1.90335 + 0.84290I$ $b = 1.026090 - 0.139218I$	$0.539034 + 0.195029I$	0
$u = 0.996500 - 0.598952I$ $a = 1.90335 - 0.84290I$ $b = 1.026090 + 0.139218I$	$0.539034 - 0.195029I$	0
$u = 1.009810 + 0.586510I$ $a = 1.44668 + 0.17928I$ $b = 1.45521 + 0.41254I$	$-4.55954 - 1.63755I$	0
$u = 1.009810 - 0.586510I$ $a = 1.44668 - 0.17928I$ $b = 1.45521 - 0.41254I$	$-4.55954 + 1.63755I$	0
$u = -0.657321 + 0.497457I$ $a = -1.36096 + 2.29044I$ $b = -1.31460 - 0.61425I$	$-6.27820 + 1.86688I$	0
$u = -0.657321 - 0.497457I$ $a = -1.36096 - 2.29044I$ $b = -1.31460 + 0.61425I$	$-6.27820 - 1.86688I$	0
$u = 0.617586 + 0.530780I$ $a = -1.20097 - 2.56010I$ $b = -1.172710 + 0.567648I$	$-5.80540 + 6.12206I$	0
$u = 0.617586 - 0.530780I$ $a = -1.20097 + 2.56010I$ $b = -1.172710 - 0.567648I$	$-5.80540 - 6.12206I$	0
$u = -1.066550 + 0.540453I$ $a = 1.52291 - 1.24350I$ $b = 1.53256 + 0.61309I$	$-1.61279 - 9.53611I$	0
$u = -1.066550 - 0.540453I$ $a = 1.52291 + 1.24350I$ $b = 1.53256 - 0.61309I$	$-1.61279 + 9.53611I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.074800 + 0.576384I$ $a = -1.29525 - 1.11381I$ $b = -1.024400 + 0.478941I$	$0.12708 + 5.59619I$	0
$u = 1.074800 - 0.576384I$ $a = -1.29525 + 1.11381I$ $b = -1.024400 - 0.478941I$	$0.12708 - 5.59619I$	0
$u = -1.115780 + 0.517441I$ $a = 1.12411 - 1.57039I$ $b = 1.38682 + 0.39595I$	$-4.21702 - 8.99203I$	0
$u = -1.115780 - 0.517441I$ $a = 1.12411 + 1.57039I$ $b = 1.38682 - 0.39595I$	$-4.21702 + 8.99203I$	0
$u = 0.686559 + 0.311613I$ $a = -0.94871 - 4.29143I$ $b = -1.122020 - 0.035704I$	$-5.49191 + 3.64527I$	$-9.06683 - 6.94235I$
$u = 0.686559 - 0.311613I$ $a = -0.94871 + 4.29143I$ $b = -1.122020 + 0.035704I$	$-5.49191 - 3.64527I$	$-9.06683 + 6.94235I$
$u = 1.089430 + 0.608012I$ $a = 1.26838 + 0.82385I$ $b = 1.32127 - 0.65726I$	$-4.19786 + 5.91313I$	0
$u = 1.089430 - 0.608012I$ $a = 1.26838 - 0.82385I$ $b = 1.32127 + 0.65726I$	$-4.19786 - 5.91313I$	0
$u = -1.129690 + 0.536597I$ $a = 1.14701 - 1.73795I$ $b = 1.146100 + 0.150850I$	$-3.21433 - 4.24659I$	0
$u = -1.129690 - 0.536597I$ $a = 1.14701 + 1.73795I$ $b = 1.146100 - 0.150850I$	$-3.21433 + 4.24659I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.144960 + 0.514723I$ $a = 0.41311 + 1.62293I$ $b = 1.010130 - 0.380651I$	$0.30874 + 9.37379I$	0
$u = 1.144960 - 0.514723I$ $a = 0.41311 - 1.62293I$ $b = 1.010130 + 0.380651I$	$0.30874 - 9.37379I$	0
$u = 1.127540 + 0.552120I$ $a = 0.98442 + 1.17879I$ $b = 1.30808 - 0.59816I$	$-4.13667 + 9.74502I$	0
$u = 1.127540 - 0.552120I$ $a = 0.98442 - 1.17879I$ $b = 1.30808 + 0.59816I$	$-4.13667 - 9.74502I$	0
$u = -0.652758 + 0.344605I$ $a = -1.94268 + 4.67592I$ $b = -1.034360 + 0.088071I$	$-5.06782 + 4.62329I$	$-8.69727 + 0.I$
$u = -0.652758 - 0.344605I$ $a = -1.94268 - 4.67592I$ $b = -1.034360 - 0.088071I$	$-5.06782 - 4.62329I$	$-8.69727 + 0.I$
$u = -1.226310 + 0.314487I$ $a = -0.267412 + 0.022660I$ $b = 0.780035 - 0.054648I$	$1.53749 + 0.92367I$	0
$u = -1.226310 - 0.314487I$ $a = -0.267412 - 0.022660I$ $b = 0.780035 + 0.054648I$	$1.53749 - 0.92367I$	0
$u = -0.656244 + 0.319907I$ $a = 0.526772 + 0.664365I$ $b = -0.134878 - 0.614359I$	$0.63327 + 1.84453I$	$0. - 4.92506I$
$u = -0.656244 - 0.319907I$ $a = 0.526772 - 0.664365I$ $b = -0.134878 + 0.614359I$	$0.63327 - 1.84453I$	$0. + 4.92506I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.487352+1.187960I$ $a=\ \ 1.59853-0.36682I$ $b=\ \ 1.324590-0.489779I$	$-6.8504+12.4320I$	0
$u=-0.487352-1.187960I$ $a=\ \ 1.59853+0.36682I$ $b=\ \ 1.324590+0.489779I$	$-6.8504-12.4320I$	0
$u=-1.281650+0.133666I$ $a=-0.293050+0.507280I$ $b=-0.982358-0.491043I$	$4.07307-1.94826I$	0
$u=-1.281650-0.133666I$ $a=-0.293050-0.507280I$ $b=-0.982358+0.491043I$	$4.07307+1.94826I$	0
$u=\ \ 0.082739+0.705349I$ $a=-0.647035+0.485897I$ $b=-1.111110-0.194979I$	$-2.52539-4.84612I$	$-5.51959+6.84426I$
$u=\ \ 0.082739-0.705349I$ $a=-0.647035-0.485897I$ $b=-1.111110+0.194979I$	$-2.52539+4.84612I$	$-5.51959-6.84426I$
$u=-0.426759+0.541501I$ $a=-1.86488+1.32381I$ $b=-1.44936+0.36569I$	$-3.47686+5.05598I$	$-4.55066-7.76927I$
$u=-0.426759-0.541501I$ $a=-1.86488-1.32381I$ $b=-1.44936-0.36569I$	$-3.47686-5.05598I$	$-4.55066+7.76927I$
$u=\ \ 0.627214+0.284968I$ $a=\ \ 1.117560-0.278719I$ $b=\ \ 0.345587-0.027787I$	$-1.369570-0.113618I$	$-10.02289-1.25200I$
$u=\ \ 0.627214-0.284968I$ $a=\ \ 1.117560+0.278719I$ $b=\ \ 0.345587+0.027787I$	$-1.369570+0.113618I$	$-10.02289+1.25200I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.187654 + 0.641912I$ $a = -1.33995 - 0.46273I$ $b = -1.362680 - 0.322519I$	$-6.65120 - 5.03845I$	$-13.3143 + 5.2572I$
$u = 0.187654 - 0.641912I$ $a = -1.33995 + 0.46273I$ $b = -1.362680 + 0.322519I$	$-6.65120 + 5.03845I$	$-13.3143 - 5.2572I$
$u = 1.188210 + 0.612878I$ $a = 0.566014 - 0.106486I$ $b = -0.004590 - 1.259350I$	$0.03533 + 12.87640I$	0
$u = 1.188210 - 0.612878I$ $a = 0.566014 + 0.106486I$ $b = -0.004590 + 1.259350I$	$0.03533 - 12.87640I$	0
$u = -0.500222 + 0.416805I$ $a = 0.692054 + 0.382242I$ $b = -0.011643 + 0.668932I$	$1.05915 - 1.57001I$	$1.42915 + 4.50979I$
$u = -0.500222 - 0.416805I$ $a = 0.692054 - 0.382242I$ $b = -0.011643 - 0.668932I$	$1.05915 + 1.57001I$	$1.42915 - 4.50979I$
$u = 1.235600 + 0.580995I$ $a = -0.419143 + 0.131296I$ $b = -0.133252 - 0.192188I$	$0.60271 + 7.63366I$	0
$u = 1.235600 - 0.580995I$ $a = -0.419143 - 0.131296I$ $b = -0.133252 + 0.192188I$	$0.60271 - 7.63366I$	0
$u = -1.42233 + 0.06593I$ $a = -0.629358 + 0.145610I$ $b = -0.510605 - 0.872391I$	$3.47321 + 3.16840I$	0
$u = -1.42233 - 0.06593I$ $a = -0.629358 - 0.145610I$ $b = -0.510605 + 0.872391I$	$3.47321 - 3.16840I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.24469+0.71962I$ $a=\ \ 0.441894+0.335592I$ $b=-0.062709+1.257770I$	$0.87832-4.34613I$	0
$u=-1.24469-0.71962I$ $a=\ \ 0.441894-0.335592I$ $b=-0.062709-1.257770I$	$0.87832+4.34613I$	0
$u=-1.23597+0.74398I$ $a=-1.53824+1.00481I$ $b=-1.40743-0.58100I$	$-4.4085-19.2643I$	0
$u=-1.23597-0.74398I$ $a=-1.53824-1.00481I$ $b=-1.40743+0.58100I$	$-4.4085+19.2643I$	0
$u=\ \ 1.23577+0.83026I$ $a=-1.67688-0.91218I$ $b=-1.39446+0.56738I$	$-3.46118+10.67000I$	0
$u=\ \ 1.23577-0.83026I$ $a=-1.67688+0.91218I$ $b=-1.39446-0.56738I$	$-3.46118-10.67000I$	0
$u=-1.36252+0.61428I$ $a=\ \ 0.687546-0.708602I$ $b=\ \ 1.035290-0.037346I$	$-2.68146+0.59329I$	0
$u=-1.36252-0.61428I$ $a=\ \ 0.687546+0.708602I$ $b=\ \ 1.035290+0.037346I$	$-2.68146-0.59329I$	0
$u=-0.005305+0.476611I$ $a=-2.02527-0.46727I$ $b=-1.42361+0.20245I$	$-6.76597+4.72878I$	$-14.6888-8.1121I$
$u=-0.005305-0.476611I$ $a=-2.02527+0.46727I$ $b=-1.42361-0.20245I$	$-6.76597-4.72878I$	$-14.6888+8.1121I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.22319+0.92378I$ $a=-1.35375+0.60521I$ $b=-1.163110-0.215218I$	$-2.40903-9.64189I$	0
$u=-1.22319-0.92378I$ $a=-1.35375-0.60521I$ $b=-1.163110+0.215218I$	$-2.40903+9.64189I$	0
$u=1.54481+0.22798I$ $a=-0.651960-0.224874I$ $b=-0.973927+0.511293I$	$1.97163+8.25765I$	0
$u=1.54481-0.22798I$ $a=-0.651960+0.224874I$ $b=-0.973927-0.511293I$	$1.97163-8.25765I$	0
$u=0.350231+0.117341I$ $a=-3.24395-2.60965I$ $b=-1.273060+0.287079I$	$-2.97685+5.07858I$	$-2.94848-5.55455I$
$u=0.350231-0.117341I$ $a=-3.24395+2.60965I$ $b=-1.273060-0.287079I$	$-2.97685-5.07858I$	$-2.94848+5.55455I$
$u=0.76967+1.46166I$ $a=1.61644+0.51632I$ $b=1.30419+0.62684I$	$-5.39735-2.89988I$	0
$u=0.76967-1.46166I$ $a=1.61644-0.51632I$ $b=1.30419-0.62684I$	$-5.39735+2.89988I$	0
$u=0.103712+0.325016I$ $a=1.048460+0.308863I$ $b=0.411316+0.582022I$	$-0.82600-1.86825I$	$-3.74526+4.03129I$
$u=0.103712-0.325016I$ $a=1.048460-0.308863I$ $b=0.411316-0.582022I$	$-0.82600+1.86825I$	$-3.74526-4.03129I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.320685$ $a=-5.71656$ $b=-1.31890$	-6.33944	-15.0270
$u=-0.171180+0.162099I$ $a=-3.35775-0.25779I$ $b=-1.44383+0.21091I$	$-6.77311+4.75588I$	$-19.9085-9.7356I$
$u=-0.171180-0.162099I$ $a=-3.35775+0.25779I$ $b=-1.44383-0.21091I$	$-6.77311-4.75588I$	$-19.9085+9.7356I$
$u=\ 1.60063+0.75570I$ $a=\ 0.844548+0.288371I$ $b=\ 1.059200-0.052066I$	$-3.06735-0.13431I$	0
$u=\ 1.60063-0.75570I$ $a=\ 0.844548-0.288371I$ $b=\ 1.059200+0.052066I$	$-3.06735+0.13431I$	0

II.

$\boldsymbol{I_2^u = \langle -4.34\times 10^{10}u^{25} - 8.98\times 10^{10}u^{24} + \cdots + 4.34\times 10^{8}b - 4.60\times 10^{10},\ 3.43\times 10^{11}u^{25} + 6.65\times 10^{11}u^{24} + \cdots + 4.34\times 10^{8}a + 3.18\times 10^{11},\ 2u^{26} + 5u^{25} + \cdots + 2u + 1\rangle}$

(i) Arc colorings

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

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

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

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

$$a_{10} = \begin{pmatrix} -789.382u^{25} - 1531.57u^{24} + \cdots - 166.336u - 732.584 \\ 99.8956u^{25} + 206.900u^{24} + \cdots - 12.0546u + 105.888 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -889.277u^{25} - 1738.47u^{24} + \cdots - 154.281u - 838.472 \\ 99.8956u^{25} + 206.900u^{24} + \cdots - 12.0546u + 105.888 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1089.88u^{25} - 2170.25u^{24} + \cdots - 83.3611u - 1072.30 \\ -184.845u^{25} - 361.195u^{24} + \cdots - 24.6461u - 185.378 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 839.937u^{25} + 1634.70u^{24} + \cdots + 151.208u + 805.888 \\ -86.3655u^{25} - 168.823u^{24} + \cdots - 24.4333u - 70.7374 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 294.041u^{25} + 583.709u^{24} + \cdots + 37.1847u + 276.790 \\ 96.0246u^{25} + 182.005u^{24} + \cdots + 56.2578u + 71.6843 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -556.213u^{25} - 1098.55u^{24} + \cdots - 40.4201u - 554.483 \\ -57.3599u^{25} - 120.352u^{24} + \cdots + 20.0025u - 66.6879 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 316.114u^{25} + 626.661u^{24} + \cdots + 32.0322u + 303.826 \\ 115.563u^{25} + 221.890u^{24} + \cdots + 49.9128u + 92.6057 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 316.114u^{25} + 626.661u^{24} + \cdots + 32.0322u + 303.826 \\ 115.563u^{25} + 221.890u^{24} + \cdots + 49.9128u + 92.6057 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{420140152888}{434125229}u^{25} + \frac{17210401346}{9236707}u^{24} + \cdots + \frac{91899682153}{434125229}u + \frac{357966565160}{434125229}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$2(2u^{26} - 3u^{25} + \cdots + 5u + 1)$
c_2	$2(2u^{26} - 5u^{25} + \cdots - 2u + 1)$
c_3	$u^{26} + 2u^{25} + \cdots - 5u - 1$
c_4	$u^{26} + 3u^{25} + \cdots - 5u - 1$
c_5	$2(2u^{26} + 5u^{25} + \cdots + 2u + 1)$
c_6	$u^{26} + u^{25} + \cdots + 57u + 28$
c_7	$u^{26} - u^{25} + \cdots + 21u + 2$
c_8	$2(2u^{26} + u^{25} + \cdots - 7u - 1)$
c_9	$4(4u^{26} + 61u^{25} + \cdots + 12u + 1)$
c_{10}	$u^{26} - 3u^{25} + \cdots + 5u - 1$
c_{11}	$u^{26} - 4u^{25} + \cdots - 17u - 2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$4(4y^{26} - 69y^{25} + \cdots - 7y + 1)$
c_2, c_5	$4(4y^{26} - 73y^{25} + \cdots - 30y + 1)$
c_3	$y^{26} + 2y^{25} + \cdots - 3y + 1$
c_4, c_{10}	$y^{26} - 15y^{25} + \cdots + y + 1$
c_6	$y^{26} - 9y^{25} + \cdots - 9857y + 784$
c_7	$y^{26} + 15y^{25} + \cdots - 53y + 4$
c_8	$4(4y^{26} - 41y^{25} + \cdots - 17y + 1)$
c_9	$16(16y^{26} - 553y^{25} + \cdots - 32y + 1)$
c_{11}	$y^{26} - 4y^{25} + \cdots - 429y + 4$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.902413+0.348607I$ $a=\ \ 1.203380+0.011175I$ $b=-0.11363+1.63639I$	$3.68864-1.45554I$	$15.4501-9.8201I$
$u=-0.902413-0.348607I$ $a=\ \ 1.203380-0.011175I$ $b=-0.11363-1.63639I$	$3.68864+1.45554I$	$15.4501+9.8201I$
$u=\ \ 0.833318+0.441423I$ $a=-0.815159-1.009730I$ $b=\ \ 0.144725+0.492800I$	$1.07549+4.08283I$	$0.16567-2.93988I$
$u=\ \ 0.833318-0.441423I$ $a=-0.815159+1.009730I$ $b=\ \ 0.144725-0.492800I$	$1.07549-4.08283I$	$0.16567+2.93988I$
$u=-1.07468$ $a=-2.14679$ $b=-1.47023$	-4.89292	-14.4610
$u=\ \ 0.976675+0.535227I$ $a=-1.97969-0.62996I$ $b=-1.356160+0.095896I$	$-3.05153+7.14647I$	$-5.02875-6.53250I$
$u=\ \ 0.976675-0.535227I$ $a=-1.97969+0.62996I$ $b=-1.356160-0.095896I$	$-3.05153-7.14647I$	$-5.02875+6.53250I$
$u=\ \ 0.860993+0.166525I$ $a=\ \ 0.495992-0.119900I$ $b=\ \ 0.227577+0.672977I$	$-0.421435-1.186280I$	$-4.72479+2.80501I$
$u=\ \ 0.860993-0.166525I$ $a=\ \ 0.495992+0.119900I$ $b=\ \ 0.227577-0.672977I$	$-0.421435+1.186280I$	$-4.72479-2.80501I$
$u=\ \ 1.096990+0.334411I$ $a=\ \ 0.690701+0.359287I$ $b=-0.206182-0.192031I$	$2.42427-0.67930I$	$4.38910+2.66937I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.096990 - 0.334411I$ $a = 0.690701 - 0.359287I$ $b = -0.206182 + 0.192031I$	$2.42427 + 0.67930I$	$4.38910 - 2.66937I$
$u = 1.079770 + 0.566501I$ $a = -0.631354 - 0.211990I$ $b = -0.087210 + 0.961580I$	$1.16980 + 3.77509I$	$-2.33539 - 3.30863I$
$u = 1.079770 - 0.566501I$ $a = -0.631354 + 0.211990I$ $b = -0.087210 - 0.961580I$	$1.16980 - 3.77509I$	$-2.33539 + 3.30863I$
$u = -1.109630 + 0.577628I$ $a = 1.22405 - 1.33864I$ $b = 1.35649 + 0.51125I$	$-3.19455 - 8.83044I$	$-3.92140 + 6.56535I$
$u = -1.109630 - 0.577628I$ $a = 1.22405 + 1.33864I$ $b = 1.35649 - 0.51125I$	$-3.19455 + 8.83044I$	$-3.92140 - 6.56535I$
$u = -1.244540 + 0.593740I$ $a = -0.326614 + 0.803021I$ $b = -0.816237 - 0.239357I$	$-0.28328 - 8.29218I$	$-6.85575 + 7.14384I$
$u = -1.244540 - 0.593740I$ $a = -0.326614 - 0.803021I$ $b = -0.816237 + 0.239357I$	$-0.28328 + 8.29218I$	$-6.85575 - 7.14384I$
$u = 0.508749 + 0.173453I$ $a = 2.66319 + 4.04300I$ $b = 1.254260 - 0.252501I$	$-5.43384 - 2.60736I$	$-6.61005 + 1.10855I$
$u = 0.508749 - 0.173453I$ $a = 2.66319 - 4.04300I$ $b = 1.254260 + 0.252501I$	$-5.43384 + 2.60736I$	$-6.61005 - 1.10855I$
$u = -0.533548 + 0.021243I$ $a = 1.16611 - 5.64644I$ $b = 1.070490 + 0.296067I$	$-4.79002 - 5.38029I$	$-5.23955 + 8.87254I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.533548-0.021243I$ $a=\ \ 1.16611+5.64644I$ $b=\ \ 1.070490-0.296067I$	$-4.79002+5.38029I$	$-5.23955-8.87254I$
$u=-0.67080+1.33154I$ $a=-1.58711+0.44198I$ $b=-1.281620+0.541938I$	$-5.29738+2.79205I$	0
$u=-0.67080-1.33154I$ $a=-1.58711-0.44198I$ $b=-1.281620-0.541938I$	$-5.29738-2.79205I$	0
$u=-0.483281+0.104416I$ $a=-1.92146+0.25924I$ $b=-1.47927+0.22060I$	$-6.54530+4.65043I$	$9.47001+3.40221I$
$u=-0.483281-0.104416I$ $a=-1.92146-0.25924I$ $b=-1.47927-0.22060I$	$-6.54530-4.65043I$	$9.47001-3.40221I$
$u=-2.24990$ $a=\ \ 0.782694$ $b=\ \ 1.04378$	-3.13685	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$4(2u^{26}-3u^{25}+\cdots+5u+1)(2u^{115}+9u^{114}+\cdots+2406u-767)$
c_2	$4(2u^{26}-5u^{25}+\cdots-2u+1)(2u^{115}+3u^{114}+\cdots+3u-1)$
c_3	$(u^{26}+2u^{25}+\cdots-5u-1)(u^{115}-9u^{114}+\cdots-4u+1)$
c_4	$(u^{26}+3u^{25}+\cdots-5u-1)(u^{115}-2u^{114}+\cdots-3876u-1201)$
c_5	$4(2u^{26}+5u^{25}+\cdots+2u+1)(2u^{115}+3u^{114}+\cdots+3u-1)$
c_6	$(u^{26}+u^{25}+\cdots+57u+28)(u^{115}-13u^{113}+\cdots+85279u-38788)$
c_7	$(u^{26}-u^{25}+\cdots+21u+2)(u^{115}-4u^{114}+\cdots+1.15703\times10^{7}u+823526)$
c_8	$4(2u^{26}+u^{25}+\cdots-7u-1)(2u^{115}-u^{114}+\cdots+114u-7)$
c_9	$16(4u^{26}+61u^{25}+\cdots+12u+1)$ $\cdot(4u^{115}+57u^{114}+\cdots+15305u+10639)$
c_{10}	$(u^{26}-3u^{25}+\cdots+5u-1)(u^{115}-2u^{114}+\cdots-3876u-1201)$
c_{11}	$(u^{26}-4u^{25}+\cdots-17u-2)(u^{115}+9u^{114}+\cdots-183323u-19982)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$16(4y^{26}-69y^{25}+\cdots-7y+1)$ $\cdot(4y^{115}-105y^{114}+\cdots+35082100y-588289)$
c_2, c_5	$16(4y^{26}-73y^{25}+\cdots-30y+1)(4y^{115}-237y^{114}+\cdots+27y-1)$
c_3	$(y^{26}+2y^{25}+\cdots-3y+1)(y^{115}-11y^{114}+\cdots+180y-1)$
c_4, c_{10}	$(y^{26}-15y^{25}+\cdots+y+1)$ $\cdot(y^{115}-76y^{114}+\cdots+36617356y-1442401)$
c_6	$(y^{26}-9y^{25}+\cdots-9857y+784)$ $\cdot(y^{115}-26y^{114}+\cdots+89633162793y-1504508944)$
c_7	$(y^{26}+15y^{25}+\cdots-53y+4)$ $\cdot(y^{115}+54y^{114}+\cdots-20235629660847y-678195072676)$
c_8	$16(4y^{26}-41y^{25}+\cdots-17y+1)(4y^{115}-61y^{114}+\cdots+886y-49)$
c_9	$256(16y^{26}-553y^{25}+\cdots-32y+1)$ $\cdot(16y^{115}-537y^{114}+\cdots+2204032597y-113188321)$
c_{11}	$(y^{26}-4y^{25}+\cdots-429y+4)$ $\cdot(y^{115}+23y^{114}+\cdots-4932760351y-399280324)$