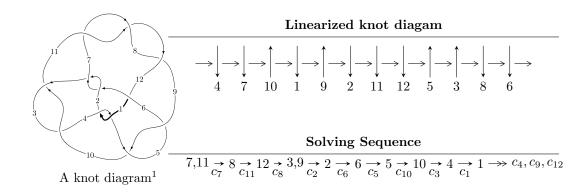
$12a_{1084} \ (K12a_{1084})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 5.41095 \times 10^{226} u^{98} - 5.69026 \times 10^{226} u^{97} + \dots + 5.42259 \times 10^{227} b - 1.90870 \times 10^{229}, \\ &- 2.17596 \times 10^{230} u^{98} + 3.39515 \times 10^{230} u^{97} + \dots + 5.43886 \times 10^{230} a + 4.44885 \times 10^{233}, \\ &u^{99} - 4 u^{98} + \dots + 2545 u + 1003 \rangle \\ I_2^u &= \langle 2996823 u^{26} + 3522809 u^{25} + \dots + 792677 b - 4094869, \\ &- 533686 u^{26} + 1883904 u^{25} + \dots + 792677 a + 5658204, \ u^{27} + 3 u^{26} + \dots + 5 u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 126 representations.

¹The 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.
$$I_1^u = \langle 5.41 \times 10^{226} u^{98} - 5.69 \times 10^{226} u^{97} + \dots + 5.42 \times 10^{227} b - 1.91 \times 10^{229}, \ -2.18 \times 10^{230} u^{98} + 3.40 \times 10^{230} u^{97} + \dots + 5.44 \times 10^{230} a + 4.45 \times 10^{233}, \ u^{99} - 4u^{98} + \dots + 2545 u + 1003 \rangle$$

(i) Arc colorings

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.400077u^{98} - 0.624239u^{97} + \cdots - 1633.59u - 817.975 \\ -0.0997853u^{98} + 0.104936u^{97} + \cdots + 340.396u + 35.1990 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.300292u^{98} - 0.519303u^{97} + \cdots - 1293.20u - 782.776 \\ -0.0997853u^{98} + 0.104936u^{97} + \cdots + 340.396u + 35.1990 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0548331u^{98} - 0.912289u^{97} + \cdots + 1474.97u + 778.578 \\ 0.0336398u^{98} - 0.236589u^{97} + \cdots + 237.616u + 235.987 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.0408862u^{98} - 1.05461u^{97} + \cdots + 1912.99u + 1025.59 \\ 0.0737455u^{98} - 0.370751u^{97} + \cdots + 271.358u + 328.673 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.695680u^{98} + 1.69937u^{97} + \cdots + 1342.50u + 887.962 \\ -0.590927u^{98} + 1.84609u^{97} + \cdots + 488.653u - 21.2569 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.75208u^{98} - 4.12027u^{97} + \cdots - 3777.53u - 756.930 \\ 1.86946u^{98} - 4.33276u^{97} + \cdots - 4177.35u - 1429.35 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 1.75093u^{98} - 3.19905u^{97} + \cdots - 6038.12u - 2076.45 \\ 0.485526u^{98} - 0.641300u^{97} + \cdots - 6038.12u - 2076.45 \\ 0.485526u^{98} - 0.641300u^{97} + \cdots - 2274.29u - 1238.76 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.887479u^{98} + 2.43148u^{97} + \cdots + 1143.39u + 1477.84$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{99} - 8u^{98} + \dots + 19u - 1$
c_2, c_6	$u^{99} - 2u^{98} + \dots - 21137u - 8401$
c_3, c_{10}	$u^{99} + u^{98} + \dots - 17146u - 20252$
c_5,c_9	$u^{99} - 3u^{98} + \dots - 1873u - 577$
c_7, c_8, c_{11}	$u^{99} + 4u^{98} + \dots + 2545u - 1003$
c_{12}	$u^{99} + 2u^{98} + \dots - 23310064u - 2254444$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{99} + 56y^{98} + \dots + 87y - 1$
c_{2}, c_{6}	$y^{99} - 80y^{98} + \dots - 692503643y - 70576801$
c_3, c_{10}	$y^{99} + 95y^{98} + \dots + 3720826236y - 410143504$
c_5, c_9	$y^{99} + 71y^{98} + \dots - 12786351y - 332929$
c_7, c_8, c_{11}	$y^{99} - 120y^{98} + \dots + 48189789y - 1006009$
c_{12}	$y^{99} - 42y^{98} + \dots + 169128066365000y - 5082517749136$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.671582 + 0.666153I		
a = -0.81851 - 1.26445I	-3.01360 - 7.08917I	0
b = 1.39390 + 0.42952I		
u = 0.671582 - 0.666153I		
a = -0.81851 + 1.26445I	-3.01360 + 7.08917I	0
b = 1.39390 - 0.42952I		
u = 0.625140 + 0.686233I		
a = 0.834216 + 0.986532I	-5.26496 - 2.40033I	0
b = -1.391950 - 0.146302I		
u = 0.625140 - 0.686233I		
a = 0.834216 - 0.986532I	-5.26496 + 2.40033I	0
b = -1.391950 + 0.146302I		
u = 0.422701 + 0.807441I		
a = -1.30778 - 0.63709I	-2.18481 + 2.18176I	0
b = 1.236250 - 0.119711I		
u = 0.422701 - 0.807441I		
a = -1.30778 + 0.63709I	-2.18481 - 2.18176I	0
b = 1.236250 + 0.119711I		
u = -0.896243 + 0.006019I		
a = -0.228443 + 0.713126I	1.52179 - 2.96179I	0
b = -0.836938 - 0.795713I		
u = -0.896243 - 0.006019I		
a = -0.228443 - 0.713126I	1.52179 + 2.96179I	0
b = -0.836938 + 0.795713I		
u = 0.561471 + 0.662733I		
a = 0.709135 + 1.118490I	-5.13995 - 2.31729I	0
b = -1.366860 - 0.093390I		
u = 0.561471 - 0.662733I		
a = 0.709135 - 1.118490I	-5.13995 + 2.31729I	0
b = -1.366860 + 0.093390I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.632131 + 0.587585I		
a = -0.128876 + 0.582565I	-4.62953 - 2.16317I	0
b = -1.121870 - 0.038053I		
u = 0.632131 - 0.587585I		
a = -0.128876 - 0.582565I	-4.62953 + 2.16317I	0
b = -1.121870 + 0.038053I		
u = 1.15287		
a = -0.329540	-2.39809	0
b = -0.490126		
u = -0.647182 + 0.484954I		
a = 0.81717 - 1.19305I	-5.31603 + 1.89708I	0
b = -0.064411 + 0.544461I		
u = -0.647182 - 0.484954I		
a = 0.81717 + 1.19305I	-5.31603 - 1.89708I	0
b = -0.064411 - 0.544461I		
u = -0.656533 + 0.429069I		
a = -0.31014 + 1.49332I	-2.21186 + 7.67640I	0
b = 0.055583 - 1.009320I		
u = -0.656533 - 0.429069I		
a = -0.31014 - 1.49332I	-2.21186 - 7.67640I	0
b = 0.055583 + 1.009320I		
u = -0.884666 + 0.838961I		
a = 0.548928 - 1.096780I	-6.8912 + 12.6306I	0
b = -1.38567 + 0.40064I		
u = -0.884666 - 0.838961I		
a = 0.548928 + 1.096780I	-6.8912 - 12.6306I	0
b = -1.38567 - 0.40064I		
u = 0.389722 + 0.629908I		
a = -0.832777 + 0.668407I	0.39264 - 3.39831I	0
b = 0.292539 - 0.596900I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.389722 - 0.629908I		
a = -0.832777 - 0.668407I	0.39264 + 3.39831I	0
b = 0.292539 + 0.596900I		
u = 0.459085 + 0.568866I		
a = -0.162137 + 0.715721I	-1.47108 + 3.63726I	0
b = 0.927472 - 0.541537I		
u = 0.459085 - 0.568866I		
a = -0.162137 - 0.715721I	-1.47108 - 3.63726I	0
b = 0.927472 + 0.541537I		
u = 0.565793 + 0.435926I		
a = 1.24415 - 1.19701I	-1.81044 - 7.03502I	0
b = 1.048280 + 0.361406I		
u = 0.565793 - 0.435926I		
a = 1.24415 + 1.19701I	-1.81044 + 7.03502I	0
b = 1.048280 - 0.361406I		
u = 0.509382 + 0.498338I		
a = 0.132878 - 1.139320I	-0.086668 - 0.470961I	0
b = 0.344177 + 0.527838I		
u = 0.509382 - 0.498338I		
a = 0.132878 + 1.139320I	-0.086668 + 0.470961I	0
b = 0.344177 - 0.527838I		
u = -0.232634 + 1.269800I		
a = 0.987311 - 0.040384I	-4.83968 - 6.00928I	0
b = -1.269770 - 0.132436I		
u = -0.232634 - 1.269800I		
a = 0.987311 + 0.040384I	-4.83968 + 6.00928I	0
b = -1.269770 + 0.132436I		
u = -0.626540 + 0.273548I		
a = 0.93551 - 2.09001I	-8.25997 + 1.73585I	0
b = -1.234250 + 0.462376I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.626540 - 0.273548I		
a = 0.93551 + 2.09001I	-8.25997 - 1.73585I	0
b = -1.234250 - 0.462376I		
u = -0.362556 + 0.575051I		
a = -1.68279 - 0.01512I	-1.23465 - 4.31084I	0
b = -0.143843 + 0.295187I		
u = -0.362556 - 0.575051I		
a = -1.68279 + 0.01512I	-1.23465 + 4.31084I	0
b = -0.143843 - 0.295187I		
u = 0.676867 + 0.044621I		
a = 0.94289 + 1.18081I	0.632736 + 0.678056I	0
b = 0.469702 + 0.239598I		
u = 0.676867 - 0.044621I		
a = 0.94289 - 1.18081I	0.632736 - 0.678056I	0
b = 0.469702 - 0.239598I		
u = -0.647432 + 0.189841I		
a = -0.72737 + 1.72532I	-7.01581 - 2.36185I	0
b = 1.49112 - 0.35700I		
u = -0.647432 - 0.189841I		
a = -0.72737 - 1.72532I	-7.01581 + 2.36185I	0
b = 1.49112 + 0.35700I		
u = 1.339350 + 0.111965I		
a = 0.148541 + 0.088908I	-1.48538 - 0.70299I	0
b = -0.442208 + 0.756719I		
u = 1.339350 - 0.111965I		
a = 0.148541 - 0.088908I	-1.48538 + 0.70299I	0
b = -0.442208 - 0.756719I		
u = -1.42141 + 0.18001I		
a = 0.259621 + 0.430934I	-6.11710 + 2.82126I	0
b = 0.296118 - 0.499010I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.42141 - 0.18001I		
a = 0.259621 - 0.430934I	-6.11710 - 2.82126I	0
b = 0.296118 + 0.499010I		
u = -0.502166 + 0.238090I		
a = -0.996833 - 0.817909I	2.03936 + 3.39507I	0.73878 - 7.34492I
b = -0.908820 + 0.518858I		
u = -0.502166 - 0.238090I		
a = -0.996833 + 0.817909I	2.03936 - 3.39507I	0.73878 + 7.34492I
b = -0.908820 - 0.518858I		
u = -0.486584 + 0.268353I		
a = 1.16169 - 3.08951I	-7.76651 + 0.21651I	-10.72357 + 1.56326I
b = -1.136470 - 0.000745I		
u = -0.486584 - 0.268353I		
a = 1.16169 + 3.08951I	-7.76651 - 0.21651I	-10.72357 - 1.56326I
b = -1.136470 + 0.000745I		
u = -1.44027 + 0.22382I		
a = -0.490873 - 0.025787I	-5.48236 + 6.48741I	0
b = 0.225206 + 0.508462I		
u = -1.44027 - 0.22382I		
a = -0.490873 + 0.025787I	-5.48236 - 6.48741I	0
b = 0.225206 - 0.508462I		
u = -0.490936 + 0.178178I		
a = 0.24238 + 3.11516I	-6.44341 + 3.68086I	-13.6904 - 4.8990I
b = 1.382040 - 0.014841I		
u = -0.490936 - 0.178178I		
a = 0.24238 - 3.11516I	-6.44341 - 3.68086I	-13.6904 + 4.8990I
b = 1.382040 + 0.014841I		
u = -1.48618 + 0.00613I		
a = 0.098528 + 0.813606I	-6.09592 + 1.64565I	0
b = 0.315796 - 0.762481I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.48618 - 0.00613I		
a = 0.098528 - 0.813606I	-6.09592 - 1.64565I	0
b = 0.315796 + 0.762481I		
u = -0.178980 + 0.439864I		
a = 1.056880 + 0.579358I	3.23925 - 1.18451I	3.17617 + 1.25796I
b = -0.531876 - 0.756279I		
u = -0.178980 - 0.439864I		
a = 1.056880 - 0.579358I	3.23925 + 1.18451I	3.17617 - 1.25796I
b = -0.531876 + 0.756279I		
u = 0.465205 + 0.093431I		
a = -0.07254 + 2.27543I	1.36006 - 1.43745I	-12.0554 + 7.7332I
b = 0.204842 - 1.190100I		
u = 0.465205 - 0.093431I		
a = -0.07254 - 2.27543I	1.36006 + 1.43745I	-12.0554 - 7.7332I
b = 0.204842 + 1.190100I		
u = 1.54191 + 0.03849I		
a = -0.790361 + 0.168672I	-4.84551 - 4.27483I	0
b = -1.305740 - 0.260764I		
u = 1.54191 - 0.03849I		
a = -0.790361 - 0.168672I	-4.84551 + 4.27483I	0
b = -1.305740 + 0.260764I		
u = 1.55153		
a = 0.691794	-8.58947	0
b = 1.41813		
u = 1.56140 + 0.07649I		
a = -0.27530 + 1.40786I	-14.8432 - 1.4473I	0
b = -1.140370 - 0.297190I		
u = 1.56140 - 0.07649I		
a = -0.27530 - 1.40786I	-14.8432 + 1.4473I	0
b = -1.140370 + 0.297190I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.56585 + 0.01882I		
a = -0.050219 - 0.867231I	-5.74012 + 1.79605I	0
b = 0.22809 + 1.70840I		
u = -1.56585 - 0.01882I		
a = -0.050219 + 0.867231I	-5.74012 - 1.79605I	0
b = 0.22809 - 1.70840I		
u = 1.56534 + 0.05266I		
a = 0.653824 - 1.146550I	-13.5869 - 4.5151I	0
b = 1.43207 + 0.25279I		
u = 1.56534 - 0.05266I		
a = 0.653824 + 1.146550I	-13.5869 + 4.5151I	0
b = 1.43207 - 0.25279I		
u = -0.431395		
a = 1.13469	-1.70568	-3.51530
b = 0.946642		
u = -1.05293 + 1.16373I		
a = -0.552771 + 0.656982I	-9.47040 + 4.51904I	0
b = 1.295040 - 0.191585I		
u = -1.05293 - 1.16373I		
a = -0.552771 - 0.656982I	-9.47040 - 4.51904I	0
b = 1.295040 + 0.191585I		
u = 0.284081 + 0.308258I		
a = -0.439234 - 1.143360I	-0.189428 - 0.841299I	-4.65351 + 7.98617I
b = 0.214478 + 0.317345I		
u = 0.284081 - 0.308258I		
a = -0.439234 + 1.143360I	-0.189428 + 0.841299I	-4.65351 - 7.98617I
b = 0.214478 - 0.317345I		
u = -1.57655 + 0.11657I		
a = 1.105590 + 0.283380I	-9.12473 + 8.98920I	0
b = 1.302210 - 0.195925I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.57655 - 0.11657I		
a = 1.105590 - 0.283380I	-9.12473 - 8.98920I	0
b = 1.302210 + 0.195925I		
u = -1.57232 + 0.17577I		
a = -0.525222 - 0.887076I	-12.31410 + 5.28789I	0
b = -1.49086 + 0.22367I		
u = -1.57232 - 0.17577I		
a = -0.525222 + 0.887076I	-12.31410 - 5.28789I	0
b = -1.49086 - 0.22367I		
u = 1.60156 + 0.07631I		
a = -0.080976 + 1.002640I	-15.9884 - 3.0243I	0
b = -1.39765 - 0.86415I		
u = 1.60156 - 0.07631I		
a = -0.080976 - 1.002640I	-15.9884 + 3.0243I	0
b = -1.39765 + 0.86415I		
u = 1.60206 + 0.11818I		
a = 0.083430 - 0.863594I	-9.94507 - 9.67187I	0
b = 0.13553 + 1.48784I		
u = 1.60206 - 0.11818I		
a = 0.083430 + 0.863594I	-9.94507 + 9.67187I	0
b = 0.13553 - 1.48784I		
u = 1.60254 + 0.12020I		
a = 0.054616 + 0.921423I	-13.03140 - 4.01637I	0
b = -0.244997 - 1.142180I		
u = 1.60254 - 0.12020I		
a = 0.054616 - 0.921423I	-13.03140 + 4.01637I	0
b = -0.244997 + 1.142180I		
u = 1.60624 + 0.05496I		
a = 0.120137 - 0.790933I	-14.8594 + 1.4437I	0
b = 1.72208 + 0.68668I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.60624 - 0.05496I		
a = 0.120137 + 0.790933I	-14.8594 - 1.4437I	0
b = 1.72208 - 0.68668I		
u = -1.60055 + 0.19017I		
a = -0.198672 - 0.849455I	-12.79020 + 5.57261I	0
b = -1.62688 + 0.39160I		
u = -1.60055 - 0.19017I		
a = -0.198672 + 0.849455I	-12.79020 - 5.57261I	0
b = -1.62688 - 0.39160I		
u = -1.60485 + 0.15048I		
a = -0.502230 - 0.340729I	-12.27220 + 4.78564I	0
b = -1.46981 + 0.03824I		
u = -1.60485 - 0.15048I		
a = -0.502230 + 0.340729I	-12.27220 - 4.78564I	0
b = -1.46981 - 0.03824I		
u = -1.60258 + 0.19607I		
a = 0.169020 + 0.982199I	-10.6448 + 10.2694I	0
b = 1.63051 - 0.67539I		
u = -1.60258 - 0.19607I		
a = 0.169020 - 0.982199I	-10.6448 - 10.2694I	0
b = 1.63051 + 0.67539I		
u = 1.62021 + 0.16614I		
a = -0.315343 - 0.768944I	-8.17640 + 1.14930I	0
b = -0.216820 + 0.664390I		
u = 1.62021 - 0.16614I		
a = -0.315343 + 0.768944I	-8.17640 - 1.14930I	0
b = -0.216820 - 0.664390I		
u = -1.62325 + 0.26012I		
a = 0.124507 + 0.886797I	-8.93307 + 2.05082I	0
b = 1.234980 - 0.275110I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.62325 - 0.26012I		
a = 0.124507 - 0.886797I	-8.93307 - 2.05082I	0
b = 1.234980 + 0.275110I		
u = -1.68381 + 0.16522I		
a = 0.311492 - 0.243654I	-8.81041 - 0.18615I	0
b = 1.216690 + 0.286899I		
u = -1.68381 - 0.16522I		
a = 0.311492 + 0.243654I	-8.81041 + 0.18615I	0
b = 1.216690 - 0.286899I		
u = 1.67684 + 0.25771I		
a = -0.190408 + 1.009440I	-15.4166 - 16.8496I	0
b = -1.55979 - 0.58138I		
u = 1.67684 - 0.25771I		
a = -0.190408 - 1.009440I	-15.4166 + 16.8496I	0
b = -1.55979 + 0.58138I		
u = 1.72467 + 0.29018I		
a = 0.085552 - 0.899049I	-18.5482 - 9.7894I	0
b = 1.49426 + 0.47195I		
u = 1.72467 - 0.29018I		
a = 0.085552 + 0.899049I	-18.5482 + 9.7894I	0
b = 1.49426 - 0.47195I		
u = 2.00123 + 0.53247I		
a = 0.067451 + 0.592695I	-11.31000 - 2.08418I	0
b = -1.238420 - 0.242163I		
u = 2.00123 - 0.53247I		
a = 0.067451 - 0.592695I	-11.31000 + 2.08418I	0
b = -1.238420 + 0.242163I		

$$II. \\ I_2^u = \langle 3.00 \times 10^6 u^{26} + 3.52 \times 10^6 u^{25} + \dots + 7.93 \times 10^5 b - 4.09 \times 10^6, \ -5.34 \times 10^5 u^{26} + 1.88 \times 10^6 u^{25} + \dots + 7.93 \times 10^5 a + 5.66 \times 10^6, \ u^{27} + 3u^{26} + \dots + 5u - 1 \rangle$$

(i) Arc colorings

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.673270u^{26} - 2.37664u^{25} + \dots + 25.0995u - 7.13810 \\ -3.78064u^{26} - 4.44419u^{25} + \dots - 21.2698u + 5.16587 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -3.10737u^{26} - 6.82083u^{25} + \dots + 3.82971u - 1.97222 \\ -3.78064u^{26} - 4.44419u^{25} + \dots - 21.2698u + 5.16587 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -1.18091u^{26} - 3.85843u^{25} + \dots + 6.21017u - 5.38505 \\ -1.70258u^{26} - 2.82854u^{25} + \dots - 3.08295u + 1.50340 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.122342u^{26} - 2.57030u^{25} + \dots + 10.5145u - 7.58720 \\ -1.42936u^{26} - 2.56048u^{25} + \dots - 2.39396u + 1.29629 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 3.66248u^{26} + 8.90937u^{25} + \dots + 4.93561u + 6.12557 \\ -2.59489u^{26} - 4.46514u^{25} + \dots - 9.49678u + 0.521665 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -1.09427u^{26} - 3.45639u^{25} + \dots + 4.42081u - 5.18096 \\ -3.64276u^{26} - 4.52291u^{25} + \dots - 13.9435u + 3.89601 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -4.06341u^{26} - 6.40875u^{25} + \dots - 8.28744u + 1.23141 \\ -2.48321u^{26} - 3.27273u^{25} + \dots - 10.3527u + 2.66927 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{2226709}{792677}u^{26} - \frac{4791574}{792677}u^{25} + \dots + \frac{14581222}{792677}u - \frac{4258801}{792677}u$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{27} - 3u^{26} + \dots + 9u - 3$
c_2	$u^{27} - u^{26} + \dots + 3u - 1$
c_3	$u^{27} + 15u^{25} + \dots + 5u + 1$
c_4	$u^{27} + 3u^{26} + \dots + 9u + 3$
c_5	$u^{27} - 2u^{26} + \dots + 5u - 1$
<i>C</i> ₆	$u^{27} + u^{26} + \dots + 3u + 1$
c_7, c_8	$u^{27} + 3u^{26} + \dots + 5u - 1$
c_9	$u^{27} + 2u^{26} + \dots + 5u + 1$
c_{10}	$u^{27} + 15u^{25} + \dots + 5u - 1$
c_{11}	$u^{27} - 3u^{26} + \dots + 5u + 1$
c_{12}	$u^{27} + u^{26} + \dots + 37u - 13$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{27} + 23y^{26} + \dots - 141y - 9$
c_2, c_6	$y^{27} - 17y^{26} + \dots + 9y - 1$
c_3,c_{10}	$y^{27} + 30y^{26} + \dots + 17y - 1$
c_{5}, c_{9}	$y^{27} + 18y^{26} + \dots - 3y - 1$
c_7, c_8, c_{11}	$y^{27} - 37y^{26} + \dots + 33y - 1$
c_{12}	$y^{27} - 7y^{26} + \dots + 251y - 169$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.03811		
a = -0.159209	-2.84980	-16.4580
b = -0.784252		
u = 0.748175 + 0.105655I		
a = 0.279333 + 0.368664I	1.83419 + 2.65297I	-0.36090 + 4.60742I
b = 0.882795 - 0.680720I		
u = 0.748175 - 0.105655I		
a = 0.279333 - 0.368664I	1.83419 - 2.65297I	-0.36090 - 4.60742I
b = 0.882795 + 0.680720I		
u = 1.294530 + 0.034789I		
a = -0.259219 + 0.497403I	-1.83917 - 1.49800I	-9.12397 + 5.41258I
b = -0.182701 + 0.600701I		
u = 1.294530 - 0.034789I		
a = -0.259219 - 0.497403I	-1.83917 + 1.49800I	-9.12397 - 5.41258I
b = -0.182701 - 0.600701I		
u = -1.259050 + 0.350704I		
a = 0.119528 - 0.626909I	-7.24454 + 1.88805I	-13.81478 - 1.79703I
b = 0.653247 + 0.049288I		
u = -1.259050 - 0.350704I		
a = 0.119528 + 0.626909I	-7.24454 - 1.88805I	-13.81478 + 1.79703I
b = 0.653247 - 0.049288I		
u = 0.252879 + 0.611917I		
a = 1.47088 + 1.30440I	-5.27887 - 3.53952I	-7.30701 + 5.60328I
b = -1.389330 + 0.017865I		
u = 0.252879 - 0.611917I		
a = 1.47088 - 1.30440I	-5.27887 + 3.53952I	-7.30701 - 5.60328I
b = -1.389330 - 0.017865I		
u = -1.365240 + 0.167447I		
a = 0.449300 + 0.369934I	-5.94774 + 7.32226I	-10.71991 - 7.51124I
b = -0.429753 + 0.338426I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.365240 - 0.167447I		
a = 0.449300 - 0.369934I	-5.94774 - 7.32226I	-10.71991 + 7.51124I
b = -0.429753 - 0.338426I		
u = -0.201115 + 0.528834I		
a = -1.46674 - 0.51422I	-1.80312 - 5.03781I	-10.29717 + 6.83310I
b = -0.639093 - 0.316370I		
u = -0.201115 - 0.528834I		
a = -1.46674 + 0.51422I	-1.80312 + 5.03781I	-10.29717 - 6.83310I
b = -0.639093 + 0.316370I		
u = -0.439489 + 0.267686I		
a = -1.47387 + 2.97217I	-7.57088 + 1.18253I	-7.77665 - 3.74760I
b = 1.190120 - 0.233496I		
u = -0.439489 - 0.267686I		
a = -1.47387 - 2.97217I	-7.57088 - 1.18253I	-7.77665 + 3.74760I
b = 1.190120 + 0.233496I		
u = -1.52232 + 0.01840I		
a = 0.139780 - 0.848382I	-4.52450 - 0.76353I	-5.42241 + 0.28908I
b = 0.037051 + 1.262990I		
u = -1.52232 - 0.01840I		
a = 0.139780 + 0.848382I	-4.52450 + 0.76353I	-5.42241 - 0.28908I
b = 0.037051 - 1.262990I		
u = -1.54296 + 0.15604I		
a = -0.544250 - 0.878566I	-11.64350 + 6.09468I	-8.13310 - 7.08189I
b = -1.57279 + 0.15201I		
u = -1.54296 - 0.15604I		
a = -0.544250 + 0.878566I	-11.64350 - 6.09468I	-8.13310 + 7.08189I
b = -1.57279 - 0.15201I		
u = 1.55264 + 0.06966I		
a = 0.246557 - 1.296030I	-14.4755 - 2.3233I	-9.43970 + 3.30668I
b = 1.246470 + 0.511230I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.55264 - 0.06966I		
a = 0.246557 + 1.296030I	-14.4755 + 2.3233I	-9.43970 - 3.30668I
b = 1.246470 - 0.511230I		
u = -1.61874 + 0.47056I		
a = 0.022489 + 0.795132I	-10.08060 + 2.82444I	-12.89711 - 3.14465I
b = 1.280130 - 0.170951I		
u = -1.61874 - 0.47056I		
a = 0.022489 - 0.795132I	-10.08060 - 2.82444I	-12.89711 + 3.14465I
b = 1.280130 + 0.170951I		
u = 0.242146 + 0.071939I		
a = 2.15135 + 3.13574I	1.75106 + 1.08204I	0.48346 + 1.66701I
b = -0.049870 - 0.913367I		
u = 0.242146 - 0.071939I		
a = 2.15135 - 3.13574I	1.75106 - 1.08204I	0.48346 - 1.66701I
b = -0.049870 + 0.913367I		
u = 1.83948 + 0.21736I		
a = -0.055534 + 0.721360I	-10.70870 - 1.45270I	0
b = -1.134140 - 0.322128I		
u = 1.83948 - 0.21736I		
a = -0.055534 - 0.721360I	-10.70870 + 1.45270I	0
b = -1.134140 + 0.322128I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{27} - 3u^{26} + \dots + 9u - 3)(u^{99} - 8u^{98} + \dots + 19u - 1) $
c_2	$(u^{27} - u^{26} + \dots + 3u - 1)(u^{99} - 2u^{98} + \dots - 21137u - 8401)$
c_3	$ (u^{27} + 15u^{25} + \dots + 5u + 1)(u^{99} + u^{98} + \dots - 17146u - 20252) $
c_4	$(u^{27} + 3u^{26} + \dots + 9u + 3)(u^{99} - 8u^{98} + \dots + 19u - 1)$
c_5	$ (u^{27} - 2u^{26} + \dots + 5u - 1)(u^{99} - 3u^{98} + \dots - 1873u - 577) $
c_6	$ (u^{27} + u^{26} + \dots + 3u + 1)(u^{99} - 2u^{98} + \dots - 21137u - 8401) $
c_7, c_8	$(u^{27} + 3u^{26} + \dots + 5u - 1)(u^{99} + 4u^{98} + \dots + 2545u - 1003)$
<i>c</i> ₉	$(u^{27} + 2u^{26} + \dots + 5u + 1)(u^{99} - 3u^{98} + \dots - 1873u - 577)$
c_{10}	$(u^{27} + 15u^{25} + \dots + 5u - 1)(u^{99} + u^{98} + \dots - 17146u - 20252)$
c_{11}	$(u^{27} - 3u^{26} + \dots + 5u + 1)(u^{99} + 4u^{98} + \dots + 2545u - 1003)$
c_{12}	$(u^{27} + u^{26} + \dots + 37u - 13)$ $\cdot (u^{99} + 2u^{98} + \dots - 23310064u - 2254444)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$(y^{27} + 23y^{26} + \dots - 141y - 9)(y^{99} + 56y^{98} + \dots + 87y - 1)$
c_2, c_6	$(y^{27} - 17y^{26} + \dots + 9y - 1)$ $\cdot (y^{99} - 80y^{98} + \dots - 692503643y - 70576801)$
c_3, c_{10}	$(y^{27} + 30y^{26} + \dots + 17y - 1)$ $\cdot (y^{99} + 95y^{98} + \dots + 3720826236y - 410143504)$
c_5,c_9	$(y^{27} + 18y^{26} + \dots - 3y - 1)$ $\cdot (y^{99} + 71y^{98} + \dots - 12786351y - 332929)$
c_7, c_8, c_{11}	$(y^{27} - 37y^{26} + \dots + 33y - 1)$ $\cdot (y^{99} - 120y^{98} + \dots + 48189789y - 1006009)$
c_{12}	$(y^{27} - 7y^{26} + \dots + 251y - 169)$ $\cdot (y^{99} - 42y^{98} + \dots + 169128066365000y - 5082517749136)$