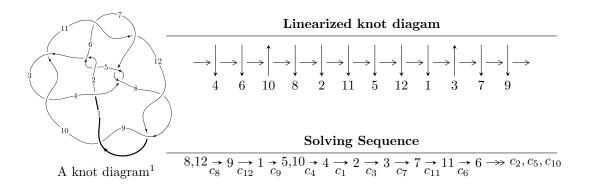
$12a_{0946} (K12a_{0946})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.82351 \times 10^{199} u^{97} - 3.99104 \times 10^{199} u^{96} + \dots + 1.17463 \times 10^{197} b - 5.97726 \times 10^{199}, \\ &- 8.41837 \times 10^{199} u^{97} + 3.53183 \times 10^{200} u^{96} + \dots + 1.17463 \times 10^{197} a - 7.10346 \times 10^{200}, \\ &u^{98} - 4 u^{97} + \dots + 21 u + 1 \rangle \\ I_2^u &= \langle -165708 u^{22} - 355153 u^{21} + \dots + 96055 b - 107266, \\ &89858 u^{22} + 320813 u^{21} + \dots + 96055 a + 622041, \ u^{23} + 3 u^{22} + \dots + 5 u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 121 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.
$$I_1^u = \langle 1.82 \times 10^{199} u^{97} - 3.99 \times 10^{199} u^{96} + \dots + 1.17 \times 10^{197} b - 5.98 \times 10^{199}, \ -8.42 \times 10^{199} u^{97} + 3.53 \times 10^{200} u^{96} + \dots + 1.17 \times 10^{197} a - 7.10 \times 10^{200}, \ u^{98} - 4 u^{97} + \dots + 21 u + 1 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 716.680u^{97} - 3006.74u^{96} + \dots + 84179.0u + 6047.37 \\ -155.241u^{97} + 339.769u^{96} + \dots + 7987.50u + 508.861 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 561.439u^{97} - 2666.97u^{96} + \dots + 92166.5u + 6556.23 \\ -155.241u^{97} + 339.769u^{96} + \dots + 7987.50u + 508.861 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -2232.86u^{97} + 9464.74u^{96} + \dots + 162707.u - 9052.39 \\ 240.514u^{97} - 994.313u^{96} + \dots + 20176.8u + 1288.64 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 726.180u^{97} - 3041.76u^{96} + \dots + 86152.2u + 6221.39 \\ -171.747u^{97} + 386.011u^{96} + \dots + 8024.20u + 506.994 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -884.790u^{97} + 3739.52u^{96} + \dots - 77156.6u - 4840.59 \\ 574.685u^{97} - 1162.46u^{96} + \dots - 30034.5u - 1690.30 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2218.70u^{97} + 9267.40u^{96} + \dots - 178246.u - 10919.1 \\ -1006.24u^{97} + 2826.71u^{96} + \dots + 2301.61u - 78.0343 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 2277.85u^{97} - 9597.62u^{96} + \dots + 161982.u + 8982.40 \\ -434.686u^{97} + 1510.96u^{96} + \dots - 17995.0u - 1202.35 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-2276.86u^{97} + 4325.44u^{96} + \cdots + 123935.u + 6545.69$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{98} - 15u^{97} + \dots + 8302550u - 947299$
c_{2}, c_{5}	$u^{98} - 37u^{96} + \dots + 5041u - 631$
c_3, c_{10}	$u^{98} + u^{97} + \dots - 633u - 389$
c_4, c_7	$u^{98} - 9u^{97} + \dots - 284u - 61$
c_6, c_{11}	$u^{98} - u^{97} + \dots + 3881u + 173$
c_8, c_9, c_{12}	$u^{98} + 4u^{97} + \dots - 21u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{98} - 47y^{97} + \dots - 51996320363916y + 897375395401$
c_2, c_5	$y^{98} - 74y^{97} + \dots - 157589775y + 398161$
c_3, c_{10}	$y^{98} + 69y^{97} + \dots + 1816611y + 151321$
c_4, c_7	$y^{98} + 23y^{97} + \dots + 57570y + 3721$
c_6, c_{11}	$y^{98} - 91y^{97} + \dots - 16222645y + 29929$
c_8, c_9, c_{12}	$y^{98} - 102y^{97} + \dots - 139y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.869872 + 0.514495I		
a = -0.048478 + 1.314500I	-0.28390 - 1.77488I	0
b = -0.088737 - 0.875286I		
u = 0.869872 - 0.514495I		
a = -0.048478 - 1.314500I	-0.28390 + 1.77488I	0
b = -0.088737 + 0.875286I		
u = -0.270398 + 0.916483I		
a = -0.39159 + 1.83133I	-8.98485 - 2.04867I	0
b = 0.573341 - 0.717745I		
u = -0.270398 - 0.916483I		
a = -0.39159 - 1.83133I	-8.98485 + 2.04867I	0
b = 0.573341 + 0.717745I		
u = -0.585491 + 0.889556I		
a = 0.17534 + 1.76595I	-8.1077 + 12.6582I	0
b = 0.658148 - 1.174700I		
u = -0.585491 - 0.889556I		
a = 0.17534 - 1.76595I	-8.1077 - 12.6582I	0
b = 0.658148 + 1.174700I		
u = 0.704943 + 0.595999I		
a = -0.891461 + 0.408499I	-3.04222 + 2.80965I	0
b = 0.510400 - 0.949226I		
u = 0.704943 - 0.595999I		
a = -0.891461 - 0.408499I	-3.04222 - 2.80965I	0
b = 0.510400 + 0.949226I		
u = -0.882350 + 0.204173I		
a = 0.141906 + 0.744432I	-4.53891 + 2.03666I	0
b = -0.403138 + 0.275887I		
u = -0.882350 - 0.204173I		
a = 0.141906 - 0.744432I	-4.53891 - 2.03666I	0
b = -0.403138 - 0.275887I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.097570 + 0.119002I		
a = -0.118553 - 1.109170I	1.14164 + 3.24395I	0
b = -0.123711 + 1.365490I		
u = -1.097570 - 0.119002I		
a = -0.118553 + 1.109170I	1.14164 - 3.24395I	0
b = -0.123711 - 1.365490I		
u = -0.688407 + 0.561148I		
a = -0.650784 - 0.430337I	-10.62400 + 6.79732I	0
b = 0.973526 + 0.319802I		
u = -0.688407 - 0.561148I		
a = -0.650784 + 0.430337I	-10.62400 - 6.79732I	0
b = 0.973526 - 0.319802I		
u = 0.461679 + 0.753927I		
a = 0.80237 - 1.37988I	0.78025 - 2.89614I	0
b = 0.213932 + 0.897044I		
u = 0.461679 - 0.753927I		
a = 0.80237 + 1.37988I	0.78025 + 2.89614I	0
b = 0.213932 - 0.897044I		
u = 1.011600 + 0.503109I		
a = 0.678392 - 0.662548I	-0.370730 - 0.826230I	0
b = -0.194790 + 0.833586I		
u = 1.011600 - 0.503109I		
a = 0.678392 + 0.662548I	-0.370730 + 0.826230I	0
b = -0.194790 - 0.833586I		
u = -0.671090 + 0.935512I		
a = -0.749624 - 0.949294I	-8.24796 - 6.61463I	0
b = 0.569152 + 0.950530I		
u = -0.671090 - 0.935512I		
a = -0.749624 + 0.949294I	-8.24796 + 6.61463I	0
b = 0.569152 - 0.950530I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.522173 + 1.034860I		
a = 0.04375 - 1.65386I	-3.10943 + 5.35221I	0
b = -0.539141 + 1.015470I		
u = -0.522173 - 1.034860I		
a = 0.04375 + 1.65386I	-3.10943 - 5.35221I	0
b = -0.539141 - 1.015470I		
u = 0.387529 + 0.723166I		
a = 0.04318 - 1.77881I	-2.08402 - 7.34587I	0
b = 0.726237 + 1.144420I		
u = 0.387529 - 0.723166I		
a = 0.04318 + 1.77881I	-2.08402 + 7.34587I	0
b = 0.726237 - 1.144420I		
u = 0.528845 + 0.624827I		
a = -1.26838 + 1.67727I	-2.20388 - 6.21863I	0
b = -0.407170 - 1.180840I		
u = 0.528845 - 0.624827I		
a = -1.26838 - 1.67727I	-2.20388 + 6.21863I	0
b = -0.407170 + 1.180840I		
u = 0.333186 + 0.719444I		
a = -0.05652 + 1.92417I	1.49262 - 3.60891I	0
b = -0.461574 - 1.066670I		
u = 0.333186 - 0.719444I		
a = -0.05652 - 1.92417I	1.49262 + 3.60891I	0
b = -0.461574 + 1.066670I		
u = -0.783414 + 0.004145I		
a = 0.158363 + 1.025910I	-6.70285 + 1.34124I	0
b = 0.382098 + 1.016450I		
u = -0.783414 - 0.004145I		
a = 0.158363 - 1.025910I	-6.70285 - 1.34124I	0
b = 0.382098 - 1.016450I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.449601 + 0.612429I		
a = 0.104284 + 0.676685I	-5.77164 - 2.03836I	0
b = -0.786712 - 0.014675I		
u = 0.449601 - 0.612429I		
a = 0.104284 - 0.676685I	-5.77164 + 2.03836I	0
b = -0.786712 + 0.014675I		
u = -0.959993 + 0.837975I		
a = 0.578380 + 0.792131I	-4.36445 + 1.15897I	0
b = -0.452856 - 0.652095I		
u = -0.959993 - 0.837975I		
a = 0.578380 - 0.792131I	-4.36445 - 1.15897I	0
b = -0.452856 + 0.652095I		
u = 0.448449 + 0.524633I		
a = 0.52821 - 1.42812I	-2.06583 + 2.19697I	0
b = -0.364140 + 1.219180I		
u = 0.448449 - 0.524633I		
a = 0.52821 + 1.42812I	-2.06583 - 2.19697I	0
b = -0.364140 - 1.219180I		
u = 1.31686		
a = -1.60742	-6.77367	0
b = -0.267280		
u = -0.261404 + 0.577945I		
a = 1.04619 + 1.52960I	3.01178 - 0.71050I	0
b = 0.053626 - 1.058280I		
u = -0.261404 - 0.577945I		
a = 1.04619 - 1.52960I	3.01178 + 0.71050I	0
b = 0.053626 + 1.058280I		
u = -0.461099 + 0.422487I		
a = -1.01878 - 1.15989I	2.09347 + 3.83166I	0
b = -0.354585 + 1.158230I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.461099 - 0.422487I		
a = -1.01878 + 1.15989I	2.09347 - 3.83166I	0
b = -0.354585 - 1.158230I		
u = -1.382110 + 0.108989I		
a = -1.38912 - 0.47418I	-11.55750 + 5.11496I	0
b = -0.280843 - 0.379965I		
u = -1.382110 - 0.108989I		
a = -1.38912 + 0.47418I	-11.55750 - 5.11496I	0
b = -0.280843 + 0.379965I		
u = 1.40164		
a = 0.346080	-8.43925	0
b = 5.07944		
u = 1.40182		
a = -0.916679	-6.55811	0
b = -1.03145		
u = 1.396470 + 0.154079I		
a = 0.919280 - 0.440603I	-2.22672 - 1.88160I	0
b = 0.455419 + 0.869864I		
u = 1.396470 - 0.154079I		
a = 0.919280 + 0.440603I	-2.22672 + 1.88160I	0
b = 0.455419 - 0.869864I		
u = -1.41981 + 0.05352I		
a = -0.017454 + 0.228727I	-7.84955 - 0.46685I	0
b = -0.81981 - 1.98461I		
u = -1.41981 - 0.05352I		
a = -0.017454 - 0.228727I	-7.84955 + 0.46685I	0
b = -0.81981 + 1.98461I		
u = -1.42967 + 0.07453I		
a = 0.659562 - 0.271659I	-6.06877 + 2.51605I	0
b = 0.504770 + 0.791881I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.42967 - 0.07453I		
a = 0.659562 + 0.271659I	-6.06877 - 2.51605I	0
b = 0.504770 - 0.791881I		
u = 1.44941 + 0.01184I		
a = -0.496300 + 0.956160I	-7.57045 - 1.72351I	0
b = -0.57569 - 1.60938I		
u = 1.44941 - 0.01184I		
a = -0.496300 - 0.956160I	-7.57045 + 1.72351I	0
b = -0.57569 + 1.60938I		
u = -1.43972 + 0.18025I		
a = 0.85249 + 1.42167I	-9.23881 + 3.62406I	0
b = 0.513480 - 1.083380I		
u = -1.43972 - 0.18025I		
a = 0.85249 - 1.42167I	-9.23881 - 3.62406I	0
b = 0.513480 + 1.083380I		
u = -1.43973 + 0.23623I		
a = -0.699954 - 0.749392I	-11.81760 + 5.06712I	0
b = -0.661993 + 0.186674I		
u = -1.43973 - 0.23623I		
a = -0.699954 + 0.749392I	-11.81760 - 5.06712I	0
b = -0.661993 - 0.186674I		
u = 1.46464 + 0.00549I		
a = 1.23498 - 1.52616I	-13.25910 - 4.36452I	0
b = 0.424830 + 1.091030I		
u = 1.46464 - 0.00549I		
a = 1.23498 + 1.52616I	-13.25910 + 4.36452I	0
b = 0.424830 - 1.091030I		
u = 0.535217		
a = 0.642917	-1.04986	-8.43700
b = -0.474087		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.46864		
a = -0.185257	-7.44543	0
b = -1.53993		
u = -1.45965 + 0.22884I		
a = -0.794962 - 0.986945I	-4.33606 + 6.96557I	0
b = -0.70785 + 1.23422I		
u = -1.45965 - 0.22884I		
a = -0.794962 + 0.986945I	-4.33606 - 6.96557I	0
b = -0.70785 - 1.23422I		
u = 0.230404 + 0.465670I		
a = -0.34146 - 3.49119I	-3.77190 - 1.20036I	-8.00000 + 6.08405I
b = 0.456507 + 0.739761I		
u = 0.230404 - 0.465670I		
a = -0.34146 + 3.49119I	-3.77190 + 1.20036I	-8.00000 - 6.08405I
b = 0.456507 - 0.739761I		
u = -1.46401 + 0.24425I		
a = 0.819735 + 0.895580I	-8.06381 + 10.82180I	0
b = 0.98420 - 1.23121I		
u = -1.46401 - 0.24425I		
a = 0.819735 - 0.895580I	-8.06381 - 10.82180I	0
b = 0.98420 + 1.23121I		
u = 1.48437 + 0.14298I		
a = -0.851238 + 0.373681I	-4.26573 - 5.94169I	0
b = -0.673810 - 1.087680I		
u = 1.48437 - 0.14298I		
a = -0.851238 - 0.373681I	-4.26573 + 5.94169I	0
b = -0.673810 + 1.087680I		
u = 0.322091 + 0.347887I		
a = 0.764968 + 0.507804I	-0.494191 - 1.020860I	-7.14325 + 6.83683I
b = 0.150587 - 0.277895I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.322091 - 0.347887I		
a = 0.764968 - 0.507804I	-0.494191 + 1.020860I	-7.14325 - 6.83683I
b = 0.150587 + 0.277895I		
u = -1.52203 + 0.25474I		
a = 0.919547 + 0.643294I	-5.74028 + 6.55073I	0
b = 0.487316 - 0.904250I		
u = -1.52203 - 0.25474I		
a = 0.919547 - 0.643294I	-5.74028 - 6.55073I	0
b = 0.487316 + 0.904250I		
u = -1.53962 + 0.20680I		
a = -1.256030 - 0.595631I	-9.05232 + 9.27384I	0
b = -0.528288 + 1.126000I		
u = -1.53962 - 0.20680I		
a = -1.256030 + 0.595631I	-9.05232 - 9.27384I	0
b = -0.528288 - 1.126000I		
u = 1.51409 + 0.40135I		
a = 0.50074 - 1.35758I	-14.7222 - 2.8824I	0
b = 0.612341 + 1.075100I		
u = 1.51409 - 0.40135I		
a = 0.50074 + 1.35758I	-14.7222 + 2.8824I	0
b = 0.612341 - 1.075100I		
u = 1.55785 + 0.17985I		
a = 0.0467619 - 0.0855208I	-18.0134 - 9.5459I	0
b = 1.39744 - 0.42256I		
u = 1.55785 - 0.17985I		
a = 0.0467619 + 0.0855208I	-18.0134 + 9.5459I	0
b = 1.39744 + 0.42256I		
u = 1.57169 + 0.30615I		
a = 0.789632 - 1.095210I	-15.1407 - 17.0445I	0
b = 0.79146 + 1.30982I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.57169 - 0.30615I		
a = 0.789632 + 1.095210I	-15.1407 + 17.0445I	0
b = 0.79146 - 1.30982I		
u = 1.60213 + 0.16000I		
a = -0.0739943 - 0.0751522I	-13.06300 - 4.11534I	0
b = -1.082620 + 0.233913I		
u = 1.60213 - 0.16000I		
a = -0.0739943 + 0.0751522I	-13.06300 + 4.11534I	0
b = -1.082620 - 0.233913I		
u = -1.60859 + 0.08568I		
a = -0.037104 + 0.140652I	-11.04550 - 0.49456I	0
b = 0.446257 + 0.535147I		
u = -1.60859 - 0.08568I		
a = -0.037104 - 0.140652I	-11.04550 + 0.49456I	0
b = 0.446257 - 0.535147I		
u = 1.58533 + 0.34520I		
a = -0.621381 + 1.142830I	-10.0150 - 10.3535I	0
b = -0.67855 - 1.25364I		
u = 1.58533 - 0.34520I		
a = -0.621381 - 1.142830I	-10.0150 + 10.3535I	0
b = -0.67855 + 1.25364I		
u = 1.63270 + 0.01997I		
a = 0.193347 + 0.663383I	-15.0545 + 1.1487I	0
b = 0.280543 + 0.626170I		
u = 1.63270 - 0.01997I		
a = 0.193347 - 0.663383I	-15.0545 - 1.1487I	0
b = 0.280543 - 0.626170I		
u = 1.68043 + 0.23147I		
a = -0.124958 + 0.231288I	-16.3165 + 2.0940I	0
b = 0.648726 - 0.557331I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.68043 - 0.23147I		
a = -0.124958 - 0.231288I	-16.3165 - 2.0940I	0
b = 0.648726 + 0.557331I		
u = 0.048534 + 0.263196I		
a = -1.38801 + 1.88767I	-3.97497 - 0.28471I	16.2498 + 7.3169I
b = 1.47618 - 1.06789I		
u = 0.048534 - 0.263196I		
a = -1.38801 - 1.88767I	-3.97497 + 0.28471I	16.2498 - 7.3169I
b = 1.47618 + 1.06789I		
u = -0.206718		
a = -1.79256	-1.36091	-4.55190
b = -0.714407		
u = -0.170914 + 0.029465I		
a = 11.31340 - 6.60130I	-7.57568 - 4.37408I	-17.4821 + 11.0490I
b = 0.316331 + 0.777572I		
u = -0.170914 - 0.029465I		
a = 11.31340 + 6.60130I	-7.57568 + 4.37408I	-17.4821 - 11.0490I
b = 0.316331 - 0.777572I		
u = -0.166697 + 0.031468I		
a = -2.77224 - 5.52351I	-2.03976 + 1.55362I	-12.68068 + 0.63853I
b = -0.446995 + 1.135490I		
u = -0.166697 - 0.031468I		
a = -2.77224 + 5.52351I	-2.03976 - 1.55362I	-12.68068 - 0.63853I
b = -0.446995 - 1.135490I		

II.
$$I_2^u = \langle -1.66 \times 10^5 u^{22} - 3.55 \times 10^5 u^{21} + \dots + 9.61 \times 10^4 b - 1.07 \times 10^5, \ 89858 u^{22} + 320813 u^{21} + \dots + 96055 a + 622041, \ u^{23} + 3u^{22} + \dots + 5u - 1 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.935485u^{22} - 3.33989u^{21} + \dots + 2.18467u - 6.47588 \\ 1.72514u^{22} + 3.69739u^{21} + \dots + 3.10480u + 1.11671 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.789652u^{22} + 0.357504u^{21} + \dots + 5.28947u - 5.35917 \\ 1.72514u^{22} + 3.69739u^{21} + \dots + 3.10480u + 1.11671 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.318713u^{22} + 0.614273u^{21} + \dots + 3.10480u + 1.11671 \\ 0.272719u^{22} + 1.12640u^{21} + \dots + 0.652168u + 0.885711 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.380326u^{22} - 2.78691u^{21} + \dots + 0.402238u - 6.17249 \\ 1.24227u^{22} + 2.99330u^{21} + \dots + 1.15287u + 1.30365 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.370642u^{22} + 2.04604u^{21} + \dots + 1.73914u + 7.55165 \\ 3.27272u^{22} + 5.12640u^{21} + \dots + 9.65217u - 3.11429 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.53439u^{22} + 5.16075u^{21} + \dots + 5.57690u + 8.34217 \\ -3.06589u^{22} - 5.26817u^{21} + \dots + 11.3016u + 0.370642 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.511582u^{22} - 1.63609u^{21} + \dots - 2.78819u - 3.17865 \\ 1.34322u^{22} + 2.95797u^{21} + \dots + 3.95208u - 0.0483994 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{1739283}{96055}u^{22} + \frac{3543658}{96055}u^{21} + \dots + \frac{4115202}{96055}u - \frac{1012759}{96055}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 2u^{22} + \dots + 18u - 1$
c_2	$u^{23} + 5u^{22} + \dots - 3u - 1$
<i>c</i> ₃	$u^{23} - u^{21} + \dots + u - 1$
C ₄	$u^{23} - 2u^{22} + \dots + 2u + 1$
<i>C</i> ₅	$u^{23} - 5u^{22} + \dots - 3u + 1$
<i>C</i> ₆	$u^{23} - 2u^{22} + \dots + 7u + 1$
C ₇	$u^{23} + 2u^{22} + \dots + 2u - 1$
c_{8}, c_{9}	$u^{23} + 3u^{22} + \dots + 5u - 1$
c_{10}	$u^{23} - u^{21} + \dots + u + 1$
c_{11}	$u^{23} + 2u^{22} + \dots + 7u - 1$
c_{12}	$u^{23} - 3u^{22} + \dots + 5u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} - 6y^{22} + \dots + 26y - 1$
c_2, c_5	$y^{23} - 13y^{22} + \dots + 5y - 1$
c_3, c_{10}	$y^{23} - 2y^{22} + \dots - 25y - 1$
c_4, c_7	$y^{23} - 8y^{22} + \dots + 140y^2 - 1$
c_6, c_{11}	$y^{23} - 26y^{22} + \dots + 55y - 1$
c_8, c_9, c_{12}	$y^{23} - 25y^{22} + \dots + 41y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.947471 + 0.071959I		
a = -0.097284 + 0.928452I	1.49325 - 2.96426I	-3.20077 - 2.76915I
b = -0.193218 - 1.284690I		
u = 0.947471 - 0.071959I		
a = -0.097284 - 0.928452I	1.49325 + 2.96426I	-3.20077 + 2.76915I
b = -0.193218 + 1.284690I		
u = -0.798914 + 0.453528I		
a = 0.00437 - 1.92156I	-2.16158 + 2.85386I	-12.49728 - 4.55537I
b = -0.212194 + 1.118550I		
u = -0.798914 - 0.453528I		
a = 0.00437 + 1.92156I	-2.16158 - 2.85386I	-12.49728 + 4.55537I
b = -0.212194 - 1.118550I		
u = 0.960230 + 0.543620I		
a = 0.527847 - 0.911151I	-1.053160 - 0.725959I	-16.6974 - 1.1312I
b = -0.275240 + 0.743970I		
u = 0.960230 - 0.543620I		
a = 0.527847 + 0.911151I	-1.053160 + 0.725959I	-16.6974 + 1.1312I
b = -0.275240 - 0.743970I		
u = 0.492565 + 0.733927I		
a = -0.44669 + 1.65064I	0.14885 - 4.02712I	-11.38808 + 7.15300I
b = -0.443289 - 0.985411I		
u = 0.492565 - 0.733927I		
a = -0.44669 - 1.65064I	0.14885 + 4.02712I	-11.38808 - 7.15300I
b = -0.443289 + 0.985411I		
u = -1.041840 + 0.577200I		
a = 0.743160 + 0.314273I	-3.05262 + 1.19955I	-9.65854 - 1.12734I
b = -0.200699 - 0.879786I		
u = -1.041840 - 0.577200I		
a = 0.743160 - 0.314273I	-3.05262 - 1.19955I	-9.65854 + 1.12734I
b = -0.200699 + 0.879786I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.350290 + 0.221473I		
a = 1.35794 + 1.63458I	-10.98820 + 6.37771I	-13.9915 - 7.0154I
b = 0.379300 - 0.856235I		
u = -1.350290 - 0.221473I		
a = 1.35794 - 1.63458I	-10.98820 - 6.37771I	-13.9915 + 7.0154I
b = 0.379300 + 0.856235I		
u = 1.39466		
a = 0.544457	-8.51698	-37.7320
b = 3.24559		
u = -1.44240		
a = -0.122111	-7.87221	-44.8720
b = -3.04389		
u = -0.327685 + 0.442216I		
a = -3.51601 - 1.62896I	-7.35127 - 3.89763I	-10.27703 - 2.30446I
b = 0.215376 + 0.752301I		
u = -0.327685 - 0.442216I		
a = -3.51601 + 1.62896I	-7.35127 + 3.89763I	-10.27703 + 2.30446I
b = 0.215376 - 0.752301I		
u = -1.52957 + 0.22726I		
a = -0.864540 - 0.745955I	-6.54712 + 7.43665I	-15.1164 - 6.3728I
b = -0.677631 + 1.055860I		
u = -1.52957 - 0.22726I		
a = -0.864540 + 0.745955I	-6.54712 - 7.43665I	-15.1164 + 6.3728I
b = -0.677631 - 1.055860I		
u = 0.448004		
a = 0.310841	-1.86606	-23.2090
b = -0.863178		
u = -1.59135		
a = -0.280870	-10.7789	-8.77650
b = 0.249356		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.65226 + 0.08839I		
a = -0.511819 - 0.390354I	-14.7824 + 1.7992I	-12.84740 - 5.45440I
b = 0.048818 - 0.611490I		
u = 1.65226 - 0.08839I		
a = -0.511819 + 0.390354I	-14.7824 - 1.7992I	-12.84740 + 5.45440I
b = 0.048818 + 0.611490I		
u = 0.182624		
a = -4.84626	-4.10240	-7.06160
b = 1.12968		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{23} - 2u^{22} + \dots + 18u - 1)(u^{98} - 15u^{97} + \dots + 8302550u - 947299) $
c_2	$(u^{23} + 5u^{22} + \dots - 3u - 1)(u^{98} - 37u^{96} + \dots + 5041u - 631)$
c_3	$(u^{23} - u^{21} + \dots + u - 1)(u^{98} + u^{97} + \dots - 633u - 389)$
c_4	$(u^{23} - 2u^{22} + \dots + 2u + 1)(u^{98} - 9u^{97} + \dots - 284u - 61)$
c_5	$(u^{23} - 5u^{22} + \dots - 3u + 1)(u^{98} - 37u^{96} + \dots + 5041u - 631)$
c_6	$(u^{23} - 2u^{22} + \dots + 7u + 1)(u^{98} - u^{97} + \dots + 3881u + 173)$
c_7	$(u^{23} + 2u^{22} + \dots + 2u - 1)(u^{98} - 9u^{97} + \dots - 284u - 61)$
c_8,c_9	$(u^{23} + 3u^{22} + \dots + 5u - 1)(u^{98} + 4u^{97} + \dots - 21u + 1)$
c_{10}	$(u^{23} - u^{21} + \dots + u + 1)(u^{98} + u^{97} + \dots - 633u - 389)$
c_{11}	$(u^{23} + 2u^{22} + \dots + 7u - 1)(u^{98} - u^{97} + \dots + 3881u + 173)$
c_{12}	$(u^{23} - 3u^{22} + \dots + 5u + 1)(u^{98} + 4u^{97} + \dots - 21u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{23} - 6y^{22} + \dots + 26y - 1)$ $\cdot (y^{98} - 47y^{97} + \dots - 51996320363916y + 897375395401)$
c_2,c_5	$(y^{23} - 13y^{22} + \dots + 5y - 1)$ $\cdot (y^{98} - 74y^{97} + \dots - 157589775y + 398161)$
c_3,c_{10}	$(y^{23} - 2y^{22} + \dots - 25y - 1)(y^{98} + 69y^{97} + \dots + 1816611y + 151321)$
c_4, c_7	$(y^{23} - 8y^{22} + \dots + 140y^2 - 1)(y^{98} + 23y^{97} + \dots + 57570y + 3721)$
c_6,c_{11}	$(y^{23} - 26y^{22} + \dots + 55y - 1)$ $\cdot (y^{98} - 91y^{97} + \dots - 16222645y + 29929)$
c_8, c_9, c_{12}	$(y^{23} - 25y^{22} + \dots + 41y - 1)(y^{98} - 102y^{97} + \dots - 139y + 1)$