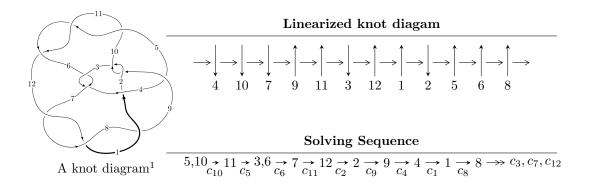
$12a_{1168} \ (K12a_{1168})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.02112 \times 10^{219} u^{97} + 2.42861 \times 10^{219} u^{96} + \dots + 1.88853 \times 10^{219} b + 4.15398 \times 10^{220}, \\ &\quad 7.40552 \times 10^{221} u^{97} - 1.66364 \times 10^{222} u^{96} + \dots + 8.12069 \times 10^{220} a - 2.62723 \times 10^{223}, \\ &\quad u^{98} - u^{97} + \dots + 396 u - 43 \rangle \\ I_2^u &= \langle -18u^{20} + 35u^{19} + \dots + 31b + 81, \ -29u^{20} + 3u^{19} + \dots + 31a + 84, \ u^{21} - 12u^{19} + \dots - u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 119 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.
$$I_1^u = \langle -1.02 \times 10^{219} u^{97} + 2.43 \times 10^{219} u^{96} + \dots + 1.89 \times 10^{219} b + 4.15 \times 10^{220}, \ 7.41 \times 10^{221} u^{97} - 1.66 \times 10^{222} u^{96} + \dots + 8.12 \times 10^{220} a - 2.63 \times 10^{223}, \ u^{98} - u^{97} + \dots + 396 u - 43 \rangle$$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -9.11932u^{97} + 20.4864u^{96} + \dots - 3188.58u + 323.523 \\ 0.540697u^{97} - 1.28598u^{96} + \dots + 214.779u - 21.9958 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -8.60049u^{97} + 19.0570u^{96} + \dots - 2814.24u + 268.683 \\ -3.34750u^{97} + 7.42210u^{96} + \dots - 1148.85u + 116.947 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u^{2} + 1 \\ u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -8.57862u^{97} + 19.2004u^{96} + \dots - 2973.80u + 301.528 \\ 0.540697u^{97} - 1.28598u^{96} + \dots + 214.779u - 21.9958 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -6.09442u^{97} + 13.8926u^{96} + \dots - 2230.11u + 230.240 \\ 1.83837u^{97} - 4.17749u^{96} + \dots + 651.713u - 66.9090 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -2.31310u^{97} + 5.17198u^{96} + \dots + 655.200u + 50.8427 \\ 5.33139u^{97} - 11.6945u^{96} + \dots + 1763.76u - 172.869 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -1.29885u^{97} + 2.94361u^{96} + \dots - 318.314u + 17.2269 \\ 1.39998u^{97} - 3.01976u^{96} + \dots + 427.622u - 39.1893 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -6.34467u^{97} + 13.9931u^{96} + \dots - 2044.24u + 193.324 \\ -0.534636u^{97} + 1.09416u^{96} + \dots - 173.613u + 19.4352 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $19.4904u^{97} 44.0633u^{96} + \cdots + 7002.50u 705.505$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{98} - u^{97} + \dots + 5u - 1$
c_2, c_9	$u^{98} - 33u^{96} + \dots - 1246u - 76$
c_3, c_6	$u^{98} - 2u^{97} + \dots - 6u + 1$
c_4	$u^{98} + 3u^{97} + \dots - 1183u - 187$
c_5, c_{10}, c_{11}	$u^{98} - u^{97} + \dots + 396u - 43$
c_7, c_8, c_{12}	$u^{98} + 3u^{97} + \dots + 32u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{98} - 3y^{97} + \dots + 173y + 1$
c_2, c_9	$y^{98} - 66y^{97} + \dots - 1035260y + 5776$
c_3, c_6	$y^{98} - 54y^{97} + \dots + 132y + 1$
c_4	$y^{98} - 25y^{97} + \dots - 1527771y + 34969$
c_5, c_{10}, c_{11}	$y^{98} - 97y^{97} + \dots + 29288y + 1849$
c_7, c_8, c_{12}	$y^{98} - 105y^{97} + \dots - 568y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.438752 + 0.891193I		
a = 0.362502 + 0.686195I	-5.41570 + 8.09818I	0
b = 1.303190 - 0.450763I		
u = 0.438752 - 0.891193I		
a = 0.362502 - 0.686195I	-5.41570 - 8.09818I	0
b = 1.303190 + 0.450763I		
u = 0.391864 + 0.898326I		
a = 0.903543 - 0.068277I	4.41768 - 2.63930I	0
b = 0.528510 - 0.233621I		
u = 0.391864 - 0.898326I		
a = 0.903543 + 0.068277I	4.41768 + 2.63930I	0
b = 0.528510 + 0.233621I		
u = 0.391411 + 0.898450I		
a = 0.580518 - 0.049871I	2.92084 - 1.91064I	0
b = 0.939209 + 0.499556I		
u = 0.391411 - 0.898450I		
a = 0.580518 + 0.049871I	2.92084 + 1.91064I	0
b = 0.939209 - 0.499556I		
u = 0.938750 + 0.254685I		
a = 0.112409 + 0.225776I	1.79041 - 0.16871I	0
b = 1.381750 - 0.029759I		
u = 0.938750 - 0.254685I		
a = 0.112409 - 0.225776I	1.79041 + 0.16871I	0
b = 1.381750 + 0.029759I		
u = -0.852144 + 0.390335I		
a = 0.578814 - 0.432802I	6.86100 - 2.05030I	0
b = -0.246807 + 0.692959I		
u = -0.852144 - 0.390335I		
a = 0.578814 + 0.432802I	6.86100 + 2.05030I	0
b = -0.246807 - 0.692959I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.915479		
a = -1.31935	-5.21283	0
b = 1.49906		
u = -0.058479 + 0.894470I		
a = 0.577736 - 0.337542I	4.16131 - 2.22766I	0
b = 0.458079 + 0.502884I		
u = -0.058479 - 0.894470I		
a = 0.577736 + 0.337542I	4.16131 + 2.22766I	0
b = 0.458079 - 0.502884I		
u = -0.446241 + 1.029130I		
a = -0.434185 + 0.599991I	1.37895 - 11.98030I	0
b = -1.262990 - 0.482764I		
u = -0.446241 - 1.029130I		
a = -0.434185 - 0.599991I	1.37895 + 11.98030I	0
b = -1.262990 + 0.482764I		
u = 0.792923 + 0.793440I		
a = 0.282718 - 0.510672I	-4.42238 - 2.43268I	0
b = -1.156990 - 0.219396I		
u = 0.792923 - 0.793440I		
a = 0.282718 + 0.510672I	-4.42238 + 2.43268I	0
b = -1.156990 + 0.219396I		
u = 1.132050 + 0.247239I		
a = -0.15095 - 2.01792I	4.99022 + 6.27593I	0
b = -1.047450 + 0.584414I		
u = 1.132050 - 0.247239I		
a = -0.15095 + 2.01792I	4.99022 - 6.27593I	0
b = -1.047450 - 0.584414I		
u = -0.456258 + 0.670176I		
a = -0.171983 + 0.785584I	-5.36300 - 2.92221I	0
b = -1.36966 - 0.40803I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.456258 - 0.670176I		
a = -0.171983 - 0.785584I	-5.36300 + 2.92221I	0
b = -1.36966 + 0.40803I		
u = -0.106869 + 0.787117I		
a = -0.807532 - 0.213605I	-1.42261 + 1.54220I	0
b = -0.822220 + 0.300167I		
u = -0.106869 - 0.787117I		
a = -0.807532 + 0.213605I	-1.42261 - 1.54220I	0
b = -0.822220 - 0.300167I		
u = 0.513550 + 0.603793I		
a = -0.410518 + 0.368788I	5.22586 + 7.17879I	0
b = 0.041349 - 0.849349I		
u = 0.513550 - 0.603793I		
a = -0.410518 - 0.368788I	5.22586 - 7.17879I	0
b = 0.041349 + 0.849349I		
u = 1.210380 + 0.055278I		
a = -0.64806 - 1.90999I	6.09977 + 5.59032I	0
b = 0.729911 + 0.089716I		
u = 1.210380 - 0.055278I		
a = -0.64806 + 1.90999I	6.09977 - 5.59032I	0
b = 0.729911 - 0.089716I		
u = -1.22310		
a = -0.188603	-3.65106	0
b = -1.50392		
u = 0.774695		
a = 0.494111	2.30370	4.50380
b = 0.985875		
u = -1.245610 + 0.001635I		
a = 0.11423 + 1.54880I	1.05719 + 2.40310I	0
b = -0.806424 - 0.186193I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.245610 - 0.001635I		
a = 0.11423 - 1.54880I	1.05719 - 2.40310I	0
b = -0.806424 + 0.186193I		
u = -0.397002 + 0.606555I		
a = -0.06672 - 1.47204I	-5.34711 - 1.16504I	-5.89004 + 4.77110I
b = 1.206540 - 0.037207I		
u = -0.397002 - 0.606555I		
a = -0.06672 + 1.47204I	-5.34711 + 1.16504I	-5.89004 - 4.77110I
b = 1.206540 + 0.037207I		
u = 0.197358 + 0.695563I		
a = -1.05863 - 1.44758I	-0.50881 + 3.77042I	-1.22991 - 5.05475I
b = -1.209490 + 0.094174I		
u = 0.197358 - 0.695563I		
a = -1.05863 + 1.44758I	-0.50881 - 3.77042I	-1.22991 + 5.05475I
b = -1.209490 - 0.094174I		
u = -1.289390 + 0.036606I		
a = -0.57450 - 1.79709I	1.64723 - 2.83590I	0
b = 1.16868 + 0.84371I		
u = -1.289390 - 0.036606I		
a = -0.57450 + 1.79709I	1.64723 + 2.83590I	0
b = 1.16868 - 0.84371I		
u = 1.322300 + 0.134120I		
a = 0.037004 + 1.012680I	2.99763 + 1.06282I	0
b = 0.967591 - 0.296262I		
u = 1.322300 - 0.134120I		
a = 0.037004 - 1.012680I	2.99763 - 1.06282I	0
b = 0.967591 + 0.296262I		
u = -1.329790 + 0.051565I		
a = 0.714474 - 1.092350I	6.66431 - 1.15467I	0
b = -0.429983 + 0.762264I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.329790 - 0.051565I		
a = 0.714474 + 1.092350I	6.66431 + 1.15467I	0
b = -0.429983 - 0.762264I		
u = 0.474672 + 0.455473I		
a = -1.79909 - 1.37357I	4.31172 + 6.23668I	4.72015 - 6.34301I
b = -1.117410 + 0.415698I		
u = 0.474672 - 0.455473I		
a = -1.79909 + 1.37357I	4.31172 - 6.23668I	4.72015 + 6.34301I
b = -1.117410 - 0.415698I		
u = 1.34546		
a = 0.218883	1.09642	0
b = 1.55069		
u = 1.370950 + 0.051265I		
a = 1.02671 + 1.27373I	6.60733 + 2.66078I	0
b = -1.64996 - 0.89336I		
u = 1.370950 - 0.051265I		
a = 1.02671 - 1.27373I	6.60733 - 2.66078I	0
b = -1.64996 + 0.89336I		
u = 1.384850 + 0.203389I		
a = 0.14247 - 1.56229I	3.79747 + 6.54307I	0
b = -1.252250 + 0.535982I		
u = 1.384850 - 0.203389I		
a = 0.14247 + 1.56229I	3.79747 - 6.54307I	0
b = -1.252250 - 0.535982I		
u = -1.378540 + 0.268996I		
a = -0.36382 - 1.84575I	4.49819 - 7.25601I	0
b = 1.103300 + 0.247597I		
u = -1.378540 - 0.268996I		
a = -0.36382 + 1.84575I	4.49819 + 7.25601I	0
b = 1.103300 - 0.247597I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.996538 + 0.995942I		
a = -0.147207 - 0.267647I	2.76808 + 5.25836I	0
b = 1.054030 - 0.308627I		
u = -0.996538 - 0.995942I		
a = -0.147207 + 0.267647I	2.76808 - 5.25836I	0
b = 1.054030 + 0.308627I		
u = -1.412160 + 0.029118I		
a = 0.57366 + 1.41669I	6.77476 + 1.07902I	0
b = -0.398717 - 1.040950I		
u = -1.412160 - 0.029118I		
a = 0.57366 - 1.41669I	6.77476 - 1.07902I	0
b = -0.398717 + 1.040950I		
u = 1.40716 + 0.19956I		
a = -0.442205 - 0.849721I	3.94160 + 1.46877I	0
b = 0.591377 + 0.673716I		
u = 1.40716 - 0.19956I		
a = -0.442205 + 0.849721I	3.94160 - 1.46877I	0
b = 0.591377 - 0.673716I		
u = -0.251196 + 0.515381I		
a = 1.77432 - 0.77605I	-1.42079 - 3.86409I	0.73110 + 8.65417I
b = 1.081420 + 0.350458I		
u = -0.251196 - 0.515381I		
a = 1.77432 + 0.77605I	-1.42079 + 3.86409I	0.73110 - 8.65417I
b = 1.081420 - 0.350458I		
u = -1.37807 + 0.38773I		
a = 0.048832 - 1.378100I	2.80879 - 6.07718I	0
b = 0.969732 + 0.514999I		
u = -1.37807 - 0.38773I		
a = 0.048832 + 1.378100I	2.80879 + 6.07718I	0
b = 0.969732 - 0.514999I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.192714 + 0.527897I		
a = -0.968831 + 0.219684I	-1.44128 + 1.38418I	1.09886 + 2.24692I
b = -0.933289 + 0.345314I		
u = -0.192714 - 0.527897I		
a = -0.968831 - 0.219684I	-1.44128 - 1.38418I	1.09886 - 2.24692I
b = -0.933289 - 0.345314I		
u = 1.43811 + 0.15125I		
a = 0.11771 + 1.79107I	4.84521 + 5.36107I	0
b = -0.04379 - 1.48336I		
u = 1.43811 - 0.15125I		
a = 0.11771 - 1.79107I	4.84521 - 5.36107I	0
b = -0.04379 + 1.48336I		
u = 1.43863 + 0.23949I		
a = 0.69528 - 1.36386I	0.49710 + 4.31155I	0
b = -0.966754 + 0.214159I		
u = 1.43863 - 0.23949I		
a = 0.69528 + 1.36386I	0.49710 - 4.31155I	0
b = -0.966754 - 0.214159I		
u = 0.537595		
a = 3.07677	1.02611	14.3890
b = -0.133007		
u = -0.212695 + 0.474080I		
a = -1.25749 - 0.94890I	-1.49762 + 0.96898I	-3.07162 + 1.33299I
b = -0.144110 - 0.004155I		
u = -0.212695 - 0.474080I		
a = -1.25749 + 0.94890I	-1.49762 - 0.96898I	-3.07162 - 1.33299I
b = -0.144110 + 0.004155I		
u = -1.47303 + 0.19946I		
a = -0.086307 - 1.387760I	10.59140 - 8.83976I	0
b = 1.37450 + 0.50369I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.47303 - 0.19946I		
a = -0.086307 + 1.387760I	10.59140 + 8.83976I	0
b = 1.37450 - 0.50369I		
u = -0.328199 + 0.393122I		
a = 0.615651 + 0.634354I	-0.88687 - 3.29713I	2.45536 + 10.56224I
b = -0.242216 - 0.946347I		
u = -0.328199 - 0.393122I		
a = 0.615651 - 0.634354I	-0.88687 + 3.29713I	2.45536 - 10.56224I
b = -0.242216 + 0.946347I		
u = 0.455525 + 0.197947I		
a = -0.521523 - 0.188750I	0.912741 + 0.481311I	9.01303 - 2.84195I
b = 0.262790 + 0.470646I		
u = 0.455525 - 0.197947I		
a = -0.521523 + 0.188750I	0.912741 - 0.481311I	9.01303 + 2.84195I
b = 0.262790 - 0.470646I		
u = -1.49369 + 0.22603I		
a = -0.24576 + 1.48020I	11.7083 - 10.2755I	0
b = 0.086302 - 1.305070I		
u = -1.49369 - 0.22603I		
a = -0.24576 - 1.48020I	11.7083 + 10.2755I	0
b = 0.086302 + 1.305070I		
u = 1.50061 + 0.25185I		
a = -0.75687 + 1.44958I	1.01132 + 6.33366I	0
b = 1.42098 - 0.76085I		
u = 1.50061 - 0.25185I		
a = -0.75687 - 1.44958I	1.01132 - 6.33366I	0
b = 1.42098 + 0.76085I		
u = 1.45419 + 0.47323I		
a = -0.169611 - 1.187990I	8.89047 + 7.50896I	0
b = -0.880839 + 0.622003I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.45419 - 0.47323I		
a = -0.169611 + 1.187990I	8.89047 - 7.50896I	0
b = -0.880839 - 0.622003I		
u = -1.50465 + 0.33444I		
a = 0.46537 + 1.50163I	0.83454 - 12.54040I	0
b = -1.37280 - 0.67976I		
u = -1.50465 - 0.33444I		
a = 0.46537 - 1.50163I	0.83454 + 12.54040I	0
b = -1.37280 + 0.67976I		
u = -1.52625 + 0.25451I		
a = 0.348897 - 0.782798I	9.49483 - 2.22841I	0
b = -0.685228 + 0.790126I		
u = -1.52625 - 0.25451I		
a = 0.348897 + 0.782798I	9.49483 + 2.22841I	0
b = -0.685228 - 0.790126I		
u = -1.54653 + 0.16048I		
a = -0.906041 - 0.650789I	3.84707 - 0.63312I	0
b = 0.876050 + 0.099100I		
u = -1.54653 - 0.16048I		
a = -0.906041 + 0.650789I	3.84707 + 0.63312I	0
b = 0.876050 - 0.099100I		
u = 1.57420 + 0.05203I		
a = -0.234381 - 1.161370I	14.9919 + 3.4450I	0
b = -0.034751 + 0.993551I		
u = 1.57420 - 0.05203I		
a = -0.234381 + 1.161370I	14.9919 - 3.4450I	0
b = -0.034751 - 0.993551I		
u = 1.52801 + 0.38258I		
a = -0.30158 + 1.46885I	7.6986 + 17.0468I	0
b = 1.37760 - 0.65580I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.52801 - 0.38258I		
a = -0.30158 - 1.46885I	7.6986 - 17.0468I	0
b = 1.37760 + 0.65580I		
u = -1.56430 + 0.22600I		
a = 0.190500 + 0.832144I	11.37440 - 1.57267I	0
b = -1.157610 - 0.482699I		
u = -1.56430 - 0.22600I		
a = 0.190500 - 0.832144I	11.37440 + 1.57267I	0
b = -1.157610 + 0.482699I		
u = -1.62892		
a = 1.44958	10.4262	0
b = -2.05605		
u = 0.205747		
a = 8.19845	-2.91352	-6.84150
b = -1.30217		
u = 0.038209 + 0.193422I		
a = -1.13932 + 3.29511I	2.10943 - 1.86396I	6.2079 + 13.3345I
b = 1.181660 - 0.747103I		
u = 0.038209 - 0.193422I		
a = -1.13932 - 3.29511I	2.10943 + 1.86396I	6.2079 - 13.3345I
b = 1.181660 + 0.747103I		
u = 1.99579		
a = 0.358034	14.2146	0
b = -0.786064		

II.
$$I_2^u = \langle -18u^{20} + 35u^{19} + \dots + 31b + 81, -29u^{20} + 3u^{19} + \dots + 31a + 84, u^{21} - 12u^{19} + \dots - u - 1 \rangle$$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.935484u^{20} - 0.0967742u^{19} + \dots + 9.48387u - 2.70968 \\ 0.580645u^{20} - 1.12903u^{19} + \dots - 1.35484u - 2.61290 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -2.45161u^{20} - 1.67742u^{19} + \dots - 12.6129u + 1.03226 \\ 0.0645161u^{20} - 0.903226u^{19} + \dots + 1.51613u + 1.70968 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u^{2} + 1 \\ u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 1.51613u^{20} - 1.22581u^{19} + \dots + 8.12903u - 5.32258 \\ 0.580645u^{20} - 1.12903u^{19} + \dots - 1.35484u - 2.61290 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 2.41935u^{20} + 0.129032u^{19} + \dots + 6.35484u - 1.38710 \\ -0.0645161u^{20} - 0.0967742u^{19} + \dots - 2.51613u - 0.709677 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0967742u^{20} + 1.64516u^{19} + \dots - 2.222581u + 0.0645161 \\ 0.129032u^{20} + 3.19355u^{19} + \dots + 4.03226u + 3.41935 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 1.58065u^{20} - 0.129032u^{19} + \dots + 7.64516u - 7.61290 \\ 1.41935u^{20} + 2.12903u^{19} + \dots + 2.35484u + 1.61290 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -2.38710u^{20} - 1.58065u^{19} + \dots - 13.0968u + 2.74194 \\ 0.935484u^{20} - 0.0967742u^{19} + \dots + 3.48387u + 2.29032 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{20}{31}u^{20} + \frac{216}{31}u^{19} + \dots + \frac{780}{31}u + \frac{220}{31}u^{19} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{21} - 6u^{20} + \dots - 2u^2 + 1$
c_2	$u^{21} + u^{20} + \dots + 3u - 1$
<i>c</i> ₃	$u^{21} + 3u^{20} + \dots - 3u - 1$
C_4	$u^{21} - 6u^{19} + \dots + 2u + 1$
<i>C</i> ₅	$u^{21} - 12u^{19} + \dots - u + 1$
<i>c</i> ₆	$u^{21} - 3u^{20} + \dots - 3u + 1$
c_{7}, c_{8}	$u^{21} - 14u^{19} + \dots - u - 1$
c_9	$u^{21} - u^{20} + \dots + 3u + 1$
c_{10}, c_{11}	$u^{21} - 12u^{19} + \dots - u - 1$
c_{12}	$u^{21} - 14u^{19} + \dots - u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{21} - 6y^{20} + \dots + 4y - 1$
c_2, c_9	$y^{21} - 21y^{20} + \dots + 11y - 1$
c_3, c_6	$y^{21} - 21y^{20} + \dots + 21y - 1$
c_4	$y^{21} - 12y^{20} + \dots + 16y - 1$
c_5, c_{10}, c_{11}	$y^{21} - 24y^{20} + \dots + 17y - 1$
c_7, c_8, c_{12}	$y^{21} - 28y^{20} + \dots + 13y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.674615 + 0.691211I		
a = -0.741284 + 0.872608I	3.65927 + 4.03818I	3.47178 - 3.14396I
b = -0.825088 + 0.244562I		
u = -0.674615 - 0.691211I		
a = -0.741284 - 0.872608I	3.65927 - 4.03818I	3.47178 + 3.14396I
b = -0.825088 - 0.244562I		
u = 1.20770		
a = 0.862653	-0.227032	-1.33690
b = 1.41027		
u = -1.23747		
a = 0.0698864	-3.36420	15.3300
b = -1.55801		
u = -1.255340 + 0.270736I		
a = 0.24302 - 2.14553I	5.95829 - 7.42742I	8.04674 + 8.80531I
b = 0.957058 + 0.403999I		
u = -1.255340 - 0.270736I		
a = 0.24302 + 2.14553I	5.95829 + 7.42742I	8.04674 - 8.80531I
b = 0.957058 - 0.403999I		
u = 0.300005 + 0.615985I		
a = 1.184700 - 0.024718I	-1.87137 - 1.86348I	-6.45473 + 8.21734I
b = 0.790924 + 0.339359I		
u = 0.300005 - 0.615985I		
a = 1.184700 + 0.024718I	-1.87137 + 1.86348I	-6.45473 - 8.21734I
b = 0.790924 - 0.339359I		
u = 1.320720 + 0.131954I		
a = -0.95135 - 1.34628I	5.69652 + 3.26176I	5.56127 - 4.00526I
b = 1.020660 + 0.824318I		
u = 1.320720 - 0.131954I		
a = -0.95135 + 1.34628I	5.69652 - 3.26176I	5.56127 + 4.00526I
b = 1.020660 - 0.824318I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.671580		
a = 2.57615	-2.29162	7.08010
b = -1.29809		
u = 1.374880 + 0.258894I		
a = 0.33045 - 1.63311I	2.06818 + 5.09061I	2.23390 - 4.25924I
b = -1.025960 + 0.595179I		
u = 1.374880 - 0.258894I		
a = 0.33045 + 1.63311I	2.06818 - 5.09061I	2.23390 + 4.25924I
b = -1.025960 - 0.595179I		
u = -0.591959		
a = -1.86907	-5.81449	-9.97790
b = 1.38648		
u = 0.371508 + 0.405795I		
a = 0.296302 - 0.282231I	2.16927 - 1.42059I	6.69492 - 3.05445I
b = -1.234530 + 0.499833I		
u = 0.371508 - 0.405795I		
a = 0.296302 + 0.282231I	2.16927 + 1.42059I	6.69492 + 3.05445I
b = -1.234530 - 0.499833I		
u = -1.44756 + 0.09102I		
a = -0.215464 - 0.503314I	5.06058 - 0.15354I	7.92430 - 1.48170I
b = -0.221826 + 0.307903I		
u = -1.44756 - 0.09102I		
a = -0.215464 + 0.503314I	5.06058 + 0.15354I	7.92430 + 1.48170I
b = -0.221826 - 0.307903I		
u = -1.64477		
a = -1.36791	10.3482	-42.6970
b = 1.97611		
u = -0.331409		
a = -4.38784	0.635448	-6.89680
b = -0.516198		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.94714		
a = -0.176603	14.4498	23.5420
b = 0.676947		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{21} - 6u^{20} + \dots - 2u^2 + 1)(u^{98} - u^{97} + \dots + 5u - 1) $
c_2	$(u^{21} + u^{20} + \dots + 3u - 1)(u^{98} - 33u^{96} + \dots - 1246u - 76)$
c_3	$(u^{21} + 3u^{20} + \dots - 3u - 1)(u^{98} - 2u^{97} + \dots - 6u + 1)$
c_4	$(u^{21} - 6u^{19} + \dots + 2u + 1)(u^{98} + 3u^{97} + \dots - 1183u - 187)$
<i>C</i> ₅	$(u^{21} - 12u^{19} + \dots - u + 1)(u^{98} - u^{97} + \dots + 396u - 43)$
<i>c</i> ₆	$(u^{21} - 3u^{20} + \dots - 3u + 1)(u^{98} - 2u^{97} + \dots - 6u + 1)$
c_7, c_8	$(u^{21} - 14u^{19} + \dots - u - 1)(u^{98} + 3u^{97} + \dots + 32u + 1)$
<i>C</i> 9	$(u^{21} - u^{20} + \dots + 3u + 1)(u^{98} - 33u^{96} + \dots - 1246u - 76)$
c_{10}, c_{11}	$(u^{21} - 12u^{19} + \dots - u - 1)(u^{98} - u^{97} + \dots + 396u - 43)$
c_{12}	$(u^{21} - 14u^{19} + \dots - u + 1)(u^{98} + 3u^{97} + \dots + 32u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{21} - 6y^{20} + \dots + 4y - 1)(y^{98} - 3y^{97} + \dots + 173y + 1)$
c_2, c_9	$(y^{21} - 21y^{20} + \dots + 11y - 1)(y^{98} - 66y^{97} + \dots - 1035260y + 5776)$
c_3, c_6	$(y^{21} - 21y^{20} + \dots + 21y - 1)(y^{98} - 54y^{97} + \dots + 132y + 1)$
c_4	$(y^{21} - 12y^{20} + \dots + 16y - 1)(y^{98} - 25y^{97} + \dots - 1527771y + 34969)$
c_5, c_{10}, c_{11}	$(y^{21} - 24y^{20} + \dots + 17y - 1)(y^{98} - 97y^{97} + \dots + 29288y + 1849)$
c_7, c_8, c_{12}	$(y^{21} - 28y^{20} + \dots + 13y - 1)(y^{98} - 105y^{97} + \dots - 568y + 1)$