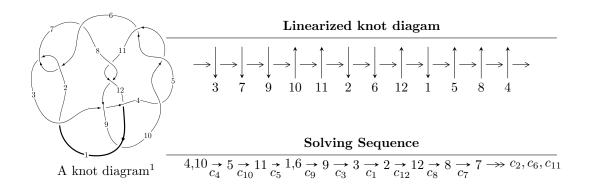
$12a_{0573} (K12a_{0573})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 7.55432 \times 10^{231} u^{94} - 3.94979 \times 10^{231} u^{93} + \dots + 5.03123 \times 10^{233} b + 8.02484 \times 10^{234}, \\ &- 6.27990 \times 10^{234} u^{94} + 4.91845 \times 10^{234} u^{93} + \dots + 3.84051 \times 10^{235} a - 5.98614 \times 10^{237}, \\ &u^{95} - u^{94} + \dots + 998 u - 229 \rangle \\ I_2^u &= \langle -u^{21} + 12 u^{19} + \dots + b + 1, \ -u^{23} + 13 u^{21} + \dots + a + u, \ u^{24} - 14 u^{22} + \dots + 2 u - 1 \rangle \end{split}$$

* 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.
$$I_1^u = \langle 7.55 \times 10^{231} u^{94} - 3.95 \times 10^{231} u^{93} + \dots + 5.03 \times 10^{233} b + 8.02 \times 10^{234}, \ -6.28 \times 10^{234} u^{94} + 4.92 \times 10^{234} u^{93} + \dots + 3.84 \times 10^{235} a - 5.99 \times 10^{237}, \ u^{95} - u^{94} + \dots + 998 u - 229 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.163517u^{94} - 0.128068u^{93} + \cdots - 9.60245u + 155.869 \\ -0.0150148u^{94} + 0.00785054u^{93} + \cdots + 7.03716u - 15.9501 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{2} + 1 \\ u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.149130u^{94} - 0.101058u^{93} + \cdots - 50.2226u + 125.337 \\ -0.0388424u^{94} + 0.0317280u^{93} + \cdots + 9.44989u - 34.1884 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.199431u^{94} + 0.152151u^{93} + \cdots + 59.9789u - 181.897 \\ 0.0125942u^{94} - 0.0169786u^{93} + \cdots + 12.7547u + 21.1136 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.242375u^{94} - 0.182145u^{93} + \cdots + 44.1731u + 223.500 \\ -0.00939841u^{94} + 0.00780443u^{93} + \cdots - 6.28912u - 14.2852 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.178532u^{94} - 0.135918u^{93} + \cdots - 16.6396u + 171.819 \\ -0.0150148u^{94} + 0.00785054u^{93} + \cdots + 7.03716u - 15.9501 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.0921952u^{94} + 0.0767583u^{93} + \cdots + 13.7278u - 100.851 \\ -4.09274 \times 10^{-6}u^{94} + 0.00284681u^{93} + \cdots + 4.30488u - 3.91892 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.0978961u^{94} + 0.0863550u^{93} + \cdots + 12.3830u - 113.021 \\ -0.00892542u^{94} + 0.0100792u^{93} + \cdots + 13.6694u - 5.66045 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.418076u^{94} + 0.342082u^{93} + \cdots 2.01058u 379.553$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{95} + 27u^{94} + \dots + 25u + 1$
c_2, c_6	$u^{95} - u^{94} + \dots + u + 1$
<i>c</i> ₃	$u^{95} - u^{94} + \dots - 3835u + 845$
c_4, c_5, c_{10}	$u^{95} + u^{94} + \dots + 998u + 229$
c_8, c_{11}	$u^{95} + u^{94} + \dots - 18u + 1$
<i>c</i> 9	$u^{95} + 7u^{94} + \dots - 15768u + 1413$
c_{12}	$u^{95} + 8u^{94} + \dots + 17711u + 2447$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{95} + 93y^{94} + \dots + 225y - 1$
c_2, c_6	$y^{95} - 27y^{94} + \dots + 25y - 1$
c_3	$y^{95} + 31y^{94} + \dots - 12307425y - 714025$
c_4, c_5, c_{10}	$y^{95} - 109y^{94} + \dots + 3539736y - 52441$
c_8, c_{11}	$y^{95} - 93y^{94} + \dots + 92y - 1$
<i>c</i> ₉	$y^{95} + 35y^{94} + \dots + 42933762y - 1996569$
c_{12}	$y^{95} - 36y^{94} + \dots + 298346619y - 5987809$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.993324 + 0.113886I		
a = -0.211155 - 0.035291I	1.75972 - 0.04833I	0
b = 0.474145 + 0.672640I		
u = -0.993324 - 0.113886I		
a = -0.211155 + 0.035291I	1.75972 + 0.04833I	0
b = 0.474145 - 0.672640I		
u = 0.996175 + 0.200215I		
a = 0.444838 - 0.245934I	1.26759 + 4.32682I	0
b = 0.027663 - 0.803448I		
u = 0.996175 - 0.200215I		
a = 0.444838 + 0.245934I	1.26759 - 4.32682I	0
b = 0.027663 + 0.803448I		
u = -0.696166 + 0.748256I		
a = 0.582098 - 0.191531I	1.18820 + 2.86171I	0
b = 0.767229 + 0.497403I		
u = -0.696166 - 0.748256I		
a = 0.582098 + 0.191531I	1.18820 - 2.86171I	0
b = 0.767229 - 0.497403I		
u = -0.535987 + 0.636878I		
a = 0.234758 - 1.306110I	0.91102 - 7.57603I	0
b = 1.134930 - 0.783701I		
u = -0.535987 - 0.636878I		
a = 0.234758 + 1.306110I	0.91102 + 7.57603I	0
b = 1.134930 + 0.783701I		
u = 0.731945 + 0.345316I		
a = 0.008581 - 1.276130I	3.71584 + 3.90274I	0
b = -1.14528 - 0.86552I		
u = 0.731945 - 0.345316I		
a = 0.008581 + 1.276130I	3.71584 - 3.90274I	0
b = -1.14528 + 0.86552I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.225383 + 0.749670I		
a = -1.118140 - 0.145739I	1.56332 - 0.38085I	0
b = -0.758397 + 0.405896I		
u = 0.225383 - 0.749670I		
a = -1.118140 + 0.145739I	1.56332 + 0.38085I	0
b = -0.758397 - 0.405896I		
u = -0.777312 + 0.950438I		
a = 0.270161 - 1.108820I	8.6020 - 12.0514I	0
b = 1.087020 - 0.803080I		
u = -0.777312 - 0.950438I		
a = 0.270161 + 1.108820I	8.6020 + 12.0514I	0
b = 1.087020 + 0.803080I		
u = 0.840314 + 0.900458I		
a = -0.241403 - 1.100060I	9.11645 + 5.73244I	0
b = -1.089160 - 0.808193I		
u = 0.840314 - 0.900458I		
a = -0.241403 + 1.100060I	9.11645 - 5.73244I	0
b = -1.089160 + 0.808193I		
u = -0.757972 + 0.007541I		
a = -0.829238 + 0.252949I	1.67673 - 0.14877I	0
b = 0.532454 - 0.236617I		
u = -0.757972 - 0.007541I		
a = -0.829238 - 0.252949I	1.67673 + 0.14877I	0
b = 0.532454 + 0.236617I		
u = 0.623797 + 0.414333I		
a = 0.228053 + 1.275920I	8.09696 - 1.35610I	0
b = -0.95365 + 1.12669I		
u = 0.623797 - 0.414333I		
a = 0.228053 - 1.275920I	8.09696 + 1.35610I	0
b = -0.95365 - 1.12669I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.527293 + 0.500564I		
a = -0.206299 + 1.273140I	7.47429 - 5.04540I	0
b = 0.89031 + 1.16063I		
u = -0.527293 - 0.500564I		
a = -0.206299 - 1.273140I	7.47429 + 5.04540I	0
b = 0.89031 - 1.16063I		
u = -0.549773 + 0.459183I		
a = -2.27573 - 0.21620I	7.54560 + 1.65750I	8.73859 + 0.I
b = 0.733117 - 0.391883I		
u = -0.549773 - 0.459183I		
a = -2.27573 + 0.21620I	7.54560 - 1.65750I	8.73859 + 0.I
b = 0.733117 + 0.391883I		
u = -0.526692 + 0.472816I		
a = -1.214460 + 0.533716I	3.39672 - 0.91258I	0. + 5.79505I
b = -0.693000 + 0.127743I		
u = -0.526692 - 0.472816I		
a = -1.214460 - 0.533716I	3.39672 + 0.91258I	0 5.79505I
b = -0.693000 - 0.127743I		
u = 0.485680 + 1.199540I		
a = -0.768169 + 0.079709I	7.84874 + 1.09621I	0
b = -0.843819 + 0.441106I		
u = 0.485680 - 1.199540I		
a = -0.768169 - 0.079709I	7.84874 - 1.09621I	0
b = -0.843819 - 0.441106I		
u = 0.586251 + 0.391592I		
a = -0.06845 + 2.24487I	2.92370 + 7.46960I	0 9.77082I
b = 0.797329 + 0.528318I		
u = 0.586251 - 0.391592I		
a = -0.06845 - 2.24487I	2.92370 - 7.46960I	0. + 9.77082I
b = 0.797329 - 0.528318I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.569131 + 0.398506I		
a = 1.329510 + 0.475836I	2.74972 - 4.66676I	0
b = 0.707955 + 0.063430I		
u = 0.569131 - 0.398506I		
a = 1.329510 - 0.475836I	2.74972 + 4.66676I	0
b = 0.707955 - 0.063430I		
u = -0.569144 + 1.190100I		
a = 0.732157 + 0.070791I	7.77827 + 5.11561I	0
b = 0.845166 + 0.455105I		
u = -0.569144 - 1.190100I		
a = 0.732157 - 0.070791I	7.77827 - 5.11561I	0
b = 0.845166 - 0.455105I		
u = 1.317630 + 0.080427I		
a = 0.367515 - 1.052560I	4.85394 + 3.18451I	0
b = -1.004110 - 0.841707I		
u = 1.317630 - 0.080427I		
a = 0.367515 + 1.052560I	4.85394 - 3.18451I	0
b = -1.004110 + 0.841707I		
u = 1.314690 + 0.245234I		
a = 0.194689 - 0.877843I	4.92156 + 3.67064I	0
b = -1.060160 - 0.841163I		
u = 1.314690 - 0.245234I		
a = 0.194689 + 0.877843I	4.92156 - 3.67064I	0
b = -1.060160 + 0.841163I		
u = 0.355208 + 0.557436I		
a = 0.29330 + 1.68999I	-2.52906 + 3.25489I	-5.36852 - 7.70712I
b = 0.660249 + 0.621988I		
u = 0.355208 - 0.557436I		
a = 0.29330 - 1.68999I	-2.52906 - 3.25489I	-5.36852 + 7.70712I
b = 0.660249 - 0.621988I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.341290 + 0.156139I		
a = -0.409309 - 0.555943I	2.86230 - 0.93905I	0
b = 1.19066 - 0.80574I		
u = -1.341290 - 0.156139I		
a = -0.409309 + 0.555943I	2.86230 + 0.93905I	0
b = 1.19066 + 0.80574I		
u = 0.461528 + 0.457013I		
a = 2.56177 - 0.19449I	7.56513 + 4.46649I	8.81708 - 7.74250I
b = -0.721443 - 0.392720I		
u = 0.461528 - 0.457013I		
a = 2.56177 + 0.19449I	7.56513 - 4.46649I	8.81708 + 7.74250I
b = -0.721443 + 0.392720I		
u = 0.580018 + 0.245313I		
a = 0.910584 - 0.070935I	-1.77575 - 0.09596I	-5.41324 - 1.06240I
b = 0.410463 - 0.198520I		
u = 0.580018 - 0.245313I		
a = 0.910584 + 0.070935I	-1.77575 + 0.09596I	-5.41324 + 1.06240I
b = 0.410463 + 0.198520I		
u = -0.526602 + 0.306350I		
a = -0.04969 + 2.53351I	3.42392 - 1.76238I	3.82353 + 4.55359I
b = -0.772656 + 0.489239I		
u = -0.526602 - 0.306350I		
a = -0.04969 - 2.53351I	3.42392 + 1.76238I	3.82353 - 4.55359I
b = -0.772656 - 0.489239I		
u = 0.079977 + 0.559249I		
a = 0.133715 + 1.223310I	-1.49124 - 1.49233I	-5.62608 + 3.32257I
b = 0.377541 + 0.807990I		
u = 0.079977 - 0.559249I		
a = 0.133715 - 1.223310I	-1.49124 + 1.49233I	-5.62608 - 3.32257I
b = 0.377541 - 0.807990I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.42584 + 0.19357I		
a = -0.586636 - 0.963582I	3.21152 - 5.95296I	0
b = 0.984999 - 0.752996I		
u = -1.42584 - 0.19357I		
a = -0.586636 + 0.963582I	3.21152 + 5.95296I	0
b = 0.984999 + 0.752996I		
u = -0.247811 + 0.438822I		
a = -0.85477 + 1.26768I	0.242670 - 1.208790I	2.95131 + 5.26404I
b = -0.551665 + 0.453931I		
u = -0.247811 - 0.438822I		
a = -0.85477 - 1.26768I	0.242670 + 1.208790I	2.95131 - 5.26404I
b = -0.551665 - 0.453931I		
u = -1.49976 + 0.01728I		
a = 0.810271 + 0.854161I	7.49239 + 2.42085I	0
b = -0.805895 + 0.092612I		
u = -1.49976 - 0.01728I		
a = 0.810271 - 0.854161I	7.49239 - 2.42085I	0
b = -0.805895 - 0.092612I		
u = 1.53993 + 0.02243I		
a = -0.351125 + 0.474031I	6.51260 + 1.23119I	0
b = 1.94756 + 1.32394I		
u = 1.53993 - 0.02243I		
a = -0.351125 - 0.474031I	6.51260 - 1.23119I	0
b = 1.94756 - 1.32394I		
u = -1.54816 + 0.13261I		
a = 1.34405 - 0.84465I	14.3987 - 6.5613I	0
b = -0.748690 - 0.097086I		
u = -1.54816 - 0.13261I		
a = 1.34405 + 0.84465I	14.3987 + 6.5613I	0
b = -0.748690 + 0.097086I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.55206 + 0.22023I		
a = 0.222873 + 0.723008I	7.73078 - 3.20289I	0
b = -0.861005 + 0.084857I		
u = -1.55206 - 0.22023I		
a = 0.222873 - 0.723008I	7.73078 + 3.20289I	0
b = -0.861005 - 0.084857I		
u = 1.57112 + 0.07499I		
a = 0.567488 - 1.165570I	10.66090 + 3.06605I	0
b = -0.917156 - 0.802718I		
u = 1.57112 - 0.07499I		
a = 0.567488 + 1.165570I	10.66090 - 3.06605I	0
b = -0.917156 + 0.802718I		
u = 1.56317 + 0.17546I		
a = -0.503473 + 0.755596I	7.95394 + 10.44560I	0
b = 1.55777 + 0.93066I		
u = 1.56317 - 0.17546I		
a = -0.503473 - 0.755596I	7.95394 - 10.44560I	0
b = 1.55777 - 0.93066I		
u = 1.56634 + 0.14849I		
a = -0.039530 - 0.517153I	14.5760 + 7.3982I	0
b = 1.16585 - 1.79493I		
u = 1.56634 - 0.14849I		
a = -0.039530 + 0.517153I	14.5760 - 7.3982I	0
b = 1.16585 + 1.79493I		
u = 1.57870 + 0.11756I		
a = -1.35070 - 0.73522I	14.8325 + 0.3716I	0
b = 0.746770 - 0.084627I		
u = 1.57870 - 0.11756I		
a = -1.35070 + 0.73522I	14.8325 - 0.3716I	0
b = 0.746770 + 0.084627I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.58417 + 0.11388I		
a = -0.597493 - 1.158790I	10.36980 - 9.31906I	0
b = 0.913257 - 0.790219I		
u = -1.58417 - 0.11388I		
a = -0.597493 + 1.158790I	10.36980 + 9.31906I	0
b = 0.913257 + 0.790219I		
u = -1.59785 + 0.07643I		
a = 0.028419 - 0.523663I	10.40840 + 3.06913I	0
b = 0.991167 - 0.861468I		
u = -1.59785 - 0.07643I		
a = 0.028419 + 0.523663I	10.40840 - 3.06913I	0
b = 0.991167 + 0.861468I		
u = 1.59349 + 0.14165I		
a = -0.017656 - 0.572531I	10.74830 + 3.27026I	0
b = -1.012300 - 0.857871I		
u = 1.59349 - 0.14165I		
a = -0.017656 + 0.572531I	10.74830 - 3.27026I	0
b = -1.012300 + 0.857871I		
u = -1.59903 + 0.10260I		
a = 0.105523 - 0.545341I	15.7568 - 0.4814I	0
b = -1.34677 - 1.67664I		
u = -1.59903 - 0.10260I		
a = 0.105523 + 0.545341I	15.7568 + 0.4814I	0
b = -1.34677 + 1.67664I		
u = -1.60642 + 0.09615I		
a = 0.379213 + 0.671654I	11.67530 - 5.54466I	0
b = -1.60005 + 1.12283I		
u = -1.60642 - 0.09615I		
a = 0.379213 - 0.671654I	11.67530 + 5.54466I	0
b = -1.60005 - 1.12283I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.365909 + 0.100941I		
a = -0.32398 - 1.55574I	-0.161589 - 0.831554I	5.75339 + 10.80698I
b = 1.40999 - 0.94117I		
u = -0.365909 - 0.100941I		
a = -0.32398 + 1.55574I	-0.161589 + 0.831554I	5.75339 - 10.80698I
b = 1.40999 + 0.94117I		
u = 1.64398		
a = -0.845264	10.0916	0
b = 0.801737		
u = 1.65548 + 0.07001I		
a = -0.496986 + 0.319634I	10.15280 + 0.15676I	0
b = 0.840569 + 0.037887I		
u = 1.65548 - 0.07001I		
a = -0.496986 - 0.319634I	10.15280 - 0.15676I	0
b = 0.840569 - 0.037887I		
u = 1.65913 + 0.30071I		
a = -0.408789 + 0.936143I	16.6298 + 16.7549I	0
b = 1.35310 + 0.94377I		
u = 1.65913 - 0.30071I		
a = -0.408789 - 0.936143I	16.6298 - 16.7549I	0
b = 1.35310 - 0.94377I		
u = -1.67341 + 0.26685I		
a = 0.390471 + 0.904092I	17.4854 - 10.1473I	0
b = -1.36919 + 0.97309I		
u = -1.67341 - 0.26685I		
a = 0.390471 - 0.904092I	17.4854 + 10.1473I	0
b = -1.36919 - 0.97309I		
u = 0.243236 + 0.006215I		
a = 1.57504 - 4.32600I	1.46420 - 2.55510I	5.02686 + 10.79108I
b = -0.694360 + 0.394916I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.243236 - 0.006215I		
a = 1.57504 + 4.32600I	1.46420 + 2.55510I	5.02686 - 10.79108I
b = -0.694360 - 0.394916I		
u = -1.71967 + 0.41859I		
a = -0.120337 + 0.511463I	15.0760 - 7.3587I	0
b = -0.903718 + 0.083096I		
u = -1.71967 - 0.41859I		
a = -0.120337 - 0.511463I	15.0760 + 7.3587I	0
b = -0.903718 - 0.083096I		
u = 1.76133 + 0.37373I		
a = 0.085143 + 0.455559I	15.5208 + 1.0744I	0
b = 0.904333 + 0.074033I		
u = 1.76133 - 0.37373I		
a = 0.085143 - 0.455559I	15.5208 - 1.0744I	0
b = 0.904333 - 0.074033I		

$$\text{II. } I_2^u = \\ \langle -u^{21} + 12u^{19} + \dots + b + 1, \ -u^{23} + 13u^{21} + \dots + a + u, \ u^{24} - 14u^{22} + \dots + 2u - 1 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} u^{23} - 13u^{21} + \dots - 2u^{2} - u \\ u^{21} - 12u^{19} + \dots - 2u - 1 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{2} + 1 \\ u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{23} - 12u^{21} + \dots + 2u^{4} + 3u^{3} \\ -u^{23} + 13u^{21} + \dots + 2u^{2} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} u^{23} + 2u^{22} + \dots - 3u + 3 \\ -u^{22} + 12u^{20} + \dots - 2u^{3} - 3u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 2u^{22} - u^{21} + \dots - 2u + 3 \\ u^{23} - u^{22} + \dots - 3u^{2} - 1 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u^{23} - 14u^{21} + \dots + u + 1 \\ u^{21} - 12u^{19} + \dots - 2u - 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{21} - 13u^{19} + \dots + 5u^{2} - 1 \\ u^{19} - 11u^{17} + \dots + 3u + 1 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{21} - 12u^{19} + \dots + 2u^{2} + u \\ -u^{23} + 12u^{21} + \dots + 2u + 1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $7u^{23} - 91u^{21} - 9u^{20} + 499u^{19} + 104u^{18} - 1486u^{17} - 503u^{16} + 2560u^{15} + 1308u^{14} - 2447u^{13} - 1942u^{12} + 948u^{11} + 1573u^{10} + 371u^9 - 510u^8 - 550u^7 - 146u^6 + 214u^5 + 169u^4 - 12u^3 - 46u^2 - 7u + 9$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{24} - 10u^{23} + \dots - 17u + 1$
c_2	$u^{24} - 5u^{22} + \dots + u + 1$
c_3	$u^{24} + 4u^{22} + \dots - u - 1$
c_4, c_5	$u^{24} - 14u^{22} + \dots + 2u - 1$
c_6	$u^{24} - 5u^{22} + \dots - u + 1$
C ₇	$u^{24} + 10u^{23} + \dots + 17u + 1$
<i>c</i> ₈	$u^{24} - 4u^{23} + \dots - 4u + 1$
c_9	$u^{24} + 4u^{22} + \dots - 2u + 1$
c_{10}	$u^{24} - 14u^{22} + \dots - 2u - 1$
c_{11}	$u^{24} + 4u^{23} + \dots + 4u + 1$
c_{12}	$u^{24} - 3u^{23} + \dots - 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{24} + 18y^{23} + \dots - 21y + 1$
c_{2}, c_{6}	$y^{24} - 10y^{23} + \dots - 17y + 1$
<i>c</i> ₃	$y^{24} + 8y^{23} + \dots - 3y + 1$
c_4, c_5, c_{10}	$y^{24} - 28y^{23} + \dots - 12y + 1$
c_8,c_{11}	$y^{24} - 24y^{23} + \dots - 16y + 1$
<i>C</i> 9	$y^{24} + 8y^{23} + \dots + 14y + 1$
c_{12}	$y^{24} - 11y^{23} + \dots - 3y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.230070 + 0.129407I		
a = 0.644352 - 1.071010I	5.43238 + 6.88848I	6.83763 - 6.74493I
b = -1.216520 - 0.600965I		
u = 1.230070 - 0.129407I		
a = 0.644352 + 1.071010I	5.43238 - 6.88848I	6.83763 + 6.74493I
b = -1.216520 + 0.600965I		
u = -1.228340 + 0.156795I		
a = -0.482987 - 1.194290I	5.98051 - 1.92070I	7.90871 + 0.24735I
b = 1.092080 - 0.617370I		
u = -1.228340 - 0.156795I		
a = -0.482987 + 1.194290I	5.98051 + 1.92070I	7.90871 - 0.24735I
b = 1.092080 + 0.617370I		
u = -0.615317 + 0.357755I		
a = 1.01722 - 1.07128I	3.65993 + 0.05326I	8.06301 - 1.11885I
b = 0.748487 + 0.215306I		
u = -0.615317 - 0.357755I		
a = 1.01722 + 1.07128I	3.65993 - 0.05326I	8.06301 + 1.11885I
b = 0.748487 - 0.215306I		
u = -0.048840 + 0.698393I		
a = 0.060103 - 1.169090I	7.27713 + 3.12415I	6.44408 - 2.47099I
b = 0.055788 + 0.571780I		
u = -0.048840 - 0.698393I		
a = 0.060103 + 1.169090I	7.27713 - 3.12415I	6.44408 + 2.47099I
b = 0.055788 - 0.571780I		
u = -1.295160 + 0.193439I		
a = -0.106169 - 0.988293I	4.44804 - 4.30220I	2.60756 + 9.11283I
b = 0.862717 - 0.887500I		
u = -1.295160 - 0.193439I		
a = -0.106169 + 0.988293I	4.44804 + 4.30220I	2.60756 - 9.11283I
b = 0.862717 + 0.887500I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.309930 + 0.117543I		
a = 0.316375 - 0.663440I	3.14095 + 1.67218I	5.22475 - 5.27037I
b = -1.34292 - 1.16008I		
u = 1.309930 - 0.117543I		
a = 0.316375 + 0.663440I	3.14095 - 1.67218I	5.22475 + 5.27037I
b = -1.34292 + 1.16008I		
u = 0.615545 + 0.285268I		
a = -1.15416 - 0.96062I	3.09785 - 5.37231I	7.44446 + 8.13967I
b = -0.825497 + 0.193760I		
u = 0.615545 - 0.285268I		
a = -1.15416 + 0.96062I	3.09785 + 5.37231I	7.44446 - 8.13967I
b = -0.825497 - 0.193760I		
u = -0.430788 + 0.491614I		
a = 0.621346 - 1.033540I	1.25129 + 1.87641I	1.243241 + 0.649208I
b = 0.580994 + 0.439922I		
u = -0.430788 - 0.491614I		
a = 0.621346 + 1.033540I	1.25129 - 1.87641I	1.243241 - 0.649208I
b = 0.580994 - 0.439922I		
u = -1.54136		
a = 0.421027	6.63958	5.81920
b = -1.72637		
u = -1.56893 + 0.19019I		
a = 0.584862 - 0.468778I	13.1270 - 6.4884I	4.93291 + 3.21494I
b = -0.412874 - 0.758253I		
u = -1.56893 - 0.19019I		
a = 0.584862 + 0.468778I	13.1270 + 6.4884I	4.93291 - 3.21494I
b = -0.412874 + 0.758253I		
u = 0.350431 + 0.225016I		
a = -0.677449 - 0.523119I	-0.320379 - 0.358730I	-0.69353 - 3.81560I
b = -1.095810 + 0.583351I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.350431 - 0.225016I		
a = -0.677449 + 0.523119I	-0.320379 + 0.358730I	-0.69353 + 3.81560I
b = -1.095810 - 0.583351I		
u = 1.61370 + 0.15698I		
a = -0.658388 - 0.364034I	13.74470 + 0.17618I	5.50808 + 2.02702I
b = 0.549354 - 0.583456I		
u = 1.61370 - 0.15698I		
a = -0.658388 + 0.364034I	13.74470 - 0.17618I	5.50808 - 2.02702I
b = 0.549354 + 0.583456I		
u = 1.67680		
a = -0.751232	9.85602	-14.8610
b = 0.734771		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{24} - 10u^{23} + \dots - 17u + 1)(u^{95} + 27u^{94} + \dots + 25u + 1) $
c_2	$(u^{24} - 5u^{22} + \dots + u + 1)(u^{95} - u^{94} + \dots + u + 1)$
<i>c</i> ₃	$(u^{24} + 4u^{22} + \dots - u - 1)(u^{95} - u^{94} + \dots - 3835u + 845)$
c_4, c_5	$(u^{24} - 14u^{22} + \dots + 2u - 1)(u^{95} + u^{94} + \dots + 998u + 229)$
<i>c</i> ₆	$(u^{24} - 5u^{22} + \dots - u + 1)(u^{95} - u^{94} + \dots + u + 1)$
	$(u^{24} + 10u^{23} + \dots + 17u + 1)(u^{95} + 27u^{94} + \dots + 25u + 1)$
<i>C</i> ₈	$(u^{24} - 4u^{23} + \dots - 4u + 1)(u^{95} + u^{94} + \dots - 18u + 1)$
c_9	$(u^{24} + 4u^{22} + \dots - 2u + 1)(u^{95} + 7u^{94} + \dots - 15768u + 1413)$
c_{10}	$(u^{24} - 14u^{22} + \dots - 2u - 1)(u^{95} + u^{94} + \dots + 998u + 229)$
c_{11}	$(u^{24} + 4u^{23} + \dots + 4u + 1)(u^{95} + u^{94} + \dots - 18u + 1)$
c_{12}	$(u^{24} - 3u^{23} + \dots - 3u - 1)(u^{95} + 8u^{94} + \dots + 17711u + 2447)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1, c_7	$(y^{24} + 18y^{23} + \dots - 21y + 1)(y^{95} + 93y^{94} + \dots + 225y - 1)$	
c_2, c_6	$(y^{24} - 10y^{23} + \dots - 17y + 1)(y^{95} - 27y^{94} + \dots + 25y - 1)$	
c_3	$(y^{24} + 8y^{23} + \dots - 3y + 1)(y^{95} + 31y^{94} + \dots - 1.23074 \times 10^7 y - 71$	4025)
c_4, c_5, c_{10}	$(y^{24} - 28y^{23} + \dots - 12y + 1)$ $\cdot (y^{95} - 109y^{94} + \dots + 3539736y - 52441)$	
c_{8}, c_{11}	$(y^{24} - 24y^{23} + \dots - 16y + 1)(y^{95} - 93y^{94} + \dots + 92y - 1)$	
c_9	$(y^{24} + 8y^{23} + \dots + 14y + 1)$ $\cdot (y^{95} + 35y^{94} + \dots + 42933762y - 1996569)$	
c_{12}	$(y^{24} - 11y^{23} + \dots - 3y + 1)$ $\cdot (y^{95} - 36y^{94} + \dots + 298346619y - 5987809)$	