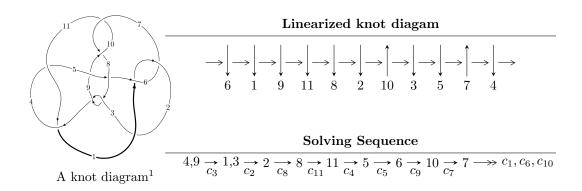
$11a_{213} (K11a_{213})$



Ideals for irreducible components 2 of X_{par}

$$I_1^u = \langle -4.59610 \times 10^{222}u^{91} - 6.94766 \times 10^{222}u^{90} + \dots + 2.72339 \times 10^{221}b - 1.01661 \times 10^{223},$$

$$2.92189 \times 10^{222}u^{91} + 4.36878 \times 10^{222}u^{90} + \dots + 2.72339 \times 10^{221}a + 5.95579 \times 10^{222}, \ u^{92} + u^{91} + \dots + u - I_2^u = \langle 21u^{19} - 10u^{18} + \dots + b + 23, \ 5u^{19} - 6u^{18} + \dots + a + 8, \ u^{20} - 6u^{18} + \dots + u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 112 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.
$$I_1^u = \langle -4.60 \times 10^{222} u^{91} - 6.95 \times 10^{222} u^{90} + \dots + 2.72 \times 10^{221} b - 1.02 \times 10^{223}, \ 2.92 \times 10^{222} u^{91} + 4.37 \times 10^{222} u^{90} + \dots + 2.72 \times 10^{221} a + 5.96 \times 10^{222}, \ u^{92} + u^{91} + \dots + u - 1 \rangle$$

(i) Arc colorings

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

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -10.7288u^{91} - 16.0417u^{90} + \cdots - 20.4887u - 21.8690 \\ 16.8764u^{91} + 25.5110u^{90} + \cdots + 40.6206u + 37.3287 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 11.2348u^{91} + 18.9978u^{90} + \cdots + 36.0229u + 34.6600 \\ -2.18240u^{91} - 2.39881u^{90} + \cdots + 15.0995u - 5.11898 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 6.14754u^{91} + 9.46936u^{90} + \cdots + 20.1319u + 15.4597 \\ 16.8764u^{91} + 25.5110u^{90} + \cdots + 40.6206u + 37.3287 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -11.4198u^{91} - 18.6265u^{90} + \cdots - 26.8279u - 28.8392 \\ 4.48198u^{91} + 6.96790u^{90} + \cdots + 21.3086u + 14.8116 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -13.4484u^{91} - 22.4378u^{90} + \cdots + 15.6276u + 8.70253 \\ 2.53485u^{91} + 3.73696u^{90} + \cdots + 15.6276u + 8.70253 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 5.28893u^{91} + 7.49597u^{90} + \cdots + 10.8597u + 8.11508 \\ -17.1968u^{91} - 24.5024u^{90} + \cdots - 44.4107u - 35.8919 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -4.97114u^{91} - 5.69526u^{90} + \cdots - 16.4325u - 7.23098 \\ -14.9240u^{91} - 21.0249u^{90} + \cdots - 36.6876u - 27.4447 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -4.97114u^{91} - 5.69526u^{90} + \cdots - 16.4325u - 7.23098 \\ -14.9240u^{91} - 21.0249u^{90} + \cdots - 36.6876u - 27.4447 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $19.2599u^{91} + 27.9333u^{90} + \cdots + 2.33262u + 18.9254$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_6	$u^{92} - u^{91} + \dots + 54u - 143$
c_2	$u^{92} + 41u^{91} + \dots + 295208u + 20449$
c_3, c_8	$u^{92} - u^{91} + \dots - u - 1$
c_4, c_{11}	$u^{92} - 3u^{91} + \dots + 442u - 347$
c_5	$u^{92} - 3u^{91} + \dots + 678u + 68$
c_7, c_{10}	$u^{92} + 3u^{91} + \dots + 734u + 79$
<i>c</i> ₉	$u^{92} + u^{91} + \dots - 3505u - 387$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_6	$y^{92} - 41y^{91} + \dots - 295208y + 20449$
c_2	$y^{92} + 31y^{91} + \dots - 131051768y + 418161601$
c_3, c_8	$y^{92} - 51y^{91} + \dots - 27y + 1$
c_4, c_{11}	$y^{92} + 59y^{91} + \dots + 3735452y + 120409$
	$y^{92} - 17y^{91} + \dots + 950500y + 4624$
c_7, c_{10}	$y^{92} + 49y^{91} + \dots - 26204y + 6241$
<i>c</i> ₉	$y^{92} - 11y^{91} + \dots - 5497819y + 149769$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.899956 + 0.428154I		
a = 1.85557 + 0.47759I	1.37334 + 1.58152I	0
b = 0.010890 - 0.885762I		
u = 0.899956 - 0.428154I		
a = 1.85557 - 0.47759I	1.37334 - 1.58152I	0
b = 0.010890 + 0.885762I		
u = 1.002300 + 0.321909I		
a = 1.082330 - 0.018089I	-0.877139 - 0.912194I	0
b = -0.832463 + 0.052849I		
u = 1.002300 - 0.321909I		
a = 1.082330 + 0.018089I	-0.877139 + 0.912194I	0
b = -0.832463 - 0.052849I		
u = -0.802043 + 0.489858I		
a = 1.48741 + 0.08320I	2.86848 + 1.82626I	0
b = -0.146106 + 1.163070I		
u = -0.802043 - 0.489858I		
a = 1.48741 - 0.08320I	2.86848 - 1.82626I	0
b = -0.146106 - 1.163070I		
u = 0.363192 + 1.037260I		
a = 0.197151 - 0.200110I	2.46469 + 5.43660I	0
b = 0.385879 - 1.192380I		
u = 0.363192 - 1.037260I		
a = 0.197151 + 0.200110I	2.46469 - 5.43660I	0
b = 0.385879 + 1.192380I		
u = 0.385836 + 0.811407I		
a = 1.25709 - 0.69261I	-2.86301 - 4.52369I	0
b = -0.693377 - 0.983781I		
u = 0.385836 - 0.811407I		
a = 1.25709 + 0.69261I	-2.86301 + 4.52369I	0
b = -0.693377 + 0.983781I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.093280 + 0.155448I		
a = 0.658445 + 0.311986I	-3.87053 - 2.88480I	0
b = -0.797009 - 0.561932I		
u = -1.093280 - 0.155448I		
a = 0.658445 - 0.311986I	-3.87053 + 2.88480I	0
b = -0.797009 + 0.561932I		
u = 1.021630 + 0.504770I		
a = 1.63740 + 0.50649I	0.75507 - 2.54974I	0
b = -0.86024 - 1.12424I		
u = 1.021630 - 0.504770I		
a = 1.63740 - 0.50649I	0.75507 + 2.54974I	0
b = -0.86024 + 1.12424I		
u = -1.098720 + 0.346642I		
a = 1.299450 + 0.359979I	-4.08734 + 4.93913I	0
b = -1.258100 - 0.118180I		
u = -1.098720 - 0.346642I		
a = 1.299450 - 0.359979I	-4.08734 - 4.93913I	0
b = -1.258100 + 0.118180I		
u = 1.020120 + 0.571742I		
a = 0.984851 - 0.334088I	-2.64428 - 2.01886I	0
b = -0.522961 - 0.901176I		
u = 1.020120 - 0.571742I		
a = 0.984851 + 0.334088I	-2.64428 + 2.01886I	0
b = -0.522961 + 0.901176I		
u = -1.026570 + 0.575028I		
a = 1.36065 - 0.84820I	0.762842 + 0.362539I	0
b = -0.50001 + 1.55156I		
u = -1.026570 - 0.575028I		
a = 1.36065 + 0.84820I	0.762842 - 0.362539I	0
b = -0.50001 - 1.55156I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.123500 + 0.377477I		
a = -1.82978 + 0.65129I	0.05662 + 7.54903I	0
b = 0.97324 - 1.09916I		
u = -1.123500 - 0.377477I		
a = -1.82978 - 0.65129I	0.05662 - 7.54903I	0
b = 0.97324 + 1.09916I		
u = 1.138520 + 0.338863I		
a = -1.63737 - 0.79965I	0.30466 - 3.87854I	0
b = 0.63181 + 1.36847I		
u = 1.138520 - 0.338863I		
a = -1.63737 + 0.79965I	0.30466 + 3.87854I	0
b = 0.63181 - 1.36847I		
u = -0.325891 + 0.743657I		
a = 0.405007 - 0.074605I	-4.17931 - 0.87104I	-12.11508 + 0.I
b = -0.791843 - 0.487373I		
u = -0.325891 - 0.743657I		
a = 0.405007 + 0.074605I	-4.17931 + 0.87104I	-12.11508 + 0.I
b = -0.791843 + 0.487373I		
u = -0.781885 + 0.059041I		_
a = -2.52231 - 0.77094I	-2.08061 - 3.09402I	-11.78916 + 0.I
b = 1.007020 + 0.764873I		
u = -0.781885 - 0.059041I		
a = -2.52231 + 0.77094I	-2.08061 + 3.09402I	-11.78916 + 0.I
b = 1.007020 - 0.764873I		
u = -0.687266 + 0.373381I		_
a = 1.121870 + 0.778326I	3.27963 + 2.01059I	0 2.17901I
b = -0.127220 + 1.324110I		
u = -0.687266 - 0.373381I		
a = 1.121870 - 0.778326I	3.27963 - 2.01059I	0. + 2.17901I
b = -0.127220 - 1.324110I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.058014 + 1.220800I		
a = 0.276521 + 0.904981I	1.95041 - 1.39231I	0
b = -0.174273 + 0.678980I		
u = 0.058014 - 1.220800I		
a = 0.276521 - 0.904981I	1.95041 + 1.39231I	0
b = -0.174273 - 0.678980I		
u = 1.174000 + 0.359773I		
a = -1.90983 - 0.96169I	-1.14890 - 7.16658I	0
b = 0.226488 + 1.189200I		
u = 1.174000 - 0.359773I		
a = -1.90983 + 0.96169I	-1.14890 + 7.16658I	0
b = 0.226488 - 1.189200I		
u = -1.173860 + 0.371541I		
a = -1.76941 - 0.43236I	-7.03906 + 7.80694I	0
b = 0.536128 - 1.159260I		
u = -1.173860 - 0.371541I		
a = -1.76941 + 0.43236I	-7.03906 - 7.80694I	0
b = 0.536128 + 1.159260I		
u = -1.177990 + 0.372709I		
a = -1.37923 + 1.02172I	-0.68335 + 4.74170I	0
b = 0.130525 - 0.776176I		
u = -1.177990 - 0.372709I		
a = -1.37923 - 1.02172I	-0.68335 - 4.74170I	0
b = 0.130525 + 0.776176I		
u = 1.154860 + 0.486853I		
a = -1.47799 + 0.52228I	-6.02464 - 10.31350I	0
b = 1.38485 - 0.30163I		
u = 1.154860 - 0.486853I		
a = -1.47799 - 0.52228I	-6.02464 + 10.31350I	0
b = 1.38485 + 0.30163I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.243416 + 1.236130I		
a = 0.162332 - 0.004245I	0.85125 - 10.84920I	0
b = -0.489603 - 1.275900I		
u = -0.243416 - 1.236130I		
a = 0.162332 + 0.004245I	0.85125 + 10.84920I	0
b = -0.489603 + 1.275900I		
u = -1.175930 + 0.472649I		
a = -0.633389 - 0.779199I	-6.23055 - 2.15767I	0
b = 0.347606 - 0.779093I		
u = -1.175930 - 0.472649I		
a = -0.633389 + 0.779199I	-6.23055 + 2.15767I	0
b = 0.347606 + 0.779093I		
u = 1.214930 + 0.377226I		
a = -1.142750 + 0.184285I	-2.70208 - 3.30839I	0
b = 0.341035 + 1.090410I		
u = 1.214930 - 0.377226I		
a = -1.142750 - 0.184285I	-2.70208 + 3.30839I	0
b = 0.341035 - 1.090410I		
u = -1.200470 + 0.459585I		
a = -1.089820 - 0.160696I	-2.24388 + 5.89877I	0
b = 0.851364 + 0.233369I		
u = -1.200470 - 0.459585I		
a = -1.089820 + 0.160696I	-2.24388 - 5.89877I	0
b = 0.851364 - 0.233369I		
u = -0.593320 + 1.152030I		
a = 0.247734 + 0.048374I	4.85118 + 0.81446I	0
b = 0.187453 + 1.138280I		
u = -0.593320 - 1.152030I		
a = 0.247734 - 0.048374I	4.85118 - 0.81446I	0
b = 0.187453 - 1.138280I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.695203 + 0.103878I		
a = -2.39103 + 0.60425I	0.57404 - 1.64965I	-7.09706 + 2.07909I
b = 0.465075 - 0.827446I		
u = 0.695203 - 0.103878I		
a = -2.39103 - 0.60425I	0.57404 + 1.64965I	-7.09706 - 2.07909I
b = 0.465075 + 0.827446I		
u = 0.656303 + 0.240252I		
a = -0.10956 - 1.42423I	2.33729 - 4.89796I	-3.19840 + 10.75719I
b = -0.182748 - 1.312790I		
u = 0.656303 - 0.240252I		
a = -0.10956 + 1.42423I	2.33729 + 4.89796I	-3.19840 - 10.75719I
b = -0.182748 + 1.312790I		
u = -1.30994		
a = -1.00243	-5.83140	0
b = 0.647346		
u = -1.098340 + 0.736969I		
a = -1.34001 - 0.54457I	-5.90913 + 6.23883I	0
b = 0.653792 - 0.759457I		
u = -1.098340 - 0.736969I		
a = -1.34001 + 0.54457I	-5.90913 - 6.23883I	0
b = 0.653792 + 0.759457I		
u = -0.635484 + 0.127279I		
a = -3.48529 - 0.08941I	-3.86440 + 5.70624I	-8.10788 - 2.00819I
b = -0.057611 + 0.532891I		
u = -0.635484 - 0.127279I		
a = -3.48529 + 0.08941I	-3.86440 - 5.70624I	-8.10788 + 2.00819I
b = -0.057611 - 0.532891I		
u = 1.332470 + 0.247847I		
a = -1.007340 + 0.847514I	-9.35815 - 2.58044I	0
b = 0.891796 - 0.453277I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.332470 - 0.247847I		
a = -1.007340 - 0.847514I	-9.35815 + 2.58044I	0
b = 0.891796 + 0.453277I		
u = 1.239090 + 0.559867I		
a = -0.567349 + 0.606895I	-5.59330 - 0.95533I	0
b = 0.719530 - 0.877837I		
u = 1.239090 - 0.559867I		
a = -0.567349 - 0.606895I	-5.59330 + 0.95533I	0
b = 0.719530 + 0.877837I		
u = 1.209370 + 0.632518I		
a = 1.41567 + 0.02861I	-0.21837 - 11.40940I	0
b = -0.62241 - 1.34712I		
u = 1.209370 - 0.632518I		
a = 1.41567 - 0.02861I	-0.21837 + 11.40940I	0
b = -0.62241 + 1.34712I		
u = -1.178080 + 0.698481I		
a = 1.180720 - 0.033401I	2.77259 + 5.73769I	0
b = -0.482051 + 1.253940I		
u = -1.178080 - 0.698481I		
a = 1.180720 + 0.033401I	2.77259 - 5.73769I	0
b = -0.482051 - 1.253940I		
u = -0.359604 + 0.513145I		
a = 1.105950 - 0.461605I	2.51053 + 4.14874I	-5.33756 - 6.38441I
b = -0.10619 + 1.59127I		
u = -0.359604 - 0.513145I		
a = 1.105950 + 0.461605I	2.51053 - 4.14874I	-5.33756 + 6.38441I
b = -0.10619 - 1.59127I		
u = 0.188195 + 0.589028I		
a = 1.17085 - 1.73055I	-3.25055 + 5.97769I	-10.01627 - 5.34702I
b = -0.909144 + 0.168813I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.188195 - 0.589028I		
a = 1.17085 + 1.73055I	-3.25055 - 5.97769I	-10.01627 + 5.34702I
b = -0.909144 - 0.168813I		
u = 0.181391 + 0.540978I		
a = 0.789144 - 0.658848I	-0.74698 - 2.02785I	-4.64089 + 2.72591I
b = 0.433458 - 0.123479I		
u = 0.181391 - 0.540978I		
a = 0.789144 + 0.658848I	-0.74698 + 2.02785I	-4.64089 - 2.72591I
b = 0.433458 + 0.123479I		
u = 0.45586 + 1.35944I		
a = 0.146707 + 0.068204I	3.67608 + 3.90107I	0
b = -0.341442 + 1.074570I		
u = 0.45586 - 1.35944I		
a = 0.146707 - 0.068204I	3.67608 - 3.90107I	0
b = -0.341442 - 1.074570I		
u = -1.32343 + 0.67031I		
a = -1.53002 + 0.19530I	-2.5744 + 17.5099I	0
b = 0.71065 - 1.35618I		
u = -1.32343 - 0.67031I		
a = -1.53002 - 0.19530I	-2.5744 - 17.5099I	0
b = 0.71065 + 1.35618I		
u = -0.034570 + 0.494786I		
a = 1.20093 + 1.44391I	1.16594 - 1.89895I	-3.75763 + 6.23152I
b = -0.111055 - 0.302643I		
u = -0.034570 - 0.494786I		
a = 1.20093 - 1.44391I	1.16594 + 1.89895I	-3.75763 - 6.23152I
b = -0.111055 + 0.302643I		
u = 1.32427 + 0.73631I		
a = -1.300570 - 0.067697I	0.67671 - 11.20380I	0
b = 0.573497 + 1.208660I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.32427 - 0.73631I		
a = -1.300570 + 0.067697I	0.67671 + 11.20380I	0
b = 0.573497 - 1.208660I		
u = 0.461263 + 0.018499I		
a = -0.73651 - 1.21882I	2.80824 + 1.36127I	-5.48968 + 3.29803I
b = -0.02599 + 1.55300I		
u = 0.461263 - 0.018499I		
a = -0.73651 + 1.21882I	2.80824 - 1.36127I	-5.48968 - 3.29803I
b = -0.02599 - 1.55300I		
u = 0.167352 + 0.427245I		
a = 0.761067 + 1.015440I	2.72282 - 1.44940I	-5.16116 - 0.05224I
b = 0.133945 - 1.282940I		
u = 0.167352 - 0.427245I		
a = 0.761067 - 1.015440I	2.72282 + 1.44940I	-5.16116 + 0.05224I
b = 0.133945 + 1.282940I		
u = 0.379215		
a = 0.649224	-0.736675	-13.9250
b = -0.409798		
u = -1.62911 + 0.00058I		
a = -0.179116 - 0.487894I	-5.05252 + 1.36520I	0
b = -0.011057 + 0.713112I		
u = -1.62911 - 0.00058I		
a = -0.179116 + 0.487894I	-5.05252 - 1.36520I	0
b = -0.011057 - 0.713112I		
u = -0.288297 + 0.213692I		
a = 0.03708 + 1.79806I	2.55253 - 4.41767I	-1.66349 + 3.27220I
b = -0.45259 - 1.47014I		
u = -0.288297 - 0.213692I		
a = 0.03708 - 1.79806I	2.55253 + 4.41767I	-1.66349 - 3.27220I
b = -0.45259 + 1.47014I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.67230 + 0.27921I		
a = -0.126637 + 0.712774I	-5.78137 + 4.82781I	0
b = 0.280703 - 0.948609I		
u = 1.67230 - 0.27921I		
a = -0.126637 - 0.712774I	-5.78137 - 4.82781I	0
b = 0.280703 + 0.948609I		

$$I_2^u = \langle 21u^{19} - 10u^{18} + \dots + b + 23, \ 5u^{19} - 6u^{18} + \dots + a + 8, \ u^{20} - 6u^{18} + \dots + u + 1 \rangle$$

(i) Arc colorings

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

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -5u^{19} + 6u^{18} + \dots + 6u - 8 \\ -21u^{19} + 10u^{18} + \dots + 19u - 23 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 20u^{19} - 6u^{18} + \dots - 18u + 21 \\ -7u^{19} + 5u^{18} + \dots + 7u - 6 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -26u^{19} + 16u^{18} + \dots + 25u - 31 \\ -21u^{19} + 10u^{18} + \dots + 19u - 23 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ 12u^{19} - 10u^{18} + \dots - 5u^{2} + u \\ 12u^{19} - 10u^{18} + \dots - 10u + 15 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -5u^{19} + 5u^{18} + \dots + 3u - 10 \\ 9u^{19} - 7u^{18} + \dots - 7u + 11 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -4u^{19} + 21u^{17} + \dots + 5u^{2} + 4u \\ -21u^{19} + 10u^{18} + \dots + 15u - 22 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 27u^{19} - 21u^{18} + \dots - 20u + 42 \\ 27u^{19} - 16u^{18} + \dots - 24u + 34 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 27u^{19} - 21u^{18} + \dots - 24u + 34 \\ 27u^{19} - 16u^{18} + \dots - 24u + 34 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= 19u^{19} - 16u^{18} - 101u^{17} + 108u^{16} + 144u^{15} - 213u^{14} + 83u^{13} - 4u^{12} - 327u^{11} + 448u^{10} + 123u^9 - 374u^8 + 168u^7 - 120u^6 - 81u^5 + 241u^4 + 25u^3 - 123u^2 - 4u + 16u^2 + 120u^4 + 16u^2 + 120u^2 + 120u^2 + 16u^2 + 120u^2 + 1$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20} - 5u^{18} + \dots - 2u + 1$
c_2	$u^{20} + 10u^{19} + \dots + 12u + 1$
<i>c</i> ₃	$u^{20} - 6u^{18} + \dots + u + 1$
C ₄	$u^{20} + 2u^{19} + \dots + 8u^2 + 1$
<i>C</i> ₅	$u^{20} - 4u^{19} + \dots - 4u + 1$
<i>C</i> ₆	$u^{20} - 5u^{18} + \dots + 2u + 1$
	$u^{20} + 4u^{19} + \dots + 4u + 1$
c ₈	$u^{20} - 6u^{18} + \dots - u + 1$
<i>C</i> 9	$u^{20} + 4u^{17} + \dots + u + 1$
c_{10}	$u^{20} - 4u^{19} + \dots - 4u + 1$
c_{11}	$u^{20} - 2u^{19} + \dots + 8u^2 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_6	$y^{20} - 10y^{19} + \dots - 12y + 1$
c_2	$y^{20} + 10y^{19} + \dots + 4y + 1$
c_3, c_8	$y^{20} - 12y^{19} + \dots - 11y + 1$
c_4,c_{11}	$y^{20} + 18y^{19} + \dots + 16y + 1$
	$y^{20} - 2y^{19} + \dots + 8y + 1$
c_7, c_{10}	$y^{20} + 8y^{19} + \dots + 12y + 1$
<i>c</i> ₉	$y^{20} - 8y^{17} + \dots + 17y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.020502 + 1.009610I		
a = 0.239739 - 0.075557I	4.05337 - 2.46535I	-3.03812 + 2.80384I
b = -0.111980 - 1.179690I		
u = 0.020502 - 1.009610I		
a = 0.239739 + 0.075557I	4.05337 + 2.46535I	-3.03812 - 2.80384I
b = -0.111980 + 1.179690I		
u = -0.034514 + 1.030530I		
a = 0.417470 - 1.272790I	2.26277 + 1.45555I	6.55534 - 4.54077I
b = -0.117330 - 0.725388I		
u = -0.034514 - 1.030530I		
a = 0.417470 + 1.272790I	2.26277 - 1.45555I	6.55534 + 4.54077I
b = -0.117330 + 0.725388I		
u = 0.834862 + 0.376425I		
a = -2.85203 + 0.33582I	-4.11080 - 6.47940I	-11.0697 + 10.5057I
b = 0.473306 + 0.639860I		
u = 0.834862 - 0.376425I		
a = -2.85203 - 0.33582I	-4.11080 + 6.47940I	-11.0697 - 10.5057I
b = 0.473306 - 0.639860I		
u = 0.989760 + 0.468800I		
a = 1.42255 + 0.75415I	1.31973 - 1.14762I	-5.60070 + 2.26738I
b = -0.46915 - 1.35496I		
u = 0.989760 - 0.468800I		
a = 1.42255 - 0.75415I	1.31973 + 1.14762I	-5.60070 - 2.26738I
b = -0.46915 + 1.35496I		
u = 0.739186 + 0.254368I		
a = 0.812536 + 0.136562I	2.49233 - 2.11946I	-10.71875 + 4.52605I
b = -0.11506 - 1.54761I		
u = 0.739186 - 0.254368I		
a = 0.812536 - 0.136562I	2.49233 + 2.11946I	-10.71875 - 4.52605I
b = -0.11506 + 1.54761I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.197310 + 0.297467I		
a = -1.51506 + 1.09231I	-0.69775 + 5.95580I	-9.18910 - 5.63264I
b = 0.456437 - 1.060240I		
u = -1.197310 - 0.297467I		
a = -1.51506 - 1.09231I	-0.69775 - 5.95580I	-9.18910 + 5.63264I
b = 0.456437 + 1.060240I		
u = -0.596304 + 0.330171I		
a = 2.53707 - 0.01833I	-1.49168 + 3.77521I	-5.50553 - 6.05932I
b = -0.918717 + 0.754673I		
u = -0.596304 - 0.330171I		
a = 2.53707 + 0.01833I	-1.49168 - 3.77521I	-5.50553 + 6.05932I
b = -0.918717 - 0.754673I		
u = -0.677664 + 0.019148I		
a = 0.768972 - 0.409121I	1.86097 - 4.40401I	-13.93839 + 1.85189I
b = -0.36367 - 1.45018I		
u = -0.677664 - 0.019148I		
a = 0.768972 + 0.409121I	1.86097 + 4.40401I	-13.93839 - 1.85189I
b = -0.36367 + 1.45018I		
u = 1.42090 + 0.17879I		
a = -0.406122 + 0.146508I	-6.67062 + 3.74046I	-13.8287 - 3.4251I
b = -0.189379 + 0.489956I		
u = 1.42090 - 0.17879I		
a = -0.406122 - 0.146508I	-6.67062 - 3.74046I	-13.8287 + 3.4251I
b = -0.189379 - 0.489956I		
u = -1.49942 + 0.05369I		
a = -0.425122 - 0.103178I	-5.59805 - 1.77453I	-16.1663 + 4.7993I
b = 0.355541 + 0.485353I		
u = -1.49942 - 0.05369I		
a = -0.425122 + 0.103178I	-5.59805 + 1.77453I	-16.1663 - 4.7993I
b = 0.355541 - 0.485353I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{20} - 5u^{18} + \dots - 2u + 1)(u^{92} - u^{91} + \dots + 54u - 143) \right $
c_2	$(u^{20} + 10u^{19} + \dots + 12u + 1)(u^{92} + 41u^{91} + \dots + 295208u + 20449)$
c_3	$ (u^{20} - 6u^{18} + \dots + u + 1)(u^{92} - u^{91} + \dots - u - 1) $
c_4	$(u^{20} + 2u^{19} + \dots + 8u^2 + 1)(u^{92} - 3u^{91} + \dots + 442u - 347)$
<i>C</i> ₅	$(u^{20} - 4u^{19} + \dots - 4u + 1)(u^{92} - 3u^{91} + \dots + 678u + 68)$
c_6	$ (u^{20} - 5u^{18} + \dots + 2u + 1)(u^{92} - u^{91} + \dots + 54u - 143) $
c_7	$ (u^{20} + 4u^{19} + \dots + 4u + 1)(u^{92} + 3u^{91} + \dots + 734u + 79) $
c_8	$ (u^{20} - 6u^{18} + \dots - u + 1)(u^{92} - u^{91} + \dots - u - 1) $
c_9	$(u^{20} + 4u^{17} + \dots + u + 1)(u^{92} + u^{91} + \dots - 3505u - 387)$
c_{10}	$(u^{20} - 4u^{19} + \dots - 4u + 1)(u^{92} + 3u^{91} + \dots + 734u + 79)$
c_{11}	$(u^{20} - 2u^{19} + \dots + 8u^2 + 1)(u^{92} - 3u^{91} + \dots + 442u - 347)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_6	$(y^{20} - 10y^{19} + \dots - 12y + 1)(y^{92} - 41y^{91} + \dots - 295208y + 20449)$
c_2	$(y^{20} + 10y^{19} + \dots + 4y + 1)$ $\cdot (y^{92} + 31y^{91} + \dots - 131051768y + 418161601)$
c_3, c_8	$(y^{20} - 12y^{19} + \dots - 11y + 1)(y^{92} - 51y^{91} + \dots - 27y + 1)$
c_4, c_{11}	$(y^{20} + 18y^{19} + \dots + 16y + 1)$ $\cdot (y^{92} + 59y^{91} + \dots + 3735452y + 120409)$
c_5	$(y^{20} - 2y^{19} + \dots + 8y + 1)(y^{92} - 17y^{91} + \dots + 950500y + 4624)$
c_7, c_{10}	$(y^{20} + 8y^{19} + \dots + 12y + 1)(y^{92} + 49y^{91} + \dots - 26204y + 6241)$
<i>C</i> 9	$(y^{20} - 8y^{17} + \dots + 17y + 1)(y^{92} - 11y^{91} + \dots - 5497819y + 149769)$