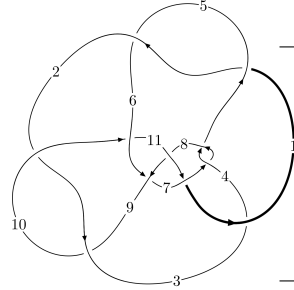
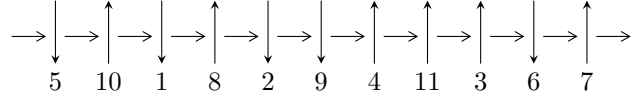


11a₃₀₀ (K11a₃₀₀)



A knot diagram¹

Linearized knot diagram



Solving Sequence

$$2, 10 \xrightarrow{c_2} 3, 6 \xrightarrow{c_{10}} 11 \xrightarrow{c_5} 5 \xrightarrow{c_1} 1 \xrightarrow{c_9} 9 \xrightarrow{c_6} 7 \xrightarrow{c_8} 8 \xrightarrow{c_4} 4 \twoheadrightarrow c_3, c_7, c_{11}$$

Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 1.10239 \times 10^{271} u^{95} - 1.29227 \times 10^{272} u^{94} + \dots + 1.23928 \times 10^{271} b + 2.12022 \times 10^{274}, \\ 1.69259 \times 10^{274} u^{95} - 4.36720 \times 10^{274} u^{94} + \dots + 2.39182 \times 10^{273} a + 6.71018 \times 10^{276}, \\ u^{96} + 32u^{94} + \dots - 1260u - 193 \rangle$$

$$I_2^u = \langle -312425u^{19} - 462214u^{18} + \dots + 208363b - 52657, \\ 2692148u^{19} + 2660136u^{18} + \dots + 1041815a + 3674309, u^{20} + u^{19} + \dots + 2u - 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 116 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>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

$$\mathbf{I. } I_1^u = \langle 1.10 \times 10^{271}u^{95} - 1.29 \times 10^{272}u^{94} + \dots + 1.24 \times 10^{271}b + 2.12 \times 10^{274}, 1.69 \times 10^{274}u^{95} - 4.37 \times 10^{274}u^{94} + \dots + 2.39 \times 10^{273}a + 6.71 \times 10^{276}, u^{96} + 32u^{94} + \dots - 1260u - 193 \rangle$$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -7.07659u^{95} + 18.2589u^{94} + \dots - 16539.3u - 2805.47 \\ -0.889541u^{95} + 10.4276u^{94} + \dots - 10657.3u - 1710.84 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -7.96908u^{95} + 10.7719u^{94} + \dots - 8088.81u - 1484.13 \\ 0.381477u^{95} + 4.65214u^{94} + \dots - 5016.46u - 782.330 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -7.96613u^{95} + 28.6864u^{94} + \dots - 27196.6u - 4516.31 \\ -0.889541u^{95} + 10.4276u^{94} + \dots - 10657.3u - 1710.84 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -4.42194u^{95} + 1.59863u^{94} + \dots - 63.9621u - 122.087 \\ -0.368419u^{95} + 1.21715u^{94} + \dots - 1301.07u - 213.070 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -10.1408u^{95} + 26.9593u^{94} + \dots - 24457.0u - 4141.68 \\ 0.821675u^{95} + 12.0458u^{94} + \dots - 13110.7u - 2053.80 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 24.0257u^{95} - 8.64454u^{94} + \dots - 603.693u + 534.594 \\ 6.39239u^{95} - 8.97364u^{94} + \dots + 6887.06u + 1253.19 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -23.1189u^{95} + 9.51320u^{94} + \dots - 721.295u - 719.317 \\ -6.76103u^{95} + 8.21702u^{94} + \dots - 5918.27u - 1108.98 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -23.1189u^{95} + 9.51320u^{94} + \dots - 721.295u - 719.317 \\ -6.76103u^{95} + 8.21702u^{94} + \dots - 5918.27u - 1108.98 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = $7.10864u^{95} + 21.6510u^{94} + \dots - 27025.5u - 4094.60$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{96} - u^{95} + \dots + 44434u + 5239$
c_2, c_9	$u^{96} + 32u^{94} + \dots - 1260u - 193$
c_3	$u^{96} - 9u^{95} + \dots + 371u - 46$
c_4, c_7	$u^{96} + u^{95} + \dots + 60u - 101$
c_6	$u^{96} - 4u^{95} + \dots - 45u + 1$
c_8	$u^{96} + 10u^{95} + \dots + 3240u + 368$
c_{10}	$u^{96} + 2u^{95} + \dots - 159407u - 226723$
c_{11}	$u^{96} - 6u^{95} + \dots - 14458u + 1789$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{96} - 73y^{95} + \dots + 553636226y + 27447121$
c_2, c_9	$y^{96} + 64y^{95} + \dots + 1764038y + 37249$
c_3	$y^{96} - y^{95} + \dots + 405435y + 2116$
c_4, c_7	$y^{96} - 53y^{95} + \dots - 127426y + 10201$
c_6	$y^{96} - 4y^{95} + \dots - 559y + 1$
c_8	$y^{96} - 10y^{95} + \dots + 3636544y + 135424$
c_{10}	$y^{96} - 36y^{95} + \dots - 374201254849y + 51403318729$
c_{11}	$y^{96} - 16y^{95} + \dots - 110849866y + 3200521$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.477710 + 0.871860I$ $a = -1.58702 + 0.33319I$ $b = 0.579139 + 0.546384I$	$1.89831 + 4.86756I$	0
$u = 0.477710 - 0.871860I$ $a = -1.58702 - 0.33319I$ $b = 0.579139 - 0.546384I$	$1.89831 - 4.86756I$	0
$u = 0.349612 + 0.927401I$ $a = 0.028575 + 0.982383I$ $b = 0.443823 - 0.618828I$	$-0.40537 + 1.96180I$	0
$u = 0.349612 - 0.927401I$ $a = 0.028575 - 0.982383I$ $b = 0.443823 + 0.618828I$	$-0.40537 - 1.96180I$	0
$u = -0.150164 + 1.021670I$ $a = 1.31047 + 0.62522I$ $b = 0.801587 - 0.111152I$	$0.829229 + 0.160481I$	0
$u = -0.150164 - 1.021670I$ $a = 1.31047 - 0.62522I$ $b = 0.801587 + 0.111152I$	$0.829229 - 0.160481I$	0
$u = -0.006380 + 0.958245I$ $a = -0.372426 + 0.041323I$ $b = -2.84025 + 2.76183I$	$-1.83794 + 0.18273I$	0
$u = -0.006380 - 0.958245I$ $a = -0.372426 - 0.041323I$ $b = -2.84025 - 2.76183I$	$-1.83794 - 0.18273I$	0
$u = 1.006110 + 0.273433I$ $a = 0.044883 - 0.674284I$ $b = -0.402873 + 0.524513I$	$5.03978 + 1.15243I$	0
$u = 1.006110 - 0.273433I$ $a = 0.044883 + 0.674284I$ $b = -0.402873 - 0.524513I$	$5.03978 - 1.15243I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.762249 + 0.575493I$ $a = 1.147770 - 0.749601I$ $b = -1.101860 + 0.348699I$	$0.74726 + 5.71599I$	0
$u = 0.762249 - 0.575493I$ $a = 1.147770 + 0.749601I$ $b = -1.101860 - 0.348699I$	$0.74726 - 5.71599I$	0
$u = -0.115793 + 1.054130I$ $a = -1.68582 + 0.13770I$ $b = -1.214340 - 0.076228I$	$-2.85619 - 3.24531I$	0
$u = -0.115793 - 1.054130I$ $a = -1.68582 - 0.13770I$ $b = -1.214340 + 0.076228I$	$-2.85619 + 3.24531I$	0
$u = -0.119486 + 1.065540I$ $a = 2.23374 + 0.04464I$ $b = 1.151510 + 0.250704I$	$-0.00337 - 7.83254I$	0
$u = -0.119486 - 1.065540I$ $a = 2.23374 - 0.04464I$ $b = 1.151510 - 0.250704I$	$-0.00337 + 7.83254I$	0
$u = -0.096656 + 1.073260I$ $a = -0.78866 + 1.19330I$ $b = -1.48118 - 0.18409I$	$-5.22833 - 2.70073I$	0
$u = -0.096656 - 1.073260I$ $a = -0.78866 - 1.19330I$ $b = -1.48118 + 0.18409I$	$-5.22833 + 2.70073I$	0
$u = 0.101676 + 1.075690I$ $a = 0.444887 + 0.616934I$ $b = 0.67291 - 1.62907I$	$-0.605747 - 0.447290I$	0
$u = 0.101676 - 1.075690I$ $a = 0.444887 - 0.616934I$ $b = 0.67291 + 1.62907I$	$-0.605747 + 0.447290I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.083330 + 1.113740I$ $a = 0.141414 - 1.204450I$ $b = 1.263970 + 0.294772I$	$-5.35019 + 1.42280I$	0
$u = -0.083330 - 1.113740I$ $a = 0.141414 + 1.204450I$ $b = 1.263970 - 0.294772I$	$-5.35019 - 1.42280I$	0
$u = -0.861117 + 0.059028I$ $a = -1.101960 - 0.399619I$ $b = 1.322520 + 0.148419I$	$-3.40821 - 0.60971I$	0
$u = -0.861117 - 0.059028I$ $a = -1.101960 + 0.399619I$ $b = 1.322520 - 0.148419I$	$-3.40821 + 0.60971I$	0
$u = 0.463157 + 0.690308I$ $a = 1.207050 + 0.428007I$ $b = -0.160459 - 0.467180I$	$0.39402 + 1.56177I$	0
$u = 0.463157 - 0.690308I$ $a = 1.207050 - 0.428007I$ $b = -0.160459 + 0.467180I$	$0.39402 - 1.56177I$	0
$u = 0.763821 + 0.888138I$ $a = -0.929808 + 0.763951I$ $b = 1.044250 - 0.014042I$	$-0.0489695 - 0.0733989I$	0
$u = 0.763821 - 0.888138I$ $a = -0.929808 - 0.763951I$ $b = 1.044250 + 0.014042I$	$-0.0489695 + 0.0733989I$	0
$u = 0.036681 + 1.172390I$ $a = -0.282225 - 0.846664I$ $b = 0.382233 + 0.654066I$	$-3.96883 + 1.64207I$	0
$u = 0.036681 - 1.172390I$ $a = -0.282225 + 0.846664I$ $b = 0.382233 - 0.654066I$	$-3.96883 - 1.64207I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.745178 + 0.342343I$		
$a = -0.642571 + 0.754957I$	$4.50509 - 2.67262I$	0
$b = -0.686324 - 0.574204I$		
$u = -0.745178 - 0.342343I$		
$a = -0.642571 - 0.754957I$	$4.50509 + 2.67262I$	0
$b = -0.686324 + 0.574204I$		
$u = -0.344626 + 1.155090I$		
$a = 0.053249 + 0.640010I$	$1.96286 - 1.30339I$	0
$b = 0.391099 - 1.075970I$		
$u = -0.344626 - 1.155090I$		
$a = 0.053249 - 0.640010I$	$1.96286 + 1.30339I$	0
$b = 0.391099 + 1.075970I$		
$u = -0.780859 + 0.010223I$		
$a = 1.36580 - 0.70315I$	$-2.44931 + 4.41382I$	0
$b = -1.178590 + 0.396139I$		
$u = -0.780859 - 0.010223I$		
$a = 1.36580 + 0.70315I$	$-2.44931 - 4.41382I$	0
$b = -1.178590 - 0.396139I$		
$u = -0.735809 + 0.256765I$		
$a = -1.18724 + 0.94156I$	$4.54881 + 7.06507I$	0
$b = -0.007951 - 0.889298I$		
$u = -0.735809 - 0.256765I$		
$a = -1.18724 - 0.94156I$	$4.54881 - 7.06507I$	0
$b = -0.007951 + 0.889298I$		
$u = -0.410401 + 1.157480I$		
$a = -0.280325 + 0.925021I$	$1.76805 - 11.34400I$	0
$b = -0.32162 - 1.39188I$		
$u = -0.410401 - 1.157480I$		
$a = -0.280325 - 0.925021I$	$1.76805 + 11.34400I$	0
$b = -0.32162 + 1.39188I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.384452 + 1.169040I$		
$a = 0.081087 - 0.951266I$	$-2.07883 - 6.40543I$	0
$b = 0.183037 + 1.035960I$		
$u = -0.384452 - 1.169040I$		
$a = 0.081087 + 0.951266I$	$-2.07883 + 6.40543I$	0
$b = 0.183037 - 1.035960I$		
$u = 1.239660 + 0.026962I$		
$a = 0.830294 + 0.423344I$	$0.39090 - 11.66790I$	0
$b = -1.317880 - 0.400449I$		
$u = 1.239660 - 0.026962I$		
$a = 0.830294 - 0.423344I$	$0.39090 + 11.66790I$	0
$b = -1.317880 + 0.400449I$		
$u = 0.207707 + 0.729044I$		
$a = 0.11883 - 1.96148I$	$2.49221 - 1.38820I$	0
$b = -0.620878 + 0.770619I$		
$u = 0.207707 - 0.729044I$		
$a = 0.11883 + 1.96148I$	$2.49221 + 1.38820I$	0
$b = -0.620878 - 0.770619I$		
$u = 0.601578 + 1.098430I$		
$a = -0.101775 - 0.387401I$	$2.50058 + 4.48584I$	0
$b = -0.104158 + 0.634763I$		
$u = 0.601578 - 1.098430I$		
$a = -0.101775 + 0.387401I$	$2.50058 - 4.48584I$	0
$b = -0.104158 - 0.634763I$		
$u = -0.663968 + 0.300230I$		
$a = -0.540867 - 1.231100I$	$-1.17974 - 2.82902I$	0
$b = 1.43619 - 0.02619I$		
$u = -0.663968 - 0.300230I$		
$a = -0.540867 + 1.231100I$	$-1.17974 + 2.82902I$	0
$b = 1.43619 + 0.02619I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.660203 + 0.299314I$	$0.67930 + 2.39127I$	0
$a = 1.189050 - 0.630687I$		
$b = 0.107003 + 0.433923I$		
$u = -0.660203 - 0.299314I$	$0.67930 - 2.39127I$	0
$a = 1.189050 + 0.630687I$		
$b = 0.107003 - 0.433923I$		
$u = -0.672213 + 1.105820I$	$-5.14389 + 0.01776I$	0
$a = -0.336516 - 0.738603I$		
$b = 1.382600 - 0.006716I$		
$u = -0.672213 - 1.105820I$	$-5.14389 - 0.01776I$	0
$a = -0.336516 + 0.738603I$		
$b = 1.382600 + 0.006716I$		
$u = 1.329830 + 0.055464I$	$-2.77482 - 5.11934I$	0
$a = -0.748294 - 0.249633I$		
$b = 1.229010 + 0.240026I$		
$u = 1.329830 - 0.055464I$	$-2.77482 + 5.11934I$	0
$a = -0.748294 + 0.249633I$		
$b = 1.229010 - 0.240026I$		
$u = 0.098167 + 1.330940I$	$-1.31348 + 5.11994I$	0
$a = 0.436888 + 0.783405I$		
$b = 0.127516 - 0.181825I$		
$u = 0.098167 - 1.330940I$	$-1.31348 - 5.11994I$	0
$a = 0.436888 - 0.783405I$		
$b = 0.127516 + 0.181825I$		
$u = -0.447115 + 1.261890I$	$-6.22408 - 8.95276I$	0
$a = 0.245321 - 1.357450I$		
$b = 1.41900 + 0.67079I$		
$u = -0.447115 - 1.261890I$	$-6.22408 + 8.95276I$	0
$a = 0.245321 + 1.357450I$		
$b = 1.41900 - 0.67079I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.362340 + 1.308560I$		
$a = 0.32191 - 1.48442I$	$-5.75032 - 4.28762I$	0
$b = 1.122860 + 0.174890I$		
$u = -0.362340 - 1.308560I$		
$a = 0.32191 + 1.48442I$	$-5.75032 + 4.28762I$	0
$b = 1.122860 - 0.174890I$		
$u = -0.130104 + 0.628668I$		
$a = 1.30314 - 1.51349I$	$1.29886 + 6.55523I$	0
$b = -0.989484 + 0.601204I$		
$u = -0.130104 - 0.628668I$		
$a = 1.30314 + 1.51349I$	$1.29886 - 6.55523I$	0
$b = -0.989484 - 0.601204I$		
$u = -0.472576 + 1.291860I$		
$a = -0.176604 + 1.278790I$	$-7.44389 - 5.44199I$	0
$b = -1.52018 - 0.38581I$		
$u = -0.472576 - 1.291860I$		
$a = -0.176604 - 1.278790I$	$-7.44389 + 5.44199I$	0
$b = -1.52018 + 0.38581I$		
$u = 0.243938 + 1.372430I$		
$a = 0.239432 + 0.742561I$	$-5.25019 + 8.77138I$	0
$b = 1.56261 - 0.62158I$		
$u = 0.243938 - 1.372430I$		
$a = 0.239432 - 0.742561I$	$-5.25019 - 8.77138I$	0
$b = 1.56261 + 0.62158I$		
$u = -0.58908 + 1.30122I$		
$a = -0.019208 + 0.946271I$	$-6.72567 - 4.75540I$	0
$b = -1.46087 - 0.15906I$		
$u = -0.58908 - 1.30122I$		
$a = -0.019208 - 0.946271I$	$-6.72567 + 4.75540I$	0
$b = -1.46087 + 0.15906I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.39153 + 1.37600I$ $a = -0.519956 + 1.309210I$ $b = -1.382550 - 0.176450I$	$-6.28639 - 6.86236I$	0
$u = -0.39153 - 1.37600I$ $a = -0.519956 - 1.309210I$ $b = -1.382550 + 0.176450I$	$-6.28639 + 6.86236I$	0
$u = -0.522378 + 0.207279I$ $a = 0.94119 + 1.52739I$ $b = -1.127540 + 0.337105I$	$-1.28698 - 0.73115I$	$4.34059 + 0.I$
$u = -0.522378 - 0.207279I$ $a = 0.94119 - 1.52739I$ $b = -1.127540 - 0.337105I$	$-1.28698 + 0.73115I$	$4.34059 + 0.I$
$u = -0.237413 + 0.497598I$ $a = -0.572508 + 1.064460I$ $b = 0.898613 - 0.409005I$	$-1.43609 + 1.70978I$	$-3.75375 + 0.93348I$
$u = -0.237413 - 0.497598I$ $a = -0.572508 - 1.064460I$ $b = 0.898613 + 0.409005I$	$-1.43609 - 1.70978I$	$-3.75375 - 0.93348I$
$u = 0.272964 + 0.408032I$ $a = 1.06742 + 1.26038I$ $b = 0.074964 - 0.469777I$	$0.406346 + 1.198920I$	$3.01437 - 6.03071I$
$u = 0.272964 - 0.408032I$ $a = 1.06742 - 1.26038I$ $b = 0.074964 + 0.469777I$	$0.406346 - 1.198920I$	$3.01437 + 6.03071I$
$u = 0.57869 + 1.39729I$ $a = 0.179334 + 1.178360I$ $b = 1.52584 - 0.54511I$	$-3.9614 + 17.9979I$	0
$u = 0.57869 - 1.39729I$ $a = 0.179334 - 1.178360I$ $b = 1.52584 + 0.54511I$	$-3.9614 - 17.9979I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.13051 + 1.52776I$ $a = -0.213567 - 0.620488I$ $b = -1.249880 + 0.498140I$	$-8.49441 + 1.95871I$	0
$u = 0.13051 - 1.52776I$ $a = -0.213567 + 0.620488I$ $b = -1.249880 - 0.498140I$	$-8.49441 - 1.95871I$	0
$u = 0.59416 + 1.41894I$ $a = -0.102988 - 1.085290I$ $b = -1.43066 + 0.45897I$	$-7.19197 + 11.75550I$	0
$u = 0.59416 - 1.41894I$ $a = -0.102988 + 1.085290I$ $b = -1.43066 - 0.45897I$	$-7.19197 - 11.75550I$	0
$u = 0.51898 + 1.47406I$ $a = 0.207200 + 0.855829I$ $b = 1.151320 - 0.483971I$	$-0.64154 + 6.80371I$	0
$u = 0.51898 - 1.47406I$ $a = 0.207200 - 0.855829I$ $b = 1.151320 + 0.483971I$	$-0.64154 - 6.80371I$	0
$u = 1.58555$ $a = 0.409866$ $b = -0.948820$	4.87233	0
$u = -0.55623 + 1.52426I$ $a = 0.407315 - 0.689064I$ $b = 1.364050 + 0.276302I$	$-2.24244 - 7.86585I$	0
$u = -0.55623 - 1.52426I$ $a = 0.407315 + 0.689064I$ $b = 1.364050 - 0.276302I$	$-2.24244 + 7.86585I$	0
$u = 0.44153 + 1.59135I$ $a = 0.069803 + 0.567365I$ $b = 1.254110 + 0.048386I$	$-4.94765 - 5.11148I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.44153 - 1.59135I$ $a = 0.069803 - 0.567365I$ $b = 1.254110 - 0.048386I$	$-4.94765 + 5.11148I$	0
$u = 0.37156 + 1.61313I$ $a = -0.122666 - 0.625527I$ $b = -1.224190 + 0.197566I$	$-8.68039 + 1.55353I$	0
$u = 0.37156 - 1.61313I$ $a = -0.122666 + 0.625527I$ $b = -1.224190 - 0.197566I$	$-8.68039 - 1.55353I$	0
$u = 0.075199 + 0.246020I$ $a = 0.41097 - 3.47500I$ $b = -0.499475 + 0.742524I$	$2.56439 - 1.51823I$	$3.61769 + 1.58173I$
$u = 0.075199 - 0.246020I$ $a = 0.41097 + 3.47500I$ $b = -0.499475 - 0.742524I$	$2.56439 + 1.51823I$	$3.61769 - 1.58173I$
$u = -1.83778$ $a = 0.265734$ $b = -1.18833$	3.59541	0

II.

$$I_2^u = \langle -3.12 \times 10^5 u^{19} - 4.62 \times 10^5 u^{18} + \dots + 2.08 \times 10^5 b - 5.27 \times 10^4, 2.69 \times 10^6 u^{19} + 2.66 \times 10^6 u^{18} + \dots + 1.04 \times 10^6 a + 3.67 \times 10^6, u^{20} + u^{19} + \dots + 2u - 1 \rangle$$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -2.58409u^{19} - 2.55337u^{18} + \dots + 6.67727u - 3.52683 \\ 1.49943u^{19} + 2.21831u^{18} + \dots - 3.14436u + 0.252718 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 2.32765u^{19} + 0.794396u^{18} + \dots - 13.9361u + 6.04702 \\ -1.19565u^{19} - 0.672767u^{18} + \dots + 7.01248u - 1.30306 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -1.08467u^{19} - 0.335056u^{18} + \dots + 3.53291u - 3.27412 \\ 1.49943u^{19} + 2.21831u^{18} + \dots - 3.14436u + 0.252718 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1.30306u^{19} - 3.49871u^{18} + \dots + 1.38230u + 4.40635 \\ -u^{18} - u^{17} + \dots + 5u^2 - u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -2.54387u^{19} - 2.17673u^{18} + \dots + 8.99069u - 4.55130 \\ 1.65294u^{19} + 2.54102u^{18} + \dots - 4.82518u + 0.940775 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.213805u^{19} + 2.29666u^{18} + \dots + 8.24658u - 8.45007 \\ 0.532088u^{19} + 0.0208569u^{18} + \dots - 6.86136u + 3.15695 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.22126u^{19} + 3.91699u^{18} + \dots + 4.94066u - 7.11246 \\ 0.912188u^{19} + 0.525510u^{18} + \dots - 6.39415u + 2.53325 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.22126u^{19} + 3.91699u^{18} + \dots + 4.94066u - 7.11246 \\ 0.912188u^{19} + 0.525510u^{18} + \dots - 6.39415u + 2.53325 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $-\frac{1012942}{208363}u^{19} - \frac{1169627}{208363}u^{18} + \dots - \frac{402660}{208363}u + \frac{907180}{208363}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20} - 2u^{19} + \dots - 2u + 1$
c_2	$u^{20} + u^{19} + \dots + 2u - 1$
c_3	$u^{20} + 2u^{19} + \dots - 6u - 1$
c_4	$u^{20} - 2u^{19} + \dots + 4u - 1$
c_5	$u^{20} + 2u^{19} + \dots + 2u + 1$
c_6	$u^{20} - 7u^{19} + \dots + 5u + 1$
c_7	$u^{20} + 2u^{19} + \dots - 4u - 1$
c_8	$u^{20} + 3u^{19} + \dots + u + 1$
c_9	$u^{20} - u^{19} + \dots - 2u - 1$
c_{10}	$u^{20} - u^{19} + \dots - 3u - 1$
c_{11}	$u^{20} - 3u^{19} + \dots + 6u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{20} - 14y^{19} + \dots + 40y^2 + 1$
c_2, c_9	$y^{20} + 11y^{19} + \dots + 8y + 1$
c_3	$y^{20} - 10y^{19} + \dots - 2y + 1$
c_4, c_7	$y^{20} - 10y^{19} + \dots - 8y + 1$
c_6	$y^{20} - 5y^{19} + \dots - 9y + 1$
c_8	$y^{20} - 19y^{19} + \dots - 15y + 1$
c_{10}	$y^{20} - y^{19} + \dots - 19y + 1$
c_{11}	$y^{20} + 3y^{19} + \dots - 24y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.403364 + 0.887964I$ $a = 0.935501 - 0.713016I$ $b = -0.072382 + 0.458417I$	$2.09458 - 0.02571I$	$6.51387 - 0.81904I$
$u = 0.403364 - 0.887964I$ $a = 0.935501 + 0.713016I$ $b = -0.072382 - 0.458417I$	$2.09458 + 0.02571I$	$6.51387 + 0.81904I$
$u = 0.013365 + 0.943643I$ $a = 0.539715 - 0.013239I$ $b = 1.89857 - 2.14435I$	$-1.90449 + 0.21781I$	$-29.5538 - 14.4681I$
$u = 0.013365 - 0.943643I$ $a = 0.539715 + 0.013239I$ $b = 1.89857 + 2.14435I$	$-1.90449 - 0.21781I$	$-29.5538 + 14.4681I$
$u = 0.518349 + 0.936741I$ $a = -0.751140 + 0.577664I$ $b = 0.235460 + 0.265262I$	$1.69553 + 3.69576I$	$1.77162 - 1.96947I$
$u = 0.518349 - 0.936741I$ $a = -0.751140 - 0.577664I$ $b = 0.235460 - 0.265262I$	$1.69553 - 3.69576I$	$1.77162 + 1.96947I$
$u = -0.691262 + 0.038386I$ $a = -1.36790 + 0.79675I$ $b = 1.211840 - 0.003779I$	$-2.35457 + 2.06275I$	$-0.52131 - 2.65726I$
$u = -0.691262 - 0.038386I$ $a = -1.36790 - 0.79675I$ $b = 1.211840 + 0.003779I$	$-2.35457 - 2.06275I$	$-0.52131 + 2.65726I$
$u = 1.35310$ $a = 0.156519$ $b = -0.722511$	5.30775	14.8430
$u = -0.410763 + 1.297760I$ $a = -0.39076 + 1.44213I$ $b = -1.384520 - 0.285041I$	$-6.31669 - 6.08976I$	$-1.60733 + 2.73564I$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.410763 - 1.297760I$ $a = -0.39076 - 1.44213I$ $b = -1.384520 + 0.285041I$	$-6.31669 + 6.08976I$	$-1.60733 - 2.73564I$
$u = 0.167583 + 0.600695I$ $a = 2.63765 + 0.00921I$ $b = -0.848117 + 0.445501I$	$1.55717 + 7.34738I$	$4.09988 - 9.89194I$
$u = 0.167583 - 0.600695I$ $a = 2.63765 - 0.00921I$ $b = -0.848117 - 0.445501I$	$1.55717 - 7.34738I$	$4.09988 + 9.89194I$
$u = -0.34366 + 1.48085I$ $a = 0.545779 - 0.694608I$ $b = 1.280250 + 0.346035I$	$-3.05795 - 7.46965I$	$-3.02238 + 6.16209I$
$u = -0.34366 - 1.48085I$ $a = 0.545779 + 0.694608I$ $b = 1.280250 - 0.346035I$	$-3.05795 + 7.46965I$	$-3.02238 - 6.16209I$
$u = 0.287244 + 0.337360I$ $a = -1.69238 - 1.44624I$ $b = 0.822446 - 0.168895I$	$-1.03432 + 2.65731I$	$-0.50510 - 5.09226I$
$u = 0.287244 - 0.337360I$ $a = -1.69238 + 1.44624I$ $b = 0.822446 + 0.168895I$	$-1.03432 - 2.65731I$	$-0.50510 + 5.09226I$
$u = -0.19147 + 1.60515I$ $a = -0.190530 + 0.582994I$ $b = -1.187050 - 0.396760I$	$-8.22954 - 1.82787I$	$11.49994 + 0.55574I$
$u = -0.19147 - 1.60515I$ $a = -0.190530 - 0.582994I$ $b = -1.187050 + 0.396760I$	$-8.22954 + 1.82787I$	$11.49994 - 0.55574I$
$u = -1.85860$ $a = 0.311618$ $b = -1.19048$	3.47385	-31.1940

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{20} - 2u^{19} + \dots - 2u + 1)(u^{96} - u^{95} + \dots + 44434u + 5239)$
c_2	$(u^{20} + u^{19} + \dots + 2u - 1)(u^{96} + 32u^{94} + \dots - 1260u - 193)$
c_3	$(u^{20} + 2u^{19} + \dots - 6u - 1)(u^{96} - 9u^{95} + \dots + 371u - 46)$
c_4	$(u^{20} - 2u^{19} + \dots + 4u - 1)(u^{96} + u^{95} + \dots + 60u - 101)$
c_5	$(u^{20} + 2u^{19} + \dots + 2u + 1)(u^{96} - u^{95} + \dots + 44434u + 5239)$
c_6	$(u^{20} - 7u^{19} + \dots + 5u + 1)(u^{96} - 4u^{95} + \dots - 45u + 1)$
c_7	$(u^{20} + 2u^{19} + \dots - 4u - 1)(u^{96} + u^{95} + \dots + 60u - 101)$
c_8	$(u^{20} + 3u^{19} + \dots + u + 1)(u^{96} + 10u^{95} + \dots + 3240u + 368)$
c_9	$(u^{20} - u^{19} + \dots - 2u - 1)(u^{96} + 32u^{94} + \dots - 1260u - 193)$
c_{10}	$(u^{20} - u^{19} + \dots - 3u - 1)(u^{96} + 2u^{95} + \dots - 159407u - 226723)$
c_{11}	$(u^{20} - 3u^{19} + \dots + 6u + 1)(u^{96} - 6u^{95} + \dots - 14458u + 1789)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{20} - 14y^{19} + \dots + 40y^2 + 1)$ $\cdot (y^{96} - 73y^{95} + \dots + 553636226y + 27447121)$
c_2, c_9	$(y^{20} + 11y^{19} + \dots + 8y + 1)(y^{96} + 64y^{95} + \dots + 1764038y + 37249)$
c_3	$(y^{20} - 10y^{19} + \dots - 2y + 1)(y^{96} - y^{95} + \dots + 405435y + 2116)$
c_4, c_7	$(y^{20} - 10y^{19} + \dots - 8y + 1)(y^{96} - 53y^{95} + \dots - 127426y + 10201)$
c_6	$(y^{20} - 5y^{19} + \dots - 9y + 1)(y^{96} - 4y^{95} + \dots - 559y + 1)$
c_8	$(y^{20} - 19y^{19} + \dots - 15y + 1)$ $\cdot (y^{96} - 10y^{95} + \dots + 3636544y + 135424)$
c_{10}	$(y^{20} - y^{19} + \dots - 19y + 1)$ $\cdot (y^{96} - 36y^{95} + \dots - 374201254849y + 51403318729)$
c_{11}	$(y^{20} + 3y^{19} + \dots - 24y + 1)$ $\cdot (y^{96} - 16y^{95} + \dots - 110849866y + 3200521)$