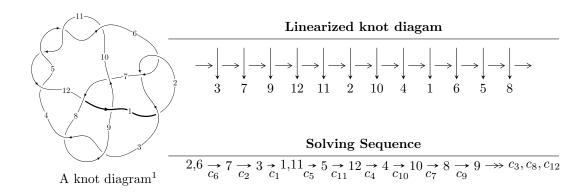
$12a_{0610} (K12a_{0610})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.93763 \times 10^{105} u^{84} + 6.40033 \times 10^{105} u^{83} + \dots + 5.22721 \times 10^{105} b - 5.47893 \times 10^{106}, \\ &- 1.05688 \times 10^{107} u^{84} + 1.58154 \times 10^{107} u^{83} + \dots + 9.93169 \times 10^{106} a + 6.22411 \times 10^{108}, \\ &u^{85} - 2u^{84} + \dots - 29u + 19 \rangle \\ I_2^u &= \langle -u^{16} - u^{15} + \dots + b - 3, \\ &- u^{14} - u^{13} + 3u^{12} + 2u^{11} - 8u^{10} - 4u^9 + 12u^8 + 3u^7 - 15u^6 - 3u^5 + 12u^4 + u^3 - 5u^2 + a + 2, \\ &u^{17} + u^{16} + \dots + u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 102 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.
$$I_1^u = \langle -1.94 \times 10^{105} u^{84} + 6.40 \times 10^{105} u^{83} + \dots + 5.23 \times 10^{105} b - 5.48 \times 10^{106}, \ -1.06 \times 10^{107} u^{84} + 1.58 \times 10^{107} u^{83} + \dots + 9.93 \times 10^{106} a + 6.22 \times 10^{108}, \ u^{85} - 2u^{84} + \dots - 29u + 19 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 1 \\ u^{5} - u^{3} + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.06415u^{84} - 1.59242u^{83} + \dots - 9.71962u - 62.6691 \\ 0.370682u^{84} - 1.22443u^{83} + \dots - 53.3393u + 10.4816 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.366811u^{84} - 0.137769u^{83} + \dots - 48.4547u + 21.4022 \\ -0.349390u^{84} + 0.613843u^{83} + \dots + 15.4483u + 13.8709 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.0586430u^{84} + 0.345218u^{83} + \dots - 33.7770u - 4.01764 \\ -0.898344u^{84} + 2.16337u^{83} + \dots + 76.0579u - 28.6076 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.35820u^{84} - 1.82953u^{83} + \dots + 44.0089u - 36.4802 \\ -0.879980u^{84} + 1.21621u^{83} + \dots + 13.8302u + 15.4803 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.43484u^{84} - 2.81684u^{83} + \dots - 63.0589u - 52.1876 \\ 0.370682u^{84} - 1.22443u^{83} + \dots - 53.3393u + 10.4816 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.861966u^{84} - 1.69287u^{83} + \dots + 24.3927u - 72.7494 \\ -0.0526491u^{84} + 0.252680u^{83} + \dots - 29.5740u + 4.29926 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1.28326u^{84} - 2.26001u^{83} + \dots - 61.0116u - 45.5381 \\ 0.329735u^{84} - 1.20748u^{83} + \dots - 42.6117u + 13.5326 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.130039u^{84} + 0.718141u^{83} + \cdots + 77.5891u 93.5890$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{85} + 30u^{84} + \dots + 17713u + 361$
c_2, c_6	$u^{85} - 2u^{84} + \dots - 29u + 19$
c_3, c_8	$u^{85} - u^{84} + \dots + 26u + 19$
c_4, c_5, c_{10} c_{11}	$u^{85} + u^{84} + \dots - 13u + 1$
c_7	$u^{85} - 14u^{84} + \dots - 548721u + 148409$
<i>c</i> ₉	$u^{85} + 4u^{84} + \dots + 15735u + 2737$
c_{12}	$u^{85} - 2u^{84} + \dots - 405993u + 904999$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{85} + 58y^{84} + \dots + 17060353y - 130321$
c_2, c_6	$y^{85} - 30y^{84} + \dots + 17713y - 361$
c_3, c_8	$y^{85} + 77y^{84} + \dots - 5556y - 361$
c_4, c_5, c_{10} c_{11}	$y^{85} + 109y^{84} + \dots - 127y - 1$
C ₇	$y^{85} + 36y^{84} + \dots - 93911252195y - 22025231281$
<i>c</i> ₉	$y^{85} + 20y^{84} + \dots + 4057439y - 7491169$
c ₁₂	$y^{85} + 44y^{84} + \dots - 15920612859961y - 819023190001$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.647105 + 0.753959I		
a = -0.224133 - 0.420689I	4.70008 + 2.71758I	0
b = 0.824332 - 0.180446I		
u = 0.647105 - 0.753959I		
a = -0.224133 + 0.420689I	4.70008 - 2.71758I	0
b = 0.824332 + 0.180446I		
u = -0.556564 + 0.860766I		
a = -0.36210 - 2.15933I	11.69870 + 0.50746I	0
b = 0.04521 + 1.67260I		
u = -0.556564 - 0.860766I		
a = -0.36210 + 2.15933I	11.69870 - 0.50746I	0
b = 0.04521 - 1.67260I		
u = -0.565073 + 0.787127I		
a = -0.40557 + 2.28724I	11.70450 - 3.80032I	0
b = -0.07092 - 1.67258I		
u = -0.565073 - 0.787127I		
a = -0.40557 - 2.28724I	11.70450 + 3.80032I	0
b = -0.07092 + 1.67258I		
u = -0.811348 + 0.652520I		
a = -1.95108 - 1.86614I	5.99934 + 0.54360I	0
b = 0.002056 + 0.816600I		
u = -0.811348 - 0.652520I		
a = -1.95108 + 1.86614I	5.99934 - 0.54360I	0
b = 0.002056 - 0.816600I		
u = -1.045990 + 0.023525I		
a = 0.675867 + 0.404666I	-2.16388 - 1.62762I	0
b = 0.231608 + 0.627961I		
u = -1.045990 - 0.023525I		
a = 0.675867 - 0.404666I	-2.16388 + 1.62762I	0
b = 0.231608 - 0.627961I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.787091 + 0.701132I		
a = 0.86089 + 1.51565I	6.62681 + 2.54168I	0
b = 0.741333 - 0.874735I		
u = -0.787091 - 0.701132I		
a = 0.86089 - 1.51565I	6.62681 - 2.54168I	0
b = 0.741333 + 0.874735I		
u = 0.727290 + 0.600758I		
a = -0.317175 + 0.570445I	2.60222 - 1.41006I	0
b = 0.240056 - 0.954237I		
u = 0.727290 - 0.600758I		
a = -0.317175 - 0.570445I	2.60222 + 1.41006I	0
b = 0.240056 + 0.954237I		
u = -0.761116 + 0.550447I		
a = -0.341801 - 0.103536I	0.007740 + 0.354268I	0
b = -0.523133 - 0.083727I		
u = -0.761116 - 0.550447I		
a = -0.341801 + 0.103536I	0.007740 - 0.354268I	0
b = -0.523133 + 0.083727I		
u = -1.067980 + 0.060235I		
a = -0.656023 + 0.333160I	-1.04027 + 2.23555I	0
b = -0.638161 - 0.121268I		
u = -1.067980 - 0.060235I		
a = -0.656023 - 0.333160I	-1.04027 - 2.23555I	0
b = -0.638161 + 0.121268I		
u = 0.826055 + 0.686952I		
a = -0.20738 + 3.33992I	15.0313 - 4.7059I	0
b = -0.01217 - 1.69343I		
u = 0.826055 - 0.686952I		
a = -0.20738 - 3.33992I	15.0313 + 4.7059I	0
b = -0.01217 + 1.69343I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.609980 + 0.679262I		
a = -0.325099 - 1.045890I	2.83585 + 2.41811I	-12.00000 + 0.I
b = -0.300819 + 0.858960I		
u = 0.609980 - 0.679262I		
a = -0.325099 + 1.045890I	2.83585 - 2.41811I	-12.00000 + 0.I
b = -0.300819 - 0.858960I		
u = -0.612018 + 0.899881I		
a = -0.281445 - 1.092780I	8.33566 - 7.04031I	0
b = 0.488638 + 1.001550I		
u = -0.612018 - 0.899881I		
a = -0.281445 + 1.092780I	8.33566 + 7.04031I	0
b = 0.488638 - 1.001550I		
u = 0.897868 + 0.155214I		
a = 1.37373 - 0.80599I	-3.24400 - 0.43047I	-16.2817 + 10.9205I
b = 0.303749 + 0.272887I		
u = 0.897868 - 0.155214I		
a = 1.37373 + 0.80599I	-3.24400 + 0.43047I	-16.2817 - 10.9205I
b = 0.303749 - 0.272887I		
u = -0.813594 + 0.405787I		
a = 1.90281 + 1.78662I	2.17807 + 1.68544I	-12.00000 + 0.I
b = 0.089790 - 1.372960I		
u = -0.813594 - 0.405787I		
a = 1.90281 - 1.78662I	2.17807 - 1.68544I	-12.00000 + 0.I
b = 0.089790 + 1.372960I		
u = -0.892941 + 0.643912I		
a = 0.02925 - 2.05496I	5.74174 + 4.50633I	0
b = -0.032718 + 0.920802I		
u = -0.892941 - 0.643912I		
a = 0.02925 + 2.05496I	5.74174 - 4.50633I	0
b = -0.032718 - 0.920802I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.830217 + 0.723714I		
a = 0.56953 - 2.00230I	15.7652 + 0.8537I	0
b = -0.17837 + 1.75045I		
u = 0.830217 - 0.723714I		
a = 0.56953 + 2.00230I	15.7652 - 0.8537I	0
b = -0.17837 - 1.75045I		
u = 0.562524 + 0.698432I		
a = -0.632069 + 0.699105I	3.91125 - 0.86087I	-7.44019 + 3.38376I
b = 0.148063 + 0.105521I		
u = 0.562524 - 0.698432I		
a = -0.632069 - 0.699105I	3.91125 + 0.86087I	-7.44019 - 3.38376I
b = 0.148063 - 0.105521I		
u = -0.932054 + 0.609477I		
a = 0.517583 + 0.527861I	-0.55714 + 4.33362I	0
b = 0.576720 + 0.064604I		
u = -0.932054 - 0.609477I		
a = 0.517583 - 0.527861I	-0.55714 - 4.33362I	0
b = 0.576720 - 0.064604I		
u = 0.893893 + 0.681468I		
a = -2.65625 + 2.64884I	14.8209 - 0.5681I	0
b = -0.00283 - 1.67019I		
u = 0.893893 - 0.681468I		
a = -2.65625 - 2.64884I	14.8209 + 0.5681I	0
b = -0.00283 + 1.67019I		
u = 0.954964 + 0.633066I		
a = -0.856249 + 0.886381I	1.88427 - 3.52097I	0
b = -0.403009 - 0.741709I		
u = 0.954964 - 0.633066I		
a = -0.856249 - 0.886381I	1.88427 + 3.52097I	0
b = -0.403009 + 0.741709I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.898469 + 0.713573I		
a = 1.90554 - 1.88784I	15.5555 - 6.3400I	0
b = 0.21178 + 1.71770I		
u = 0.898469 - 0.713573I		
a = 1.90554 + 1.88784I	15.5555 + 6.3400I	0
b = 0.21178 - 1.71770I		
u = -0.926032 + 0.681783I		
a = 0.478596 + 0.485534I	6.19768 + 2.77909I	0
b = -0.716859 - 0.982030I		
u = -0.926032 - 0.681783I		
a = 0.478596 - 0.485534I	6.19768 - 2.77909I	0
b = -0.716859 + 0.982030I		
u = -0.446139 + 1.072420I		
a = -0.098836 + 0.989967I	6.78292 + 1.92597I	0
b = 0.121122 - 0.860217I		
u = -0.446139 - 1.072420I		
a = -0.098836 - 0.989967I	6.78292 - 1.92597I	0
b = 0.121122 + 0.860217I		
u = 1.168160 + 0.042928I		
a = 0.554142 + 0.148794I	5.64367 - 2.43731I	0
b = 0.03344 + 1.61381I		
u = 1.168160 - 0.042928I		
a = 0.554142 - 0.148794I	5.64367 + 2.43731I	0
b = 0.03344 - 1.61381I		
u = 0.629848 + 0.994180I		
a = -0.04602 + 2.25812I	17.7707 + 9.5522I	0
b = 0.13524 - 1.71018I		
u = 0.629848 - 0.994180I		
a = -0.04602 - 2.25812I	17.7707 - 9.5522I	0
b = 0.13524 + 1.71018I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.005390 + 0.647624I		
a = 1.45289 - 1.00573I	1.68859 - 7.58283I	0
b = 0.376561 + 0.808119I		
u = 1.005390 - 0.647624I		
a = 1.45289 + 1.00573I	1.68859 + 7.58283I	0
b = 0.376561 - 0.808119I		
u = -0.802068 + 0.045860I		
a = -0.61059 - 1.85147I	11.34640 + 2.99639I	-8.69665 - 2.24681I
b = 0.09331 - 1.61773I		
u = -0.802068 - 0.045860I		
a = -0.61059 + 1.85147I	11.34640 - 2.99639I	-8.69665 + 2.24681I
b = 0.09331 + 1.61773I		
u = 0.789258 + 0.059653I		
a = -1.103960 + 0.847330I	2.55734 - 1.18348I	-8.52720 + 1.71025I
b = -0.328099 - 1.040420I		
u = 0.789258 - 0.059653I		
a = -1.103960 - 0.847330I	2.55734 + 1.18348I	-8.52720 - 1.71025I
b = -0.328099 + 1.040420I		
u = 1.012580 + 0.685568I		
a = -0.181393 + 0.667802I	3.61303 - 8.20470I	0
b = -0.898129 - 0.088432I		
u = 1.012580 - 0.685568I		
a = -0.181393 - 0.667802I	3.61303 + 8.20470I	0
b = -0.898129 + 0.088432I		
u = 1.037250 + 0.662366I		
a = 0.345822 + 0.438701I	2.54217 - 4.42223I	0
b = 0.0335953 - 0.1026880I		
u = 1.037250 - 0.662366I		
a = 0.345822 - 0.438701I	2.54217 + 4.42223I	0
b = 0.0335953 + 0.1026880I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.228980 + 0.203243I		
a = -0.536826 + 0.200839I	0.87355 - 5.82145I	0
b = -0.420598 - 0.753985I		
u = 1.228980 - 0.203243I		
a = -0.536826 - 0.200839I	0.87355 + 5.82145I	0
b = -0.420598 + 0.753985I		
u = -1.049270 + 0.676448I		
a = 2.33788 + 1.53668I	10.28640 + 9.32446I	0
b = 0.09332 - 1.66009I		
u = -1.049270 - 0.676448I		
a = 2.33788 - 1.53668I	10.28640 - 9.32446I	0
b = 0.09332 + 1.66009I		
u = -1.071800 + 0.726814I		
a = -1.01750 - 1.29587I	6.9269 + 13.0405I	0
b = -0.566947 + 0.990313I		
u = -1.071800 - 0.726814I		
a = -1.01750 + 1.29587I	6.9269 - 13.0405I	0
b = -0.566947 - 0.990313I		
u = -1.087270 + 0.727678I		
a = -1.41199 - 1.55195I	10.13050 + 5.39662I	0
b = -0.10415 + 1.64080I		
u = -1.087270 - 0.727678I		
a = -1.41199 + 1.55195I	10.13050 - 5.39662I	0
b = -0.10415 - 1.64080I		
u = 0.472230 + 1.259750I		
a = 0.13075 - 2.11971I	15.7426 - 2.4908I	0
b = 0.02922 + 1.67563I		
u = 0.472230 - 1.259750I		
a = 0.13075 + 2.11971I	15.7426 + 2.4908I	0
b = 0.02922 - 1.67563I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.107400 + 0.767076I		
a = -1.75743 + 1.77279I	16.2658 - 15.9591I	0
b = -0.16023 - 1.71067I		
u = 1.107400 - 0.767076I		
a = -1.75743 - 1.77279I	16.2658 + 15.9591I	0
b = -0.16023 + 1.71067I		
u = 0.551963 + 0.313389I		
a = -0.964569 + 0.755921I	2.38998 - 1.32990I	-6.70793 + 4.87191I
b = -0.066335 - 1.023540I		
u = 0.551963 - 0.313389I		
a = -0.964569 - 0.755921I	2.38998 + 1.32990I	-6.70793 - 4.87191I
b = -0.066335 + 1.023540I		
u = -1.152350 + 0.798898I		
a = 0.770641 + 0.797164I	4.70193 + 4.76066I	0
b = 0.045398 - 0.819870I		
u = -1.152350 - 0.798898I		
a = 0.770641 - 0.797164I	4.70193 - 4.76066I	0
b = 0.045398 + 0.819870I		
u = -1.380490 + 0.277313I		
a = -0.656547 - 0.660540I	9.14952 + 7.66751I	0
b = -0.09664 + 1.64151I		
u = -1.380490 - 0.277313I		
a = -0.656547 + 0.660540I	9.14952 - 7.66751I	0
b = -0.09664 - 1.64151I		
u = -0.563721 + 0.067562I		
a = -1.40491 + 1.49605I	12.20380 - 2.58863I	-11.77943 + 3.33602I
b = -0.06817 - 1.70836I		
u = -0.563721 - 0.067562I		
a = -1.40491 - 1.49605I	12.20380 + 2.58863I	-11.77943 - 3.33602I
b = -0.06817 + 1.70836I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.21378 + 0.87933I		
a = 1.10685 - 1.70532I	13.5267 - 4.9848I	0
b = 0.01240 + 1.66995I		
u = 1.21378 - 0.87933I		
a = 1.10685 + 1.70532I	13.5267 + 4.9848I	0
b = 0.01240 - 1.66995I		
u = 0.414901 + 0.112651I		
a = -0.19032 + 3.03332I	3.75166 - 1.38468I	-10.94065 + 4.57640I
b = 0.365746 + 0.532815I		
u = 0.414901 - 0.112651I		
a = -0.19032 - 3.03332I	3.75166 + 1.38468I	-10.94065 - 4.57640I
b = 0.365746 - 0.532815I		
u = -0.310404		
a = -0.683642	-0.534005	-18.4650
b = -0.308825		

$$II. \\ I_2^u = \langle -u^{16} - u^{15} + \dots + b - 3, \ -u^{14} - u^{13} + \dots + a + 2, \ u^{17} + u^{16} + \dots + u + 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} u^{14} + u^{13} + \dots + 5u^{2} - 2 \\ u^{16} + u^{15} + \dots - 10u^{2} + 3 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -u^{13} - u^{12} + 2u^{11} + 2u^{10} - 5u^{9} - 4u^{8} + 4u^{7} + 3u^{6} - 5u^{5} - 3u^{4} + u^{3} + u^{2} \\ -2u^{16} - u^{15} + \dots + 6u^{2} - 2u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u^{16} - u^{15} + \dots + u - 1 \\ -2u^{16} - 2u^{15} + \dots + 2u - 4 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} u^{14} - 3u^{12} + 7u^{10} - u^{9} - 9u^{8} + u^{7} + 10u^{6} - 2u^{5} - 7u^{4} - u^{3} + 3u^{2} + u - 1 \\ 3u^{16} + u^{15} + \dots + 3u + 2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^{16} + u^{15} + \dots - 5u^{2} + 1 \\ u^{16} + u^{15} + \dots - 10u^{2} + 3 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{16} - u^{15} + \dots + 3u - 1 \\ u^{16} - u^{15} + \dots + 3u - 1 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{16} - 3u^{14} + \dots + u + 1 \\ u^{16} + u^{15} + \dots - 9u^{2} + 3 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-2u^{16} + 5u^{15} + 11u^{14} - 14u^{13} - 28u^{12} + 38u^{11} + 47u^{10} - 53u^9 - 58u^8 + 68u^7 + 52u^6 - 51u^5 - 40u^4 + 26u^3 + 16u^2 - 12u - 11$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 7u^{16} + \dots + 7u - 1$
c_2	$u^{17} - u^{16} + \dots + u - 1$
c_3	$u^{17} + 10u^{15} + \dots + 4u - 3$
c_4,c_5	$u^{17} + 12u^{15} + \dots + 7u + 1$
c_6	$u^{17} + u^{16} + \dots + u + 1$
C ₇	$u^{17} + 3u^{16} + \dots - 3u - 1$
C ₈	$u^{17} + 10u^{15} + \dots + 4u + 3$
<i>C</i> 9	$u^{17} + 3u^{16} + \dots + u - 1$
c_{10}, c_{11}	$u^{17} + 12u^{15} + \dots + 7u - 1$
c_{12}	$u^{17} + u^{16} + \dots - 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} + 13y^{16} + \dots - 13y - 1$
c_2, c_6	$y^{17} - 7y^{16} + \dots + 7y - 1$
c_3, c_8	$y^{17} + 20y^{16} + \dots + 10y - 9$
c_4, c_5, c_{10} c_{11}	$y^{17} + 24y^{16} + \dots + 35y - 1$
C ₇	$y^{17} + 3y^{16} + \dots - y - 1$
<i>C</i> 9	$y^{17} - y^{16} + \dots - 3y - 1$
c_{12}	$y^{17} + 3y^{16} + \dots + y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.720152 + 0.656706I		
a = 0.79944 + 1.95784I	5.06979 + 2.15267I	-5.68896 - 4.26478I
b = 0.319931 - 0.860450I		
u = -0.720152 - 0.656706I		
a = 0.79944 - 1.95784I	5.06979 - 2.15267I	-5.68896 + 4.26478I
b = 0.319931 + 0.860450I		
u = 0.844913 + 0.200306I		
a = -1.65011 + 0.63197I	1.30360 - 0.87814I	-15.0870 - 0.5641I
b = -0.092358 - 1.290120I		
u = 0.844913 - 0.200306I		
a = -1.65011 - 0.63197I	1.30360 + 0.87814I	-15.0870 + 0.5641I
b = -0.092358 + 1.290120I		
u = -0.862236		
a = -1.51495	-2.99854	-8.51500
b = -0.147176		
u = 0.776801 + 0.839562I		
a = 0.78100 - 2.66977I	14.4535 - 3.1568I	-3.79045 + 2.68402I
b = 0.02762 + 1.69581I		
u = 0.776801 - 0.839562I		
a = 0.78100 + 2.66977I	14.4535 + 3.1568I	-3.79045 - 2.68402I
b = 0.02762 - 1.69581I		
u = -0.942687 + 0.675044I		
a = 0.574582 + 0.958429I	4.37714 + 3.08094I	-6.66676 - 2.63554I
b = -0.246755 - 1.006550I		
u = -0.942687 - 0.675044I		
a = 0.574582 - 0.958429I	4.37714 - 3.08094I	-6.66676 + 2.63554I
b = -0.246755 + 1.006550I		
u = 0.626628 + 0.526088I		
a = 0.105161 - 0.770507I	4.43105 + 0.41822I	-4.85621 - 0.33566I
b = 0.374391 - 0.661733I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.626628 - 0.526088I		
a = 0.105161 + 0.770507I	4.43105 - 0.41822I	-4.85621 + 0.33566I
b = 0.374391 + 0.661733I		
u = 1.084210 + 0.640691I		
a = -0.553437 + 0.314492I	2.82046 - 5.17696I	-5.91305 + 8.94380I
b = -0.309644 - 0.517094I		
u = 1.084210 - 0.640691I		
a = -0.553437 - 0.314492I	2.82046 + 5.17696I	-5.91305 - 8.94380I
b = -0.309644 + 0.517094I		
u = -0.541603 + 0.427521I		
a = -0.051956 - 0.620358I	12.88990 - 2.20254I	-1.59840 - 1.45365I
b = 0.09256 + 1.67798I		
u = -0.541603 - 0.427521I		
a = -0.051956 + 0.620358I	12.88990 + 2.20254I	-1.59840 + 1.45365I
b = 0.09256 - 1.67798I		
u = -1.196990 + 0.623400I		
a = -1.24721 - 0.98437I	10.43660 + 6.68767I	-4.14164 - 6.03567I
b = -0.09216 + 1.61922I		
u = -1.196990 - 0.623400I		
a = -1.24721 + 0.98437I	10.43660 - 6.68767I	-4.14164 + 6.03567I
b = -0.09216 - 1.61922I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17} - 7u^{16} + \dots + 7u - 1)(u^{85} + 30u^{84} + \dots + 17713u + 361)$
c_2	$(u^{17} - u^{16} + \dots + u - 1)(u^{85} - 2u^{84} + \dots - 29u + 19)$
c_3	$(u^{17} + 10u^{15} + \dots + 4u - 3)(u^{85} - u^{84} + \dots + 26u + 19)$
c_4,c_5	$(u^{17} + 12u^{15} + \dots + 7u + 1)(u^{85} + u^{84} + \dots - 13u + 1)$
c_6	$(u^{17} + u^{16} + \dots + u + 1)(u^{85} - 2u^{84} + \dots - 29u + 19)$
	$(u^{17} + 3u^{16} + \dots - 3u - 1)(u^{85} - 14u^{84} + \dots - 548721u + 148409)$
c ₈	$(u^{17} + 10u^{15} + \dots + 4u + 3)(u^{85} - u^{84} + \dots + 26u + 19)$
<i>c</i> 9	$(u^{17} + 3u^{16} + \dots + u - 1)(u^{85} + 4u^{84} + \dots + 15735u + 2737)$
c_{10}, c_{11}	$(u^{17} + 12u^{15} + \dots + 7u - 1)(u^{85} + u^{84} + \dots - 13u + 1)$
c_{12}	$(u^{17} + u^{16} + \dots - 3u + 1)(u^{85} - 2u^{84} + \dots - 405993u + 904999)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17} + 13y^{16} + \dots - 13y - 1)$ $\cdot (y^{85} + 58y^{84} + \dots + 17060353y - 130321)$
c_2, c_6	$(y^{17} - 7y^{16} + \dots + 7y - 1)(y^{85} - 30y^{84} + \dots + 17713y - 361)$
c_3, c_8	$(y^{17} + 20y^{16} + \dots + 10y - 9)(y^{85} + 77y^{84} + \dots - 5556y - 361)$
$c_4, c_5, c_{10} \\ c_{11}$	$(y^{17} + 24y^{16} + \dots + 35y - 1)(y^{85} + 109y^{84} + \dots - 127y - 1)$
c ₇	$(y^{17} + 3y^{16} + \dots - y - 1)$ $\cdot (y^{85} + 36y^{84} + \dots - 93911252195y - 22025231281)$
<i>c</i> ₉	$(y^{17} - y^{16} + \dots - 3y - 1)(y^{85} + 20y^{84} + \dots + 4057439y - 7491169)$
c_{12}	$(y^{17} + 3y^{16} + \dots + y - 1)$ $\cdot (y^{85} + 44y^{84} + \dots - 15920612859961y - 819023190001)$