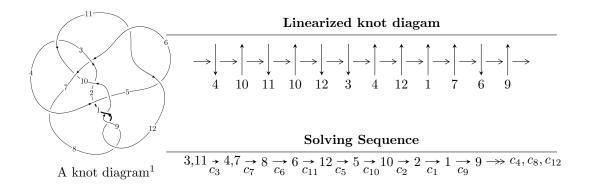
$12n_{0712} \ (K12n_{0712})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 7.16436 \times 10^{249} u^{75} + 2.01743 \times 10^{250} u^{74} + \dots + 3.69252 \times 10^{250} b - 9.34607 \times 10^{250}, \\ &8.19251 \times 10^{249} u^{75} + 2.51790 \times 10^{250} u^{74} + \dots + 3.69252 \times 10^{250} a - 2.00281 \times 10^{251}, \ u^{76} + 3u^{75} + \dots - 40u^{75} u^{76} + 4996901 u^{15} + \dots + 9996367 b - 9918960, \\ &1258838 u^{16} - 20888294 u^{15} + \dots + 9996367 a + 50252931, \ u^{17} + 3u^{15} + \dots + u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 93 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.
$$I_1^u = \langle 7.16 \times 10^{249} u^{75} + 2.02 \times 10^{250} u^{74} + \cdots + 3.69 \times 10^{250} b - 9.35 \times 10^{250}, \ 8.19 \times 10^{249} u^{75} + 2.52 \times 10^{250} u^{74} + \cdots + 3.69 \times 10^{250} a - 2.00 \times 10^{251}, \ u^{76} + 3u^{75} + \cdots - 40u - 8 \rangle$$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \\ u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1 \\ u^{2} \\ 0 \\ 0 \\ 0 = \begin{pmatrix} -0.221867u^{75} - 0.681890u^{74} + \dots + 21.9887u + 5.42396 \\ -0.194023u^{75} - 0.546355u^{74} + \dots + 17.3170u + 2.53108 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.444577u^{75} - 1.31396u^{74} + \dots + 41.7321u + 8.08534 \\ -0.189585u^{75} - 0.533144u^{74} + \dots + 16.9775u + 2.81951 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.415891u^{75} - 1.22824u^{74} + \dots + 39.3057u + 7.95504 \\ -0.194023u^{75} - 0.546355u^{74} + \dots + 17.3170u + 2.53108 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.0622434u^{75} - 0.0455723u^{74} + \dots + 1.87201u + 1.57885 \\ -0.0439022u^{75} - 0.116446u^{74} + \dots + 1.87201u + 1.57885 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.651878u^{75} + 1.92544u^{74} + \dots - 51.0468u - 2.30852 \\ -0.0179655u^{75} - 0.0546002u^{74} + \dots + 3.42243u + 2.09091 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0294076u^{75} + 0.0381562u^{74} + \dots - 28.1824u - 9.55530 \\ 0.0110664u^{75} + 0.0327171u^{74} + \dots - 4.90611u - 0.0809515 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.317501u^{75} - 0.942464u^{74} + \dots + 28.4231u + 3.04039 \\ 0.0616004u^{75} + 0.175235u^{74} + \dots + 28.4231u + 3.04039 \\ 0.0616004u^{75} + 0.181799u^{74} + \dots + 5.56085u - 2.01059 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.299536u^{75} - 0.887864u^{74} + \dots + 25.0007u + 0.949486 \\ 0.0645846u^{75} + 0.181799u^{74} + \dots - 5.38898u - 2.00496 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.442676u^{75} - 1.15751u^{74} + \dots + 2.36444u - 4.96056 \\ -0.0699751u^{75} - 0.183763u^{74} + \dots + 4.34691u + 0.572363 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.982921u^{75} + 2.54015u^{74} + \cdots 83.5290u 1.53183$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{76} + 5u^{75} + \dots + 14139u + 307$
c_2	$u^{76} + 16u^{74} + \dots - 417u + 9$
c_3	$u^{76} - 3u^{75} + \dots + 40u - 8$
c_4	$u^{76} + 25u^{74} + \dots - 40832u - 9472$
c_5,c_{11}	$u^{76} + 21u^{74} + \dots - 7422u - 4041$
c_6	$u^{76} + 5u^{75} + \dots - 14u + 1$
	$u^{76} + u^{75} + \dots + 280u - 19$
c_8, c_9, c_{12}	$u^{76} - 32u^{74} + \dots - 141u + 19$
c_{10}	$u^{76} - 4u^{75} + \dots + 100u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{76} - 57y^{75} + \dots - 374836851y + 94249$
c_2	$y^{76} + 32y^{75} + \dots - 151605y + 81$
c_3	$y^{76} + 13y^{75} + \dots + 1568y + 64$
c_4	$y^{76} + 50y^{75} + \dots + 4136583168y + 89718784$
c_5, c_{11}	$y^{76} + 42y^{75} + \dots + 335290680y + 16329681$
c_6	$y^{76} + 9y^{75} + \dots - 22y + 1$
c_7	$y^{76} + 17y^{75} + \dots - 28924y + 361$
c_8, c_9, c_{12}	$y^{76} - 64y^{75} + \dots + 5199y + 361$
c_{10}	$y^{76} + 10y^{75} + \dots - 8956y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.988673 + 0.157879I		
a = 0.210479 - 0.611484I	0.29226 + 5.94254I	0
b = -0.77585 + 1.64641I		
u = -0.988673 - 0.157879I		
a = 0.210479 + 0.611484I	0.29226 - 5.94254I	0
b = -0.77585 - 1.64641I		
u = -0.856136 + 0.519729I		
a = 0.138708 + 0.873657I	0.21542 + 4.69032I	0
b = -0.09153 - 1.49560I		
u = -0.856136 - 0.519729I		
a = 0.138708 - 0.873657I	0.21542 - 4.69032I	0
b = -0.09153 + 1.49560I		
u = -0.791352 + 0.617036I		
a = 0.037093 + 1.016310I	0.55399 + 4.14989I	0
b = 0.642295 - 1.104590I		
u = -0.791352 - 0.617036I		
a = 0.037093 - 1.016310I	0.55399 - 4.14989I	0
b = 0.642295 + 1.104590I		
u = 0.274686 + 0.996744I		
a = -0.488851 - 0.812735I	6.38323 - 2.69065I	0
b = -0.457165 + 0.633310I		
u = 0.274686 - 0.996744I		
a = -0.488851 + 0.812735I	6.38323 + 2.69065I	0
b = -0.457165 - 0.633310I		
u = -0.836004 + 0.659794I		
a = 0.06104 - 1.56008I	-6.58488 + 4.99744I	0
b = -0.880984 + 0.616441I		
u = -0.836004 - 0.659794I		
a = 0.06104 + 1.56008I	-6.58488 - 4.99744I	0
b = -0.880984 - 0.616441I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.347092 + 0.856959I		
a = 1.28732 + 1.16537I	3.58206 + 8.75485I	8.32937 - 7.77105I
b = 0.451088 - 0.953532I		
u = -0.347092 - 0.856959I		
a = 1.28732 - 1.16537I	3.58206 - 8.75485I	8.32937 + 7.77105I
b = 0.451088 + 0.953532I		
u = 0.878556 + 0.200637I		
a = 0.238847 - 0.740853I	-3.57909 + 0.60336I	-2.63945 + 2.67457I
b = -0.40970 + 1.78620I		
u = 0.878556 - 0.200637I		
a = 0.238847 + 0.740853I	-3.57909 - 0.60336I	-2.63945 - 2.67457I
b = -0.40970 - 1.78620I		
u = 0.699124 + 0.554855I		
a = 0.15882 + 1.84694I	-2.66450 + 0.00138I	0.99118 + 2.31235I
b = -0.853372 - 0.594063I		
u = 0.699124 - 0.554855I		
a = 0.15882 - 1.84694I	-2.66450 - 0.00138I	0.99118 - 2.31235I
b = -0.853372 + 0.594063I		
u = 0.644694 + 0.906666I		
a = -0.091006 - 1.240470I	9.65535 - 5.48513I	0
b = 1.00187 + 1.51947I		
u = 0.644694 - 0.906666I		
a = -0.091006 + 1.240470I	9.65535 + 5.48513I	0
b = 1.00187 - 1.51947I		
u = 0.394933 + 0.781994I		
a = 1.36967 - 1.13329I	-1.42075 - 4.05339I	4.25074 + 6.84714I
b = 0.361605 + 0.847407I		
u = 0.394933 - 0.781994I		
a = 1.36967 + 1.13329I	-1.42075 + 4.05339I	4.25074 - 6.84714I
b = 0.361605 - 0.847407I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.723650 + 0.459547I		
a = 0.035116 - 0.774350I	-1.18749 - 1.04073I	-2.87515 + 1.88476I
b = 0.655940 + 0.546441I		
u = 0.723650 - 0.459547I		
a = 0.035116 + 0.774350I	-1.18749 + 1.04073I	-2.87515 - 1.88476I
b = 0.655940 - 0.546441I		
u = 0.802133 + 0.883320I		
a = -0.451106 - 0.482056I	6.65595 - 3.01746I	0
b = -0.418768 - 0.183701I		
u = 0.802133 - 0.883320I		
a = -0.451106 + 0.482056I	6.65595 + 3.01746I	0
b = -0.418768 + 0.183701I		
u = 0.925583 + 0.764929I		
a = 0.027137 + 1.376180I	-2.50803 - 9.92376I	0
b = -0.895559 - 0.641011I		
u = 0.925583 - 0.764929I		
a = 0.027137 - 1.376180I	-2.50803 + 9.92376I	0
b = -0.895559 + 0.641011I		
u = -0.464123 + 0.622645I		
a = 1.42148 + 1.07836I	1.25423 - 0.69104I	7.01445 - 3.43740I
b = 0.249050 - 0.626220I		
u = -0.464123 - 0.622645I		
a = 1.42148 - 1.07836I	1.25423 + 0.69104I	7.01445 + 3.43740I
b = 0.249050 + 0.626220I		
u = -1.24798		
a = 0.00845205	2.40053	0
b = 0.614730		
u = -0.245836 + 0.608610I		
a = -1.01333 + 1.76814I	1.92153 + 0.94962I	-2.98543 - 0.44875I
b = -0.189251 - 0.380413I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.245836 - 0.608610I		
a = -1.01333 - 1.76814I	1.92153 - 0.94962I	-2.98543 + 0.44875I
b = -0.189251 + 0.380413I		
u = 0.079389 + 0.643195I		
a = 1.88748 - 1.54979I	9.02338 + 2.28669I	0.66173 + 6.35182I
b = -0.427883 + 0.986505I		
u = 0.079389 - 0.643195I		
a = 1.88748 + 1.54979I	9.02338 - 2.28669I	0.66173 - 6.35182I
b = -0.427883 - 0.986505I		
u = 0.659231 + 1.237980I		
a = -0.029277 + 0.560989I	8.19481 - 3.33586I	0
b = -0.983298 - 0.893974I		
u = 0.659231 - 1.237980I		
a = -0.029277 - 0.560989I	8.19481 + 3.33586I	0
b = -0.983298 + 0.893974I		
u = -0.98850 + 1.01710I		
a = -0.138103 + 0.999293I	-0.46066 + 6.48918I	0
b = 1.06198 - 1.21767I		
u = -0.98850 - 1.01710I		
a = -0.138103 - 0.999293I	-0.46066 - 6.48918I	0
b = 1.06198 + 1.21767I		
u = -0.328939 + 0.463886I		
a = 1.55302 + 0.64027I	1.328470 - 0.474798I	6.36942 - 0.30577I
b = -0.053887 - 0.497588I		
u = -0.328939 - 0.463886I		
a = 1.55302 - 0.64027I	1.328470 + 0.474798I	6.36942 + 0.30577I
b = -0.053887 + 0.497588I		
u = 0.534569 + 0.150336I		
a = -0.376119 - 1.361820I	-2.20215 - 2.11422I	-3.95825 + 2.02066I
b = 1.31070 + 0.63115I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.534569 - 0.150336I		
a = -0.376119 + 1.361820I	-2.20215 + 2.11422I	-3.95825 - 2.02066I
b = 1.31070 - 0.63115I		
u = 0.526151		
a = 4.68059	3.74373	-111.560
b = 0.222446		
u = -0.97016 + 1.10954I		
a = 0.091135 - 0.575325I	3.43380 + 4.26674I	0
b = -0.885716 + 1.032580I		
u = -0.97016 - 1.10954I		
a = 0.091135 + 0.575325I	3.43380 - 4.26674I	0
b = -0.885716 - 1.032580I		
u = -0.281385 + 0.377115I		
a = -1.73924 + 1.56042I	1.70817 + 1.12824I	3.87173 - 6.48533I
b = -0.465609 + 0.236668I		
u = -0.281385 - 0.377115I		
a = -1.73924 - 1.56042I	1.70817 - 1.12824I	3.87173 + 6.48533I
b = -0.465609 - 0.236668I		
u = 0.130457 + 0.443544I		
a = 0.83864 + 1.48325I	1.75853 - 7.50443I	7.50202 + 11.32011I
b = 1.53456 - 1.51852I		
u = 0.130457 - 0.443544I		
a = 0.83864 - 1.48325I	1.75853 + 7.50443I	7.50202 - 11.32011I
b = 1.53456 + 1.51852I		
u = -0.43167 + 1.47701I		
a = -0.497084 - 0.041859I	-4.34097 + 0.35523I	0
b = 1.065130 + 0.173695I		
u = -0.43167 - 1.47701I		
a = -0.497084 + 0.041859I	-4.34097 - 0.35523I	0
b = 1.065130 - 0.173695I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.03967 + 1.15434I		
a = -0.175674 - 0.949551I	-3.18134 - 11.88140I	0
b = 1.10780 + 1.18726I		
u = 1.03967 - 1.15434I		
a = -0.175674 + 0.949551I	-3.18134 + 11.88140I	0
b = 1.10780 - 1.18726I		
u = -1.07256 + 1.16076I		
a = 0.518563 - 0.163208I	-0.346472 + 1.021960I	0
b = -0.354403 - 0.325175I		
u = -1.07256 - 1.16076I		
a = 0.518563 + 0.163208I	-0.346472 - 1.021960I	0
b = -0.354403 + 0.325175I		
u = -0.065520 + 0.389048I		
a = -3.90518 + 0.23427I	3.88542 + 0.95380I	-0.53894 + 3.77835I
b = -0.663122 - 0.134399I		
u = -0.065520 - 0.389048I		
a = -3.90518 - 0.23427I	3.88542 - 0.95380I	-0.53894 - 3.77835I
b = -0.663122 + 0.134399I		
u = 0.91249 + 1.33131I		
a = 0.152639 + 0.727902I	2.28311 - 5.16223I	0
b = -0.806727 - 0.838803I		
u = 0.91249 - 1.33131I		
a = 0.152639 - 0.727902I	2.28311 + 5.16223I	0
b = -0.806727 + 0.838803I		
u = 0.18899 + 1.60874I		
a = -0.579596 + 0.139074I	0.43258 - 3.98462I	0
b = 1.208120 - 0.259339I		
u = 0.18899 - 1.60874I		
a = -0.579596 - 0.139074I	0.43258 + 3.98462I	0
b = 1.208120 + 0.259339I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.03600 + 1.25835I		
a = -0.207314 + 0.919011I	1.8826 + 16.8363I	0
b = 1.13468 - 1.16952I		
u = -1.03600 - 1.25835I		
a = -0.207314 - 0.919011I	1.8826 - 16.8363I	0
b = 1.13468 + 1.16952I		
u = -0.95108 + 1.32857I		
a = 0.036047 - 0.766370I	6.15358 + 7.92208I	0
b = -0.884370 + 0.831483I		
u = -0.95108 - 1.32857I		
a = 0.036047 + 0.766370I	6.15358 - 7.92208I	0
b = -0.884370 - 0.831483I		
u = 0.82591 + 1.43030I		
a = -0.368712 - 0.006518I	-0.90960 + 3.32063I	0
b = 0.909492 - 0.149096I		
u = 0.82591 - 1.43030I		
a = -0.368712 + 0.006518I	-0.90960 - 3.32063I	0
b = 0.909492 + 0.149096I		
u = -0.196925 + 0.198557I		
a = 0.87584 - 2.14816I	-3.96027 + 2.48444I	-5.35559 - 12.59159I
b = 1.92387 + 1.05055I		
u = -0.196925 - 0.198557I		
a = 0.87584 + 2.14816I	-3.96027 - 2.48444I	-5.35559 + 12.59159I
b = 1.92387 - 1.05055I		
u = 1.27946 + 1.20751I		
a = 0.135069 + 0.566822I	6.23257 - 5.85237I	0
b = -0.726578 - 1.080900I		
u = 1.27946 - 1.20751I		
a = 0.135069 - 0.566822I	6.23257 + 5.85237I	0
b = -0.726578 + 1.080900I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.94793 + 1.50677I		
a = 0.230301 - 0.619665I	5.82633 + 2.70104I	0
b = -0.682958 + 0.866149I		
u = -0.94793 - 1.50677I		
a = 0.230301 + 0.619665I	5.82633 - 2.70104I	0
b = -0.682958 - 0.866149I		
u = 1.50227 + 0.97016I		
a = 0.381804 + 0.242487I	-4.02902 + 3.33307I	0
b = -0.322820 + 0.301588I		
u = 1.50227 - 0.97016I		
a = 0.381804 - 0.242487I	-4.02902 - 3.33307I	0
b = -0.322820 - 0.301588I		
u = -1.83497 + 0.74700I		
a = 0.279823 - 0.271827I	0.17127 - 7.70833I	0
b = -0.307214 - 0.279280I		
u = -1.83497 - 0.74700I		
a = 0.279823 + 0.271827I	0.17127 + 7.70833I	0
b = -0.307214 + 0.279280I		

$$I_2^u = \langle -6.04 \times 10^6 u^{16} + 5.00 \times 10^6 u^{15} + \dots + 1.00 \times 10^7 b - 9.92 \times 10^6, \ 1.26 \times 10^6 u^{16} - 2.09 \times 10^7 u^{15} + \dots + 1.00 \times 10^7 a + 5.03 \times 10^7, \ u^{17} + 3u^{15} + \dots + u - 1 \rangle$$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} -0.125930u^{16} + 2.08959u^{15} + \dots + 10.3993u - 5.02712 \\ 0.604252u^{16} - 0.499872u^{15} + \dots - 2.52114u + 0.992256 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.138953u^{16} + 1.97910u^{15} + \dots + 10.0937u - 6.12445 \\ 0.331276u^{16} - 0.372219u^{15} + \dots - 2.14577u + 0.881767 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.478322u^{16} + 1.58972u^{15} + \dots + 7.87816u - 4.03486 \\ 0.604252u^{16} - 0.499872u^{15} + \dots - 2.52114u + 0.992256 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 2.93753u^{16} - 0.213439u^{15} + \dots - 8.94162u - 5.24626 \\ -1.08959u^{16} - 0.339369u^{15} + \dots + 0.901190u + 1.12593 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 6.72458u^{16} - 0.347814u^{15} + \dots - 15.9518u + 7.15302 \\ -0.0964454u^{16} + 0.0683699u^{15} + \dots + 1.11139u - 0.589717 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 5.12838u^{16} + 0.385878u^{15} + \dots - 9.07212u - 7.23639 \\ -1.10126u^{16} - 0.259949u^{15} + \dots + 1.22931u + 0.864200 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -1.44840u^{16} - 0.264495u^{15} + \dots + 4.16177u - 1.79318 \\ 0.915875u^{16} + 0.244253u^{15} + \dots - 2.29530u + 0.325222 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -1.35195u^{16} - 0.332865u^{15} + \dots + 3.05037u - 1.20347 \\ 0.981428u^{16} + 0.333098u^{15} + \dots - 2.13048u + 0.256852 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.0890174u^{16} - 0.254122u^{15} + \dots + 1.05583u - 5.67538 \\ 0.942381u^{16} + 0.210599u^{15} + \dots - 2.25734u + 0.290593 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{23991057}{9996367}u^{16} + \frac{18751596}{9996367}u^{15} + \dots + \frac{16790502}{9996367}u + \frac{371933198}{9996367}u^{16} + \frac{18751596}{9996367}u^{16} + \dots + \frac{16790502}{9996367}u + \frac{16790502}{9996367}u^{16} + \dots + \frac{16790502}{9996967}u^{16} + \dots + \frac{1$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 8u^{16} + \dots - 7u + 1$
c_2	$u^{17} - u^{16} + \dots + 85u - 11$
<i>c</i> ₃	$u^{17} + 3u^{15} + \dots + u - 1$
C ₄	$u^{17} - u^{16} + \dots - u - 1$
c_5	$u^{17} - u^{16} + \dots - 8u - 5$
<i>C</i> ₆	$u^{17} + 3u^{15} + \dots + 6u + 1$
C ₇	$u^{17} + 4u^{16} + \dots + 6u - 5$
c_8,c_9	$u^{17} - u^{16} + \dots - 3u + 1$
c_{10}	$u^{17} + 3u^{16} + \dots + 3u^2 + 1$
c_{11}	$u^{17} + u^{16} + \dots - 8u + 5$
c_{12}	$u^{17} + u^{16} + \dots - 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} - 14y^{15} + \dots + 5y - 1$
c_2	$y^{17} + 9y^{16} + \dots + 2407y - 121$
c_3	$y^{17} + 6y^{16} + \dots - 9y - 1$
c_4	$y^{17} - y^{16} + \dots + 15y - 1$
c_5,c_{11}	$y^{17} + 11y^{16} + \dots - 186y - 25$
c_6	$y^{17} + 6y^{16} + \dots + 20y - 1$
	$y^{17} + 6y^{16} + \dots + 46y - 25$
c_8, c_9, c_{12}	$y^{17} - 19y^{16} + \dots + 23y - 1$
c_{10}	$y^{17} - y^{16} + \dots - 6y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.972003 + 0.212018I		
a = -0.488289 - 0.271559I	1.01866 + 6.81301I	4.54269 - 5.97212I
b = 0.336060 + 1.308020I		
u = 0.972003 - 0.212018I		
a = -0.488289 + 0.271559I	1.01866 - 6.81301I	4.54269 + 5.97212I
b = 0.336060 - 1.308020I		
u = 0.192968 + 1.105900I		
a = -0.631721 + 0.168013I	-0.82435 - 2.10930I	2.15224 + 0.70653I
b = 0.883233 + 0.254108I		
u = 0.192968 - 1.105900I		
a = -0.631721 - 0.168013I	-0.82435 + 2.10930I	2.15224 - 0.70653I
b = 0.883233 - 0.254108I		
u = -0.506977 + 0.637369I		
a = -0.605526 + 0.069770I	-3.76213 - 1.93723I	0.705082 + 0.084395I
b = 1.09502 - 0.93131I		
u = -0.506977 - 0.637369I		
a = -0.605526 - 0.069770I	-3.76213 + 1.93723I	0.705082 - 0.084395I
b = 1.09502 + 0.93131I		
u = -0.637103 + 1.057460I		
a = 0.126961 - 1.026520I	10.56410 + 5.07740I	12.18176 - 3.44506I
b = -1.02655 + 1.38119I		
u = -0.637103 - 1.057460I		
a = 0.126961 + 1.026520I	10.56410 - 5.07740I	12.18176 + 3.44506I
b = -1.02655 - 1.38119I		
u = 0.030058 + 0.707978I		
a = -1.63369 - 1.72427I	9.31524 - 2.53943I	17.0890 + 7.0986I
b = 0.275529 + 0.997923I		
u = 0.030058 - 0.707978I		
a = -1.63369 + 1.72427I	9.31524 + 2.53943I	17.0890 - 7.0986I
b = 0.275529 - 0.997923I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.632350		
a = 3.11676	3.79508	54.1520
b = 0.186461		
u = -0.114173 + 0.525642I		
a = -2.08531 + 2.37442I	2.27870 + 0.92922I	21.3078 + 0.7119I
b = -0.061878 - 0.492319I		
u = -0.114173 - 0.525642I		
a = -2.08531 - 2.37442I	2.27870 - 0.92922I	21.3078 - 0.7119I
b = -0.061878 + 0.492319I		
u = 0.95698 + 1.17980I		
a = 0.103371 + 0.669932I	3.84695 - 4.69977I	8.87800 + 7.79886I
b = -0.831065 - 1.058980I		
u = 0.95698 - 1.17980I		
a = 0.103371 - 0.669932I	3.84695 + 4.69977I	8.87800 - 7.79886I
b = -0.831065 + 1.058980I		
u = -1.20993 + 1.50887I		
a = 0.155831 - 0.457656I	6.91907 + 4.78852I	9.06731 - 5.35952I
b = -0.763587 + 0.778846I		
u = -1.20993 - 1.50887I		
a = 0.155831 + 0.457656I	6.91907 - 4.78852I	9.06731 + 5.35952I
b = -0.763587 - 0.778846I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{17} - 8u^{16} + \dots - 7u + 1)(u^{76} + 5u^{75} + \dots + 14139u + 307) \right $
c_2	$(u^{17} - u^{16} + \dots + 85u - 11)(u^{76} + 16u^{74} + \dots - 417u + 9)$
c_3	$ (u^{17} + 3u^{15} + \dots + u - 1)(u^{76} - 3u^{75} + \dots + 40u - 8) $
c_4	$(u^{17} - u^{16} + \dots - u - 1)(u^{76} + 25u^{74} + \dots - 40832u - 9472)$
c_5	$ (u^{17} - u^{16} + \dots - 8u - 5)(u^{76} + 21u^{74} + \dots - 7422u - 4041) $
c_6	$(u^{17} + 3u^{15} + \dots + 6u + 1)(u^{76} + 5u^{75} + \dots - 14u + 1)$
C ₇	$(u^{17} + 4u^{16} + \dots + 6u - 5)(u^{76} + u^{75} + \dots + 280u - 19)$
c_8,c_9	$(u^{17} - u^{16} + \dots - 3u + 1)(u^{76} - 32u^{74} + \dots - 141u + 19)$
c_{10}	$(u^{17} + 3u^{16} + \dots + 3u^2 + 1)(u^{76} - 4u^{75} + \dots + 100u - 1)$
c_{11}	$(u^{17} + u^{16} + \dots - 8u + 5)(u^{76} + 21u^{74} + \dots - 7422u - 4041)$
c_{12}	$(u^{17} + u^{16} + \dots - 3u - 1)(u^{76} - 32u^{74} + \dots - 141u + 19)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17} - 14y^{15} + \dots + 5y - 1)$ $\cdot (y^{76} - 57y^{75} + \dots - 374836851y + 94249)$
c_2	$y^{17} + 9y^{16} + \dots + 2407y - 121(y^{76} + 32y^{75} + \dots - 151605y + 81)$
c_3	$(y^{17} + 6y^{16} + \dots - 9y - 1)(y^{76} + 13y^{75} + \dots + 1568y + 64)$
C4	$(y^{17} - y^{16} + \dots + 15y - 1)$ $\cdot (y^{76} + 50y^{75} + \dots + 4136583168y + 89718784)$
c_5, c_{11}	$(y^{17} + 11y^{16} + \dots - 186y - 25)$ $\cdot (y^{76} + 42y^{75} + \dots + 335290680y + 16329681)$
c_6	$(y^{17} + 6y^{16} + \dots + 20y - 1)(y^{76} + 9y^{75} + \dots - 22y + 1)$
<i>C</i> ₇	$(y^{17} + 6y^{16} + \dots + 46y - 25)(y^{76} + 17y^{75} + \dots - 28924y + 361)$
c_8, c_9, c_{12}	$(y^{17} - 19y^{16} + \dots + 23y - 1)(y^{76} - 64y^{75} + \dots + 5199y + 361)$
c_{10}	$(y^{17} - y^{16} + \dots - 6y - 1)(y^{76} + 10y^{75} + \dots - 8956y + 1)$