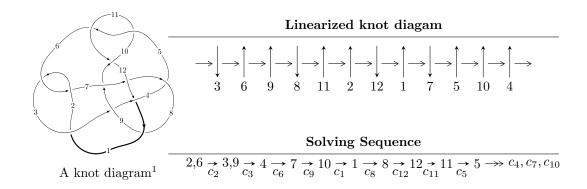
$12a_{0364} \ (K12a_{0364})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 3.06101 \times 10^{668} u^{182} + 1.45399 \times 10^{669} u^{181} + \dots + 3.50750 \times 10^{668} b + 1.63631 \times 10^{672}, \\ &- 4.31223 \times 10^{671} u^{182} + 1.20316 \times 10^{672} u^{181} + \dots + 3.97400 \times 10^{671} a + 1.18875 \times 10^{675}, \\ &u^{183} + u^{182} + \dots + 4256 u + 1133 \rangle \\ I_2^u &= \langle 24823104 u^{41} - 19103471 u^{40} + \dots + 3944339 b - 19426104, \\ &10847937 u^{41} - 23370443 u^{40} + \dots + 3944339 a + 1833879, \ u^{42} + 11 u^{40} + \dots - u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 225 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.
$$I_1^u = \langle 3.06 \times 10^{668} u^{182} + 1.45 \times 10^{669} u^{181} + \dots + 3.51 \times 10^{668} b + 1.64 \times 10^{672}, \ -4.31 \times 10^{671} u^{182} + 1.20 \times 10^{672} u^{181} + \dots + 3.97 \times 10^{671} a + 1.19 \times 10^{675}, \ u^{183} + u^{182} + \dots + 4256 u + 1133 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} 1.08511u^{182} - 3.02757u^{181} + \dots - 7046.61u - 2991.31 \\ -0.872703u^{182} - 4.14537u^{181} + \dots - 13315.2u - 4665.18 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.12129u^{182} + 0.925627u^{181} + \dots + 4093.75u + 1132.16 \\ 1.05786u^{182} + 1.82765u^{181} + \dots + 6881.98u + 2201.09 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.139695u^{182} - 1.77491u^{181} + \dots - 5689.73u - 2039.58 \\ -2.09751u^{182} - 2.89272u^{181} + \dots - 11958.4u - 3713.44 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} -0.320040u^{182} - 2.23656u^{181} + \dots - 7280.85u - 2535.00 \\ -1.70018u^{182} - 2.74137u^{181} + \dots - 10716.3u - 3390.53 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.323583u^{182} - 0.355194u^{181} + \dots - 1218.60u - 260.576 \\ -2.31378u^{182} - 1.07817u^{181} + \dots - 5843.16u - 1298.01 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.0734871u^{182} + 2.24058u^{181} + \dots + 6864.55u + 2639.36 \\ -3.39552u^{182} + 1.13443u^{181} + \dots - 496.042u + 1175.34 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1.99923u^{182} + 1.23701u^{181} + \dots + 6552.84u + 1660.68 \\ 1.79503u^{182} - 4.25068u^{181} + \dots - 10911.1u - 4668.15 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $1.45862u^{182} + 0.408690u^{181} + \dots + 1561.89u + 128.705$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{183} + 77u^{182} + \dots - 46277120u - 1283689$
c_2, c_6	$u^{183} - u^{182} + \dots + 4256u - 1133$
<i>c</i> ₃	$u^{183} + u^{182} + \dots + 31u - 3$
c_4	$u^{183} + 3u^{182} + \dots + 555350u - 53533$
c_5,c_{10}	$u^{183} + u^{182} + \dots - 173u - 59$
C ₇	$u^{183} - 2u^{182} + \dots + 334697u - 27379$
<i>c</i> ₈	$u^{183} - 5u^{182} + \dots - 6926u - 485$
c_9	$u^{183} + 7u^{182} + \dots + 1157925u - 194803$
c_{11}	$u^{183} - 87u^{182} + \dots + 82911u - 3481$
c_{12}	$u^{183} + 16u^{182} + \dots - 199u - 7$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{183} + 65y^{182} + \dots - 180776219221564y - 1647857448721$
c_2, c_6	$y^{183} + 77y^{182} + \dots - 46277120y - 1283689$
<i>c</i> ₃	$y^{183} - 17y^{182} + \dots + 67y - 9$
c_4	$y^{183} + 11y^{182} + \dots - 122436449664y - 2865782089$
c_5,c_{10}	$y^{183} - 87y^{182} + \dots + 82911y - 3481$
C ₇	$y^{183} - 28y^{182} + \dots - 2771494231y - 749609641$
C ₈	$y^{183} - 29y^{182} + \dots - 40132714y - 235225$
<i>C</i> 9	$y^{183} - 11y^{182} + \dots - 18463850066073y - 37948208809$
c_{11}	$y^{183} + 33y^{182} + \dots + 364826579y - 12117361$
c_{12}	$y^{183} + 10y^{182} + \dots - 2819y - 49$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.002506 + 1.001090I		
a = -0.301136 + 1.067720I	-2.35185 - 1.36074I	0
b = 0.015541 + 0.450831I		
u = 0.002506 - 1.001090I		
a = -0.301136 - 1.067720I	-2.35185 + 1.36074I	0
b = 0.015541 - 0.450831I		
u = 0.657408 + 0.760366I		
a = 0.640158 - 0.397181I	3.94780 - 1.03684I	0
b = -0.0807366 + 0.0498924I		
u = 0.657408 - 0.760366I		
a = 0.640158 + 0.397181I	3.94780 + 1.03684I	0
b = -0.0807366 - 0.0498924I		
u = -0.907481 + 0.395088I		
a = -0.975120 - 0.368474I	1.78380 + 1.10430I	0
b = -0.023349 - 0.616263I		
u = -0.907481 - 0.395088I		
a = -0.975120 + 0.368474I	1.78380 - 1.10430I	0
b = -0.023349 + 0.616263I		
u = -0.346743 + 0.922544I		
a = -1.94060 + 0.03413I	-2.22716 + 1.66256I	0
b = -2.05091 - 0.63156I		
u = -0.346743 - 0.922544I		
a = -1.94060 - 0.03413I	-2.22716 - 1.66256I	0
b = -2.05091 + 0.63156I		
u = -0.832406 + 0.580904I		
a = -0.816072 - 1.107820I	5.69571 + 6.18009I	0
b = 0.21102 - 1.46237I		
u = -0.832406 - 0.580904I		
a = -0.816072 + 1.107820I	5.69571 - 6.18009I	0
b = 0.21102 + 1.46237I		

u = 0.445854 + 0.912506I		
$u = 0.445654 \pm 0.9125001$		
a = -0.250178 + 0.647036I	-4.07840 + 1.74509I	0
b = 0.582212 - 0.638228I		
u = 0.445854 - 0.912506I		
a = -0.250178 - 0.647036I	-4.07840 - 1.74509I	0
b = 0.582212 + 0.638228I		
u = -0.550473 + 0.855625I		
a = 1.58869 + 0.29474I	3.11251 - 0.85633I	0
b = 1.47188 + 2.18116I		
u = -0.550473 - 0.855625I		
a = 1.58869 - 0.29474I	3.11251 + 0.85633I	0
b = 1.47188 - 2.18116I		
u = -0.550724 + 0.859621I		
a = -1.54212 - 1.93111I	3.09891 - 3.55549I	0
b = 0.40476 - 1.59933I		
u = -0.550724 - 0.859621I		
a = -1.54212 + 1.93111I	3.09891 + 3.55549I	0
b = 0.40476 + 1.59933I		
u = 0.539399 + 0.794949I		
a = 1.32069 - 1.68704I	6.50793 + 1.54821I	0
b = 1.17697 - 2.20251I		
u = 0.539399 - 0.794949I		
a = 1.32069 + 1.68704I	6.50793 - 1.54821I	0
b = 1.17697 + 2.20251I		
u = -0.100235 + 1.035900I		
a = 0.418216 + 0.328869I	-6.21715 - 0.49274I	0
b = -0.218597 - 1.065900I		
u = -0.100235 - 1.035900I		
a = 0.418216 - 0.328869I	-6.21715 + 0.49274I	0
b = -0.218597 + 1.065900I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.747476 + 0.729954I		
a = -1.42324 + 0.66409I	2.50612 - 1.04846I	0
b = -0.32911 + 2.22620I		
u = 0.747476 - 0.729954I		
a = -1.42324 - 0.66409I	2.50612 + 1.04846I	0
b = -0.32911 - 2.22620I		
u = -0.557270 + 0.773086I		
a = 2.28692 + 1.27034I	-0.232614 + 0.596001I	0
b = 1.14776 + 1.11615I		
u = -0.557270 - 0.773086I		
a = 2.28692 - 1.27034I	-0.232614 - 0.596001I	0
b = 1.14776 - 1.11615I		
u = 0.627455 + 0.716670I		
a = -2.33890 + 0.93316I	2.26284 - 6.40383I	0
b = -0.807083 + 1.028980I		
u = 0.627455 - 0.716670I		
a = -2.33890 - 0.93316I	2.26284 + 6.40383I	0
b = -0.807083 - 1.028980I		
u = 0.728434 + 0.611027I		
a = 1.24633 - 0.73003I	7.15615 + 1.84565I	0
b = 0.482467 - 1.183330I		
u = 0.728434 - 0.611027I		
a = 1.24633 + 0.73003I	7.15615 - 1.84565I	0
b = 0.482467 + 1.183330I		
u = 0.433567 + 0.963298I		
a = 1.84915 - 0.03503I	-3.99443 + 3.51059I	0
b = 1.84761 - 1.03237I		
u = 0.433567 - 0.963298I		
a = 1.84915 + 0.03503I	-3.99443 - 3.51059I	0
b = 1.84761 + 1.03237I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.931814 + 0.508864I		
a = 0.913621 - 1.050700I	-0.02127 - 9.16097I	0
b = -0.474141 - 1.264530I		
u = 0.931814 - 0.508864I		
a = 0.913621 + 1.050700I	-0.02127 + 9.16097I	0
b = -0.474141 + 1.264530I		
u = -0.986706 + 0.407027I		
a = 0.636220 + 0.399246I	4.94639 + 5.58121I	0
b = -0.065403 + 0.890735I		
u = -0.986706 - 0.407027I		
a = 0.636220 - 0.399246I	4.94639 - 5.58121I	0
b = -0.065403 - 0.890735I		
u = -0.654680 + 0.844531I		
a = -1.20925 + 0.95465I	0.61558 - 2.54624I	0
b = -1.196920 + 0.684125I		
u = -0.654680 - 0.844531I		
a = -1.20925 - 0.95465I	0.61558 + 2.54624I	0
b = -1.196920 - 0.684125I		
u = 0.731449 + 0.571623I		
a = -1.53574 + 1.48199I	-0.37741 - 5.71633I	0
b = 0.37856 + 1.76760I		
u = 0.731449 - 0.571623I		
a = -1.53574 - 1.48199I	-0.37741 + 5.71633I	0
b = 0.37856 - 1.76760I		
u = -0.516145 + 0.771156I		
a = 0.952646 + 0.811885I	-0.53621 + 2.32801I	0
b = -0.324158 - 0.327902I		
u = -0.516145 - 0.771156I		
a = 0.952646 - 0.811885I	-0.53621 - 2.32801I	0
b = -0.324158 + 0.327902I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.926464 + 0.046019I		
a = -0.367772 - 0.284571I	3.54138 + 2.83842I	0
b = -0.358099 - 0.222420I		
u = 0.926464 - 0.046019I		
a = -0.367772 + 0.284571I	3.54138 - 2.83842I	0
b = -0.358099 + 0.222420I		
u = 0.012896 + 1.073490I		
a = -0.737068 - 0.531654I	-0.32963 + 5.18055I	0
b = -0.405083 + 0.417015I		
u = 0.012896 - 1.073490I		
a = -0.737068 + 0.531654I	-0.32963 - 5.18055I	0
b = -0.405083 - 0.417015I		
u = -0.568689 + 0.915928I		
a = -0.82583 - 1.67184I	-0.69467 - 5.11406I	0
b = -0.74892 - 2.67127I		
u = -0.568689 - 0.915928I		
a = -0.82583 + 1.67184I	-0.69467 + 5.11406I	0
b = -0.74892 + 2.67127I		
u = 0.619160 + 0.882815I		
a = -0.462784 - 0.132943I	3.61626 + 6.02592I	0
b = -1.094350 + 0.862174I		
u = 0.619160 - 0.882815I		
a = -0.462784 + 0.132943I	3.61626 - 6.02592I	0
b = -1.094350 - 0.862174I		
u = -0.543038 + 0.933500I		
a = 0.257256 + 0.203403I	-1.09057 - 6.62662I	0
b = -0.434241 - 0.990715I		
u = -0.543038 - 0.933500I		
a = 0.257256 - 0.203403I	-1.09057 + 6.62662I	0
b = -0.434241 + 0.990715I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.707658 + 0.818823I		
a = 1.55822 + 0.50718I	3.25753 + 4.56073I	0
b = 0.78450 + 2.51756I		
u = -0.707658 - 0.818823I		
a = 1.55822 - 0.50718I	3.25753 - 4.56073I	0
b = 0.78450 - 2.51756I		
u = 0.757720 + 0.507649I		
a = -0.865308 + 0.335743I	2.79108 - 2.17795I	0
b = -0.357419 + 1.226330I		
u = 0.757720 - 0.507649I		
a = -0.865308 - 0.335743I	2.79108 + 2.17795I	0
b = -0.357419 - 1.226330I		
u = -0.765290 + 0.777732I		
a = 0.313788 - 0.283363I	1.24383 - 2.75337I	0
b = 0.764073 + 0.447255I		
u = -0.765290 - 0.777732I		
a = 0.313788 + 0.283363I	1.24383 + 2.75337I	0
b = 0.764073 - 0.447255I		
u = -0.642154 + 0.885034I		
a = -0.605908 - 0.137387I	0.97256 - 2.56913I	0
b = -0.1325530 - 0.0361140I		
u = -0.642154 - 0.885034I		
a = -0.605908 + 0.137387I	0.97256 + 2.56913I	0
b = -0.1325530 + 0.0361140I		
u = 0.595783 + 0.918335I		
a = -1.67611 + 1.20857I	6.04330 + 2.97947I	0
b = -1.09082 + 1.56018I		
u = 0.595783 - 0.918335I		
a = -1.67611 - 1.20857I	6.04330 - 2.97947I	0
b = -1.09082 - 1.56018I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.029805 + 1.094630I		
a = -0.088335 + 0.419086I	-5.69385 - 4.53725I	0
b = 0.622284 - 0.818090I		
u = 0.029805 - 1.094630I		
a = -0.088335 - 0.419086I	-5.69385 + 4.53725I	0
b = 0.622284 + 0.818090I		
u = 0.720237 + 0.833458I		
a = -0.323093 - 0.535044I	3.94229 - 0.87080I	0
b = -0.886760 + 0.556851I		
u = 0.720237 - 0.833458I		
a = -0.323093 + 0.535044I	3.94229 + 0.87080I	0
b = -0.886760 - 0.556851I		
u = 0.754844 + 0.804416I		
a = -0.315687 + 0.638489I	4.36353 - 0.84859I	0
b = -0.019468 + 1.338820I		
u = 0.754844 - 0.804416I		
a = -0.315687 - 0.638489I	4.36353 + 0.84859I	0
b = -0.019468 - 1.338820I		
u = -0.782981 + 0.783214I		
a = -1.076580 + 0.514922I	0.11595 - 4.26403I	0
b = -0.976505 - 0.481147I		
u = -0.782981 - 0.783214I		
a = -1.076580 - 0.514922I	0.11595 + 4.26403I	0
b = -0.976505 + 0.481147I		
u = -0.348230 + 0.819536I		
a = -1.22288 - 1.43888I	-2.13854 + 0.82162I	0
b = -1.72181 - 1.72458I		
u = -0.348230 - 0.819536I		
a = -1.22288 + 1.43888I	-2.13854 - 0.82162I	0
b = -1.72181 + 1.72458I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.972199 + 0.546222I		
a = -0.905079 - 1.011520I	2.2484 + 14.7363I	0
b = 0.59293 - 1.36816I		
u = -0.972199 - 0.546222I		
a = -0.905079 + 1.011520I	2.2484 - 14.7363I	0
b = 0.59293 + 1.36816I		
u = -0.926293 + 0.626932I		
a = 0.718099 + 0.500561I	5.25177 - 0.84623I	0
b = -0.068622 + 1.369810I		
u = -0.926293 - 0.626932I		
a = 0.718099 - 0.500561I	5.25177 + 0.84623I	0
b = -0.068622 - 1.369810I		
u = -0.644364 + 0.601015I		
a = 1.27594 + 1.84739I	-1.74748 + 0.50069I	0
b = -0.24025 + 1.69818I		
u = -0.644364 - 0.601015I		
a = 1.27594 - 1.84739I	-1.74748 - 0.50069I	0
b = -0.24025 - 1.69818I		
u = 1.005530 + 0.493859I		
a = 0.855579 - 0.487436I	3.95772 - 6.48113I	0
b = -0.221917 - 0.783760I		
u = 1.005530 - 0.493859I		
a = 0.855579 + 0.487436I	3.95772 + 6.48113I	0
b = -0.221917 + 0.783760I		
u = -0.680848 + 0.895509I		
a = -2.02301 - 1.39181I	3.01635 - 9.89154I	0
b = 0.08403 - 2.24040I		
u = -0.680848 - 0.895509I		
a = -2.02301 + 1.39181I	3.01635 + 9.89154I	0
b = 0.08403 + 2.24040I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.293861 + 1.092740I		
a = 0.275776 + 0.887136I	-5.37966 + 0.54573I	0
b = 1.057290 - 0.147130I		
u = 0.293861 - 1.092740I		
a = 0.275776 - 0.887136I	-5.37966 - 0.54573I	0
b = 1.057290 + 0.147130I		
u = 0.614405 + 0.950872I		
a = 0.69550 - 1.46015I	1.54033 + 11.29370I	0
b = 0.47805 - 2.61113I		
u = 0.614405 - 0.950872I		
a = 0.69550 + 1.46015I	1.54033 - 11.29370I	0
b = 0.47805 + 2.61113I		
u = -0.406869 + 0.762225I		
a = 0.517813 - 0.465383I	2.26522 - 2.73823I	0
b = 1.46685 + 0.25108I		
u = -0.406869 - 0.762225I		
a = 0.517813 + 0.465383I	2.26522 + 2.73823I	0
b = 1.46685 - 0.25108I		
u = 0.706734 + 0.897618I		
a = 0.565162 - 0.517095I	3.72711 + 6.31023I	0
b = -0.477838 - 0.337322I		
u = 0.706734 - 0.897618I		
a = 0.565162 + 0.517095I	3.72711 - 6.31023I	0
b = -0.477838 + 0.337322I		
u = -0.602287 + 0.971494I		
a = -1.48413 - 0.29604I	1.18792 - 4.46977I	0
b = -0.82135 - 1.38664I		
u = -0.602287 - 0.971494I		
a = -1.48413 + 0.29604I	1.18792 + 4.46977I	0
b = -0.82135 + 1.38664I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.440159 + 0.730665I		
a = -1.49175 + 0.11182I	2.20716 - 2.85779I	0
b = -1.44488 + 1.55039I		
u = 0.440159 - 0.730665I		
a = -1.49175 - 0.11182I	2.20716 + 2.85779I	0
b = -1.44488 - 1.55039I		
u = -0.066321 + 1.145210I		
a = -0.173277 + 1.057000I	-2.18553 - 1.55193I	0
b = -0.366641 + 0.617366I		
u = -0.066321 - 1.145210I		
a = -0.173277 - 1.057000I	-2.18553 + 1.55193I	0
b = -0.366641 - 0.617366I		
u = 0.571600 + 0.996567I		
a = 1.28701 - 1.25303I	1.09499 + 7.05040I	0
b = 0.21402 - 1.44820I		
u = 0.571600 - 0.996567I		
a = 1.28701 + 1.25303I	1.09499 - 7.05040I	0
b = 0.21402 + 1.44820I		
u = 0.182935 + 0.825630I		
a = 1.09557 - 1.16253I	-1.04922 - 6.70990I	0
b = 1.94970 - 1.15239I		
u = 0.182935 - 0.825630I		
a = 1.09557 + 1.16253I	-1.04922 + 6.70990I	0
b = 1.94970 + 1.15239I		
u = 0.734748 + 0.893581I		
a = 1.40870 - 0.16123I	4.09264 + 6.47599I	0
b = 0.685157 - 0.691738I		
u = 0.734748 - 0.893581I		
a = 1.40870 + 0.16123I	4.09264 - 6.47599I	0
b = 0.685157 + 0.691738I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.425821 + 0.724945I		
a = 1.61129 + 0.01796I	2.22001 - 0.03158I	0
b = 0.401842 + 1.054020I		
u = -0.425821 - 0.724945I		
a = 1.61129 - 0.01796I	2.22001 + 0.03158I	0
b = 0.401842 - 1.054020I		
u = -0.500021 + 1.055210I		
a = 1.46816 + 0.96083I	-3.47825 - 4.06656I	0
b = 1.60403 + 1.24379I		
u = -0.500021 - 1.055210I		
a = 1.46816 - 0.96083I	-3.47825 + 4.06656I	0
b = 1.60403 - 1.24379I		
u = 0.536497 + 1.041030I		
a = 1.80577 - 0.29656I	-3.77068 + 6.27330I	0
b = 1.50259 - 1.80856I		
u = 0.536497 - 1.041030I		
a = 1.80577 + 0.29656I	-3.77068 - 6.27330I	0
b = 1.50259 + 1.80856I		
u = -0.625977 + 1.008080I		
a = -2.27038 - 0.60756I	-2.94141 - 5.50909I	0
b = -2.14868 - 1.97553I		
u = -0.625977 - 1.008080I		
a = -2.27038 + 0.60756I	-2.94141 + 5.50909I	0
b = -2.14868 + 1.97553I		
u = -0.256991 + 1.163570I		
a = -0.366759 + 0.971787I	-3.93847 + 4.09185I	0
b = -1.229430 + 0.181151I		
u = -0.256991 - 1.163570I		
a = -0.366759 - 0.971787I	-3.93847 - 4.09185I	0
b = -1.229430 - 0.181151I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.754021 + 0.287387I		
a = 1.07649 - 1.18000I	-1.74947 - 5.45439I	0
b = 0.034614 - 0.751200I		
u = 0.754021 - 0.287387I		
a = 1.07649 + 1.18000I	-1.74947 + 5.45439I	0
b = 0.034614 + 0.751200I		
u = 0.693187 + 0.972666I		
a = 1.92085 - 1.00783I	1.76365 + 6.53880I	0
b = 0.55058 - 2.22183I		
u = 0.693187 - 0.972666I		
a = 1.92085 + 1.00783I	1.76365 - 6.53880I	0
b = 0.55058 + 2.22183I		
u = 0.581428 + 1.048690I		
a = -0.98044 + 1.14657I	5.82744 + 3.18112I	0
b = -0.80086 + 1.75516I		
u = 0.581428 - 1.048690I		
a = -0.98044 - 1.14657I	5.82744 - 3.18112I	0
b = -0.80086 - 1.75516I		
u = -0.564537 + 1.063780I		
a = -1.82335 - 0.39956I	-1.86512 - 11.45180I	0
b = -1.37094 - 2.09985I		
u = -0.564537 - 1.063780I		
a = -1.82335 + 0.39956I	-1.86512 + 11.45180I	0
b = -1.37094 + 2.09985I		
u = 0.174384 + 1.208110I		
a = 0.524593 + 0.137775I	-6.60576 - 2.51542I	0
b = 0.320091 + 1.012060I		
u = 0.174384 - 1.208110I		
a = 0.524593 - 0.137775I	-6.60576 + 2.51542I	0
b = 0.320091 - 1.012060I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.651991 + 1.036130I		
a = 2.17446 - 0.68534I	-1.74039 + 11.02230I	0
b = 1.90939 - 2.32363I		
u = 0.651991 - 1.036130I		
a = 2.17446 + 0.68534I	-1.74039 - 11.02230I	0
b = 1.90939 + 2.32363I		
u = -1.120770 + 0.511977I		
a = 0.218490 - 0.312685I	-0.07891 - 3.60178I	0
b = 0.508258 + 0.256981I		
u = -1.120770 - 0.511977I		
a = 0.218490 + 0.312685I	-0.07891 + 3.60178I	0
b = 0.508258 - 0.256981I		
u = 0.568498 + 1.094660I		
a = -1.57377 + 0.76408I	-4.01703 + 10.33240I	0
b = -1.70332 + 1.39301I		
u = 0.568498 - 1.094660I		
a = -1.57377 - 0.76408I	-4.01703 - 10.33240I	0
b = -1.70332 - 1.39301I		
u = -0.286438 + 1.203250I		
a = -0.463832 + 0.372551I	-4.85145 - 3.50894I	0
b = -0.391616 + 1.153900I		
u = -0.286438 - 1.203250I		
a = -0.463832 - 0.372551I	-4.85145 + 3.50894I	0
b = -0.391616 - 1.153900I		
u = 1.201630 + 0.366700I		
a = -0.227274 - 0.364806I	1.21805 + 8.43185I	0
b = -0.398790 + 0.251327I		
u = 1.201630 - 0.366700I		
a = -0.227274 + 0.364806I	1.21805 - 8.43185I	0
b = -0.398790 - 0.251327I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.163361 + 0.722347I		
a = 0.17044 + 1.68096I	-3.60569 + 0.91408I	0
b = 0.554933 - 0.439499I		
u = 0.163361 - 0.722347I		
a = 0.17044 - 1.68096I	-3.60569 - 0.91408I	0
b = 0.554933 + 0.439499I		
u = 0.887416 + 0.897545I		
a = 0.876365 + 0.557933I	0.484505 + 0.801877I	0
b = 1.185220 - 0.447285I		
u = 0.887416 - 0.897545I		
a = 0.876365 - 0.557933I	0.484505 - 0.801877I	0
b = 1.185220 + 0.447285I		
u = -0.679377 + 1.064960I		
a = 1.75357 + 0.61628I	4.22031 - 11.83660I	0
b = 1.44551 + 1.61863I		
u = -0.679377 - 1.064960I		
a = 1.75357 - 0.61628I	4.22031 + 11.83660I	0
b = 1.44551 - 1.61863I		
u = 0.614405 + 1.108390I		
a = 1.15925 - 0.81638I	0.95377 + 7.38140I	0
b = 0.64869 - 1.31796I		
u = 0.614405 - 1.108390I		
a = 1.15925 + 0.81638I	0.95377 - 7.38140I	0
b = 0.64869 + 1.31796I		
u = -0.048543 + 1.286710I		
a = 0.179118 - 0.247357I	-6.90319 - 6.80569I	0
b = -0.188381 + 0.663010I		
u = -0.048543 - 1.286710I		
a = 0.179118 + 0.247357I	-6.90319 + 6.80569I	0
b = -0.188381 - 0.663010I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.741752 + 1.062770I		
a = -0.638047 + 0.391667I	-0.73666 - 1.74573I	0
b = -1.080460 + 0.126837I		
u = -0.741752 - 1.062770I		
a = -0.638047 - 0.391667I	-0.73666 + 1.74573I	0
b = -1.080460 - 0.126837I		
u = -0.743358 + 1.068010I		
a = -1.40354 - 0.56029I	3.89033 - 5.27299I	0
b = -0.73904 - 1.54332I		
u = -0.743358 - 1.068010I		
a = -1.40354 + 0.56029I	3.89033 + 5.27299I	0
b = -0.73904 + 1.54332I		
u = -0.685622 + 0.062792I		
a = -1.26008 - 1.09590I	-0.922578 + 0.048130I	0
b = -0.266208 - 0.336374I		
u = -0.685622 - 0.062792I		
a = -1.26008 + 1.09590I	-0.922578 - 0.048130I	0
b = -0.266208 + 0.336374I		
u = 0.169187 + 0.659747I		
a = -1.92803 + 1.62798I	-1.92712 - 2.23063I	0
b = -0.028611 + 1.086390I		
u = 0.169187 - 0.659747I		
a = -1.92803 - 1.62798I	-1.92712 + 2.23063I	0
b = -0.028611 - 1.086390I		
u = 0.691667 + 1.124390I		
a = -1.68925 + 0.55794I	-1.9117 + 15.1089I	0
b = -1.61313 + 1.80059I		
u = 0.691667 - 1.124390I		
a = -1.68925 - 0.55794I	-1.9117 - 15.1089I	0
b = -1.61313 - 1.80059I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.113932 + 1.315720I		
a = -0.035196 - 0.297355I	-5.23347 + 12.43860I	0
b = 0.389075 + 0.552433I		
u = 0.113932 - 1.315720I		
a = -0.035196 + 0.297355I	-5.23347 - 12.43860I	0
b = 0.389075 - 0.552433I		
u = -0.663157 + 1.153060I		
a = 0.962363 + 0.608426I	-0.47354 - 6.87486I	0
b = 0.96558 + 1.50778I		
u = -0.663157 - 1.153060I		
a = 0.962363 - 0.608426I	-0.47354 + 6.87486I	0
b = 0.96558 - 1.50778I		
u = -0.468880 + 1.250480I		
a = 0.507304 + 0.343123I	-3.49916 - 2.93925I	0
b = 0.680719 + 0.729966I		
u = -0.468880 - 1.250480I		
a = 0.507304 - 0.343123I	-3.49916 + 2.93925I	0
b = 0.680719 - 0.729966I		
u = -0.719720 + 1.129520I		
a = 1.70723 + 0.52583I	0.4317 - 20.9045I	0
b = 1.57114 + 1.91853I		
u = -0.719720 - 1.129520I		
a = 1.70723 - 0.52583I	0.4317 + 20.9045I	0
b = 1.57114 - 1.91853I		
u = 0.838840 + 1.052250I		
a = 0.695315 + 0.500346I	0.00586 + 5.83011I	0
b = 1.317710 - 0.059726I		
u = 0.838840 - 1.052250I		
a = 0.695315 - 0.500346I	0.00586 - 5.83011I	0
b = 1.317710 + 0.059726I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.679859 + 1.168940I		
a = -1.166050 - 0.597194I	2.63445 - 11.59730I	0
b = -0.88191 - 1.39736I		
u = -0.679859 - 1.168940I		
a = -1.166050 + 0.597194I	2.63445 + 11.59730I	0
b = -0.88191 + 1.39736I		
u = 0.715483 + 1.150510I		
a = -1.074610 + 0.526236I	1.93145 + 12.69900I	0
b = -1.05007 + 1.58204I		
u = 0.715483 - 1.150510I		
a = -1.074610 - 0.526236I	1.93145 - 12.69900I	0
b = -1.05007 - 1.58204I		
u = 0.356069 + 1.313130I		
a = -0.441378 + 0.312510I	-3.00371 - 2.12483I	0
b = -0.670233 + 0.413618I		
u = 0.356069 - 1.313130I		
a = -0.441378 - 0.312510I	-3.00371 + 2.12483I	0
b = -0.670233 - 0.413618I		
u = -0.461444 + 0.430420I		
a = 0.872894 - 0.243124I	2.31438 - 0.06014I	0
b = -0.092223 + 0.808916I		
u = -0.461444 - 0.430420I		
a = 0.872894 + 0.243124I	2.31438 + 0.06014I	0
b = -0.092223 - 0.808916I		
u = -0.245412 + 0.547747I		
a = 3.24858 + 1.25026I	0.09375 + 7.04987I	0 7.90849I
b = 0.098916 + 1.285710I		
u = -0.245412 - 0.547747I		
a = 3.24858 - 1.25026I	0.09375 - 7.04987I	0. + 7.90849I
b = 0.098916 - 1.285710I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.536888 + 0.260481I		
a = 2.04301 - 0.26542I	0.06937 + 6.93748I	4.00000 - 6.68296I
b = -0.482652 + 1.129620I		
u = -0.536888 - 0.260481I		
a = 2.04301 + 0.26542I	0.06937 - 6.93748I	4.00000 + 6.68296I
b = -0.482652 - 1.129620I		
u = 0.06137 + 1.44383I		
a = -0.077666 + 0.257321I	-2.13345 + 1.87687I	0
b = -0.156272 - 0.130436I		
u = 0.06137 - 1.44383I		
a = -0.077666 - 0.257321I	-2.13345 - 1.87687I	0
b = -0.156272 + 0.130436I		
u = 0.450150 + 0.260377I		
a = -1.99999 + 0.36343I	-1.94064 - 2.06419I	-0.46983 + 2.36152I
b = 0.508367 + 0.934477I		
u = 0.450150 - 0.260377I		
a = -1.99999 - 0.36343I	-1.94064 + 2.06419I	-0.46983 - 2.36152I
b = 0.508367 - 0.934477I		
u = -0.305881 + 0.404271I		
a = -1.22384 + 2.52004I	-0.86266 - 4.29940I	4.39227 + 7.53740I
b = -0.976394 + 0.446525I		
u = -0.305881 - 0.404271I		
a = -1.22384 - 2.52004I	-0.86266 + 4.29940I	4.39227 - 7.53740I
b = -0.976394 - 0.446525I		
u = -0.464626		
a = -0.745919	0.878667	11.1150
b = -0.383953		
u = -0.20168 + 1.53495I		
a = 0.035560 + 0.170255I	-3.99142 - 2.96540I	0
b = 0.055628 + 0.623909I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.20168 - 1.53495I		
a = 0.035560 - 0.170255I	-3.99142 + 2.96540I	0
b = 0.055628 - 0.623909I		
u = 0.318767 + 0.317698I		
a = -0.52218 + 2.34710I	-2.45495 - 0.21803I	0.535482 + 0.281744I
b = 0.728595 + 0.621611I		
u = 0.318767 - 0.317698I		
a = -0.52218 - 2.34710I	-2.45495 + 0.21803I	0.535482 - 0.281744I
b = 0.728595 - 0.621611I		

II.
$$I_2^u = \langle 2.48 \times 10^7 u^{41} - 1.91 \times 10^7 u^{40} + \dots + 3.94 \times 10^6 b - 1.94 \times 10^7, \ 1.08 \times 10^7 u^{41} - 2.34 \times 10^7 u^{40} + \dots + 3.94 \times 10^6 a + 1.83 \times 10^6, \ u^{42} + 11 u^{40} + \dots - u + 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_2 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_3 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_9 &= \begin{pmatrix} -2.75025u^{41} + 5.92506u^{40} + \dots + 4.56550u - 0.464939 \\ -6.29335u^{41} + 4.84326u^{40} + \dots - 8.67531u + 4.92506 \end{pmatrix} \\ a_4 &= \begin{pmatrix} 10.8206u^{41} + 9.12531u^{40} + \dots - 3.47298u + 9.32568 \\ 8.50296u^{41} + 3.54988u^{40} + \dots - 0.304710u + 9.12531 \end{pmatrix} \\ a_7 &= \begin{pmatrix} u \\ u \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 0.0728852u^{41} + 4.18160u^{40} + \dots + 2.10420u - 1.54674 \\ -3.47021u^{41} + 3.09980u^{40} + \dots - 11.1366u + 3.84326 \end{pmatrix} \\ a_1 &= \begin{pmatrix} u^2 + 1 \\ -u^4 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0.0728852u^{41} + 4.18160u^{40} + \dots + 3.10420u - 1.54674 \\ -6.92724u^{41} + 6.63540u^{40} + \dots - 14.2453u + 7.02486 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -3.45329u^{41} - 5.81424u^{40} + \dots + 12.8848u - 8.71909 \\ 2.47177u^{41} + 1.47911u^{40} + \dots + 8.66963u + 1.03117 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} 1.55056u^{41} + 0.591649u^{40} + \dots + 10.4025u + 3.51094 \\ 0.666025u^{41} + 1.91470u^{40} + \dots - 1.94694u + 3.34665 \end{pmatrix} \\ a_5 &= \begin{pmatrix} 2.59689u^{41} - 3.27679u^{40} + \dots + 7.61969u + 0.118711 \\ 4.28962u^{41} - 0.428211u^{40} + \dots - 0.566875u + 1.18748 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{65427262}{3944339}u^{41} + \frac{4960727}{3944339}u^{40} + \dots - \frac{17347683}{563477}u - \frac{25550128}{3944339}u^{40} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{42} - 22u^{41} + \dots - 15u + 1$
c_2	$u^{42} + 11u^{40} + \dots - u + 1$
c_3	$u^{42} - 10u^{40} + \dots + 4u + 1$
c_4	$u^{42} - 2u^{40} + \dots - u + 1$
<i>C</i> 5	$u^{42} - 13u^{40} + \dots - 4u + 1$
c_6	$u^{42} + 11u^{40} + \dots + u + 1$
c_7	$u^{42} + u^{41} + \dots + 10u + 1$
<i>c</i> ₈	$u^{42} - 2u^{40} + \dots + 5u + 1$
<i>c</i> ₉	$u^{42} + 14u^{41} + \dots + 100u + 5$
c_{10}	$u^{42} - 13u^{40} + \dots + 4u + 1$
c_{11}	$u^{42} - 26u^{41} + \dots - 16u + 1$
c_{12}	$u^{42} - 3u^{41} + \dots - 4u + 1$
·	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{42} + 2y^{41} + \dots + 27y + 1$
c_{2}, c_{6}	$y^{42} + 22y^{41} + \dots + 15y + 1$
<i>c</i> ₃	$y^{42} - 20y^{41} + \dots + 8y + 1$
c_4	$y^{42} - 4y^{41} + \dots - 5y + 1$
c_5,c_{10}	$y^{42} - 26y^{41} + \dots - 16y + 1$
	$y^{42} + 5y^{41} + \dots - 34y + 1$
<i>C</i> ₈	$y^{42} - 4y^{41} + \dots + y + 1$
<i>c</i> ₉	$y^{42} + 10y^{41} + \dots + 360y + 25$
c_{11}	$y^{42} - 6y^{41} + \dots + 84y + 1$
c_{12}	$y^{42} - 9y^{41} + \dots + 2y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.670458 + 0.713555I		
a = 0.973164 + 0.142027I	3.53244 + 3.09675I	8.80493 - 3.18234I
b = 0.79476 + 1.70582I		
u = -0.670458 - 0.713555I		
a = 0.973164 - 0.142027I	3.53244 - 3.09675I	8.80493 + 3.18234I
b = 0.79476 - 1.70582I		
u = -0.765369 + 0.681061I		
a = -0.290687 + 0.798138I	-0.24970 - 2.93248I	0.78372 + 3.20918I
b = -0.249516 + 0.168749I		
u = -0.765369 - 0.681061I		
a = -0.290687 - 0.798138I	-0.24970 + 2.93248I	0.78372 - 3.20918I
b = -0.249516 - 0.168749I		
u = -0.181479 + 1.016510I		
a = -0.397246 + 0.442301I	-4.84099 - 1.24138I	-1.82984 + 5.05876I
b = -0.807929 - 0.774630I		
u = -0.181479 - 1.016510I		
a = -0.397246 - 0.442301I	-4.84099 + 1.24138I	-1.82984 - 5.05876I
b = -0.807929 + 0.774630I		
u = 0.659509 + 0.654424I		
a = -1.62696 + 0.05983I	3.55715 - 0.72991I	11.18768 + 1.45522I
b = -0.83118 + 1.89065I		
u = 0.659509 - 0.654424I		
a = -1.62696 - 0.05983I	3.55715 + 0.72991I	11.18768 - 1.45522I
b = -0.83118 - 1.89065I		
u = 0.782153 + 0.467085I		
a = 0.362792 + 0.743012I	1.33161 + 7.62899I	5.62238 - 7.51224I
b = -0.113135 - 0.357342I		
u = 0.782153 - 0.467085I		
a = 0.362792 - 0.743012I	1.33161 - 7.62899I	5.62238 + 7.51224I
b = -0.113135 + 0.357342I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.531701 + 0.731373I		
a = -1.45615 + 1.62975I	6.53602 + 1.27696I	7.1168 + 13.7607I
b = -1.14820 + 1.82542I		
u = 0.531701 - 0.731373I		
a = -1.45615 - 1.62975I	6.53602 - 1.27696I	7.1168 - 13.7607I
b = -1.14820 - 1.82542I		
u = -0.512783 + 0.689247I		
a = 2.16896 + 1.74741I	-0.88350 + 1.12586I	3.95962 - 4.39017I
b = 0.85634 + 1.82804I		
u = -0.512783 - 0.689247I		
a = 2.16896 - 1.74741I	-0.88350 - 1.12586I	3.95962 + 4.39017I
b = 0.85634 - 1.82804I		
u = 0.105492 + 1.142710I		
a = 0.615136 + 0.421279I	-3.47572 - 3.47512I	0.89011 + 1.91027I
b = 1.055090 - 0.420890I		
u = 0.105492 - 1.142710I		
a = 0.615136 - 0.421279I	-3.47572 + 3.47512I	0.89011 - 1.91027I
b = 1.055090 + 0.420890I		
u = -0.760232 + 0.863900I		
a = -0.780387 + 0.639712I	-0.24497 - 2.81726I	0. + 3.73854I
b = -0.908836 + 0.017677I		
u = -0.760232 - 0.863900I		
a = -0.780387 - 0.639712I	-0.24497 + 2.81726I	0 3.73854I
b = -0.908836 - 0.017677I		
u = 0.551182 + 1.012470I		
a = 1.14574 - 1.32473I	5.57913 + 3.09875I	-11.19527 - 3.15161I
b = 1.03048 - 1.82842I		
u = 0.551182 - 1.012470I		
a = 1.14574 + 1.32473I	5.57913 - 3.09875I	-11.19527 + 3.15161I
b = 1.03048 + 1.82842I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.572223 + 1.015750I		
a = -1.67614 - 1.08196I	-2.01487 - 5.56271I	2.72621 + 6.98267I
b = -1.41264 - 2.15996I		
u = -0.572223 - 1.015750I		
a = -1.67614 + 1.08196I	-2.01487 + 5.56271I	2.72621 - 6.98267I
b = -1.41264 + 2.15996I		
u = -0.667591 + 0.978214I		
a = -1.50276 - 0.95929I	2.71125 - 8.31111I	5.35759 + 9.33828I
b = -0.24454 - 1.45204I		
u = -0.667591 - 0.978214I		
a = -1.50276 + 0.95929I	2.71125 + 8.31111I	5.35759 - 9.33828I
b = -0.24454 + 1.45204I		
u = 0.523883 + 0.619357I		
a = -2.69588 + 1.20336I	0.89552 - 6.58153I	6.70168 + 5.42352I
b = -0.67112 + 1.81429I		
u = 0.523883 - 0.619357I		
a = -2.69588 - 1.20336I	0.89552 + 6.58153I	6.70168 - 5.42352I
b = -0.67112 - 1.81429I		
u = -0.145604 + 0.788646I		
a = -0.25633 + 1.90984I	-3.94604 - 0.19498I	-4.57927 - 1.41449I
b = -0.460282 - 0.035005I		
u = -0.145604 - 0.788646I		
a = -0.25633 - 1.90984I	-3.94604 + 0.19498I	-4.57927 + 1.41449I
b = -0.460282 + 0.035005I		
u = 0.590563 + 1.047720I		
a = 1.64541 - 1.05105I	-0.53960 + 11.18960I	4.00000 - 10.67377I
b = 1.12474 - 2.38885I		
u = 0.590563 - 1.047720I		
a = 1.64541 + 1.05105I	-0.53960 - 11.18960I	4.00000 + 10.67377I
b = 1.12474 + 2.38885I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.663997 + 1.017430I		
a = 1.57665 - 1.07372I	2.43664 + 5.93494I	7.76279 - 4.79880I
b = 0.29062 - 2.00669I		
u = 0.663997 - 1.017430I		
a = 1.57665 + 1.07372I	2.43664 - 5.93494I	7.76279 + 4.79880I
b = 0.29062 + 2.00669I		
u = -0.036945 + 0.778472I		
a = 1.86422 + 1.34579I	-1.93192 + 3.63918I	-2.78083 - 4.14568I
b = 1.082220 - 0.107037I		
u = -0.036945 - 0.778472I		
a = 1.86422 - 1.34579I	-1.93192 - 3.63918I	-2.78083 + 4.14568I
b = 1.082220 + 0.107037I		
u = 0.546682 + 0.425527I		
a = 0.751887 - 0.503336I	2.96144 + 1.74006I	6.97083 + 0.25058I
b = -0.960506 - 0.354893I		
u = 0.546682 - 0.425527I		
a = 0.751887 + 0.503336I	2.96144 - 1.74006I	6.97083 - 0.25058I
b = -0.960506 + 0.354893I		
u = 0.015468 + 1.309640I		
a = 0.129270 + 0.659065I	-1.63389 + 1.59592I	13.25426 + 0.I
b = 0.267455 + 0.537072I		
u = 0.015468 - 1.309640I		
a = 0.129270 - 0.659065I	-1.63389 - 1.59592I	13.25426 + 0.I
b = 0.267455 - 0.537072I		
u = -0.459986 + 0.489536I		
a = 0.410194 - 1.224130I	2.48373 - 4.43340I	6.59955 + 7.64683I
b = 1.289730 - 0.084097I		
u = -0.459986 - 0.489536I		
a = 0.410194 + 1.224130I	2.48373 + 4.43340I	6.59955 - 7.64683I
b = 1.289730 + 0.084097I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.19796 + 1.53436I		
a = 0.0391256 - 0.1159400I	-4.03906 - 2.89466I	0
b = 0.016441 - 0.575361I		
u = -0.19796 - 1.53436I		
a = 0.0391256 + 0.1159400I	-4.03906 + 2.89466I	0
b = 0.016441 + 0.575361I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{42} - 22u^{41} + \dots - 15u + 1)$ $\cdot (u^{183} + 77u^{182} + \dots - 46277120u - 1283689)$
c_2	$(u^{42} + 11u^{40} + \dots - u + 1)(u^{183} - u^{182} + \dots + 4256u - 1133)$
<i>C</i> 3	$(u^{42} - 10u^{40} + \dots + 4u + 1)(u^{183} + u^{182} + \dots + 31u - 3)$
C ₄	$(u^{42} - 2u^{40} + \dots - u + 1)(u^{183} + 3u^{182} + \dots + 555350u - 53533)$
<i>C</i> ₅	$(u^{42} - 13u^{40} + \dots - 4u + 1)(u^{183} + u^{182} + \dots - 173u - 59)$
<i>C</i> ₆	$(u^{42} + 11u^{40} + \dots + u + 1)(u^{183} - u^{182} + \dots + 4256u - 1133)$
C ₇	$(u^{42} + u^{41} + \dots + 10u + 1)(u^{183} - 2u^{182} + \dots + 334697u - 27379)$
<i>C</i> ₈	$(u^{42} - 2u^{40} + \dots + 5u + 1)(u^{183} - 5u^{182} + \dots - 6926u - 485)$
<i>C</i> 9	$(u^{42} + 14u^{41} + \dots + 100u + 5)$ $\cdot (u^{183} + 7u^{182} + \dots + 1157925u - 194803)$
c_{10}	$(u^{42} - 13u^{40} + \dots + 4u + 1)(u^{183} + u^{182} + \dots - 173u - 59)$
c_{11}	$(u^{42} - 26u^{41} + \dots - 16u + 1)(u^{183} - 87u^{182} + \dots + 82911u - 3481)$
c_{12}	$(u^{42} - 3u^{41} + \dots - 4u + 1)(u^{183} + 16u^{182} + \dots - 199u - 7)$ 34

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{42} + 2y^{41} + \dots + 27y + 1)$ $\cdot (y^{183} + 65y^{182} + \dots - 180776219221564y - 1647857448721)$
c_2, c_6	$(y^{42} + 22y^{41} + \dots + 15y + 1)$ $\cdot (y^{183} + 77y^{182} + \dots - 46277120y - 1283689)$
c_3	$(y^{42} - 20y^{41} + \dots + 8y + 1)(y^{183} - 17y^{182} + \dots + 67y - 9)$
<i>c</i> ₄	$(y^{42} - 4y^{41} + \dots - 5y + 1)$ $\cdot (y^{183} + 11y^{182} + \dots - 122436449664y - 2865782089)$
c_5,c_{10}	$(y^{42} - 26y^{41} + \dots - 16y + 1)(y^{183} - 87y^{182} + \dots + 82911y - 3481)$
c_7	$(y^{42} + 5y^{41} + \dots - 34y + 1)$ $\cdot (y^{183} - 28y^{182} + \dots - 2771494231y - 749609641)$
c_8	$(y^{42} - 4y^{41} + \dots + y + 1)(y^{183} - 29y^{182} + \dots - 4.01327 \times 10^7 y - 235225)$
c_9	$(y^{42} + 10y^{41} + \dots + 360y + 25)$ $\cdot (y^{183} - 11y^{182} + \dots - 18463850066073y - 37948208809)$
c_{11}	$(y^{42} - 6y^{41} + \dots + 84y + 1)$ $\cdot (y^{183} + 33y^{182} + \dots + 364826579y - 12117361)$
c_{12}	$(y^{42} - 9y^{41} + \dots + 2y + 1)(y^{183} + 10y^{182} + \dots - 2819y - 49)$