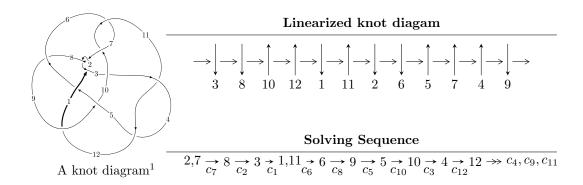
$12a_{0778} (K12a_{0778})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 2.83192 \times 10^{557} u^{177} - 6.25443 \times 10^{556} u^{176} + \dots + 5.07791 \times 10^{558} b - 2.49182 \times 10^{560}, \\ &1.66942 \times 10^{562} u^{177} + 4.31753 \times 10^{560} u^{176} + \dots + 5.53848 \times 10^{562} a - 9.73150 \times 10^{564}, \\ &u^{178} - u^{177} + \dots - 3043 u + 839 \rangle \\ I_2^u &= \langle -8317077395 u^{45} - 6692694951 u^{44} + \dots + 1782959561 b - 14602686346, \\ &- 39738567974 u^{45} - 7168731592677 u^{44} + \dots + 622252886789 a + 2806256180785, \\ &u^{46} - 13 u^{44} + \dots + 3 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 224 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.
$$I_1^u = \langle 2.83 \times 10^{557} u^{177} - 6.25 \times 10^{556} u^{176} + \dots + 5.08 \times 10^{558} b - 2.49 \times 10^{560}, \ 1.67 \times 10^{562} u^{177} + 4.32 \times 10^{560} u^{176} + \dots + 5.54 \times 10^{562} a - 9.73 \times 10^{564}, \ u^{178} - u^{177} + \dots - 3043 u + 839 \rangle$$

(i) Arc colorings

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

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 0.301422u^{177} - 0.00779552u^{176} + \cdots - 467.541u + 175.707 \\ -0.0557695u^{177} + 0.0123169u^{176} + \cdots - 99.9826u + 49.0718 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.148718u^{177} + 0.164496u^{176} + \cdots + 198.358u - 54.6244 \\ -0.0620492u^{177} + 0.137246u^{176} + \cdots + 315.427u - 72.3130 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.343320u^{177} - 0.0126359u^{176} + \cdots - 811.691u + 297.191 \\ 0.0116331u^{177} - 0.0316594u^{176} + \cdots - 105.316u + 43.9533 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.117881u^{177} + 0.0434351u^{176} + \cdots + 15.4920u - 18.5703 \\ -0.0604457u^{177} + 0.0849581u^{176} + \cdots + 172.096u - 31.1648 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.245653u^{177} - 0.0201125u^{176} + \cdots - 367.558u + 126.635 \\ -0.0557695u^{177} + 0.0123169u^{176} + \cdots - 99.9826u + 49.0718 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0646156u^{177} - 0.244183u^{176} + \cdots + 260.057u - 165.861 \\ 0.0305702u^{177} - 0.0849381u^{176} + \cdots - 118.034u + 3.73802 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.120327u^{177} + 0.117052u^{176} + \cdots + 179.284u - 10.9664 \\ -0.113303u^{177} + 0.0278594u^{176} + \cdots + 179.284u - 10.9664 \\ -0.113303u^{177} + 0.0278594u^{176} + \cdots + 179.284u - 10.9664 \\ -0.113303u^{177} + 0.0278594u^{176} + \cdots - 245.370u + 99.0238 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.0572173u^{177} + 0.0141848u^{176} + \cdots 447.259u + 188.065$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{178} + 85u^{177} + \dots + 12261791u + 703921$
c_2, c_7	$u^{178} + u^{177} + \dots + 3043u + 839$
c_3	$u^{178} + u^{177} + \dots + 354196u + 339257$
c_4, c_{11}	$u^{178} + u^{177} + \dots - 563010u + 122123$
<i>C</i> ₅	$u^{178} + 5u^{177} + \dots + 300u + 179$
c_6, c_{10}	$u^{178} + 46u^{176} + \dots + 147913u + 12577$
c_8	$u^{178} - 8u^{177} + \dots - 193237632u + 17520832$
<i>c</i> ₉	$u^{178} - 3u^{177} + \dots - 316u + 83$
c_{12}	$u^{178} + 6u^{177} + \dots - 2444512u + 375469$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{178} + 31y^{177} + \dots - 583680219959y + 495504774241$
c_2, c_7	$y^{178} - 85y^{177} + \dots - 12261791y + 703921$
c_3	$y^{178} - 5y^{177} + \dots + 10288606046288y + 115095312049$
c_4, c_{11}	$y^{178} - 133y^{177} + \dots - 108608624088y + 14914027129$
c_5	$y^{178} - 19y^{177} + \dots + 637456y + 32041$
c_6, c_{10}	$y^{178} + 92y^{177} + \dots + 9058774801y + 158180929$
c_8	$y^{178} + 8y^{177} + \dots + 24453354177839104y + 306979553972224$
<i>c</i> ₉	$y^{178} - 35y^{177} + \dots - 612962y + 6889$
c_{12}	$y^{178} + 40y^{177} + \dots + 11873515289866y + 140976969961$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.002900 + 0.076332I		
a = 0.410643 - 0.082087I	-2.11950 - 0.08413I	0
b = 0.579253 + 0.123214I		
u = 1.002900 - 0.076332I		
a = 0.410643 + 0.082087I	-2.11950 + 0.08413I	0
b = 0.579253 - 0.123214I		
u = -0.226401 + 0.966400I		
a = 0.409044 + 0.569674I	-0.53209 - 2.15422I	0
b = -0.439674 + 0.950963I		
u = -0.226401 - 0.966400I		
a = 0.409044 - 0.569674I	-0.53209 + 2.15422I	0
b = -0.439674 - 0.950963I		
u = -0.335859 + 0.954059I		
a = -0.159374 - 0.553582I	-1.52044 - 8.62842I	0
b = 0.536749 - 1.176660I		
u = -0.335859 - 0.954059I		
a = -0.159374 + 0.553582I	-1.52044 + 8.62842I	0
b = 0.536749 + 1.176660I		
u = 0.919829 + 0.360834I		
a = 3.14733 + 2.88557I	1.56137 + 3.49668I	0
b = -0.080521 + 0.756472I		
u = 0.919829 - 0.360834I		
a = 3.14733 - 2.88557I	1.56137 - 3.49668I	0
b = -0.080521 - 0.756472I		
u = 0.374555 + 0.943169I		
a = -0.356602 + 0.476093I	3.2314 + 14.8369I	0
b = 0.677133 + 1.219760I		
u = 0.374555 - 0.943169I		
a = -0.356602 - 0.476093I	3.2314 - 14.8369I	0
b = 0.677133 - 1.219760I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.733219 + 0.657144I		
a = 0.290021 - 0.279870I	2.84448 + 0.62683I	0
b = -0.720709 - 0.133801I		
u = -0.733219 - 0.657144I		
a = 0.290021 + 0.279870I	2.84448 - 0.62683I	0
b = -0.720709 + 0.133801I		
u = 0.879338 + 0.433465I		
a = 0.674827 - 0.733572I	2.79221 + 0.32953I	0
b = -0.627845 - 0.975355I		
u = 0.879338 - 0.433465I		
a = 0.674827 + 0.733572I	2.79221 - 0.32953I	0
b = -0.627845 + 0.975355I		
u = 0.925580 + 0.310759I		
a = -1.67998 - 1.78962I	1.66529 - 6.27208I	0
b = 0.121356 + 0.308713I		
u = 0.925580 - 0.310759I		
a = -1.67998 + 1.78962I	1.66529 + 6.27208I	0
b = 0.121356 - 0.308713I		
u = -0.997517 + 0.261432I		
a = -0.648349 + 0.344258I	-3.41325 + 3.33568I	0
b = 0.289800 - 0.362909I		
u = -0.997517 - 0.261432I		
a = -0.648349 - 0.344258I	-3.41325 - 3.33568I	0
b = 0.289800 + 0.362909I		
u = -0.503693 + 0.823683I		
a = -0.0536241 - 0.0652593I	4.22856 - 6.39408I	0
b = 0.694699 - 1.139340I		
u = -0.503693 - 0.823683I		
a = -0.0536241 + 0.0652593I	4.22856 + 6.39408I	0
b = 0.694699 + 1.139340I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.863451 + 0.430814I		
a = -1.35124 - 3.01221I	2.84586 - 3.91339I	0
b = 0.421417 - 1.034660I		
u = 0.863451 - 0.430814I		
a = -1.35124 + 3.01221I	2.84586 + 3.91339I	0
b = 0.421417 + 1.034660I		
u = -0.932656 + 0.220528I		
a = -0.026254 - 0.622186I	-3.02952 - 2.41652I	0
b = -0.752555 + 0.549421I		
u = -0.932656 - 0.220528I		
a = -0.026254 + 0.622186I	-3.02952 + 2.41652I	0
b = -0.752555 - 0.549421I		
u = -0.961071 + 0.420548I		
a = 0.69112 + 1.38885I	3.29043 + 3.04918I	0
b = 1.43328 + 0.01277I		
u = -0.961071 - 0.420548I		
a = 0.69112 - 1.38885I	3.29043 - 3.04918I	0
b = 1.43328 - 0.01277I		
u = -0.791467 + 0.690929I		
a = 0.642459 + 0.639450I	4.26263 + 0.47129I	0
b = 0.357063 - 0.611371I		
u = -0.791467 - 0.690929I		
a = 0.642459 - 0.639450I	4.26263 - 0.47129I	0
b = 0.357063 + 0.611371I		
u = -0.860791 + 0.400076I		
a = -0.033598 - 1.094830I	3.71483 + 0.26000I	0
b = -1.348070 - 0.150928I		
u = -0.860791 - 0.400076I		
a = -0.033598 + 1.094830I	3.71483 - 0.26000I	0
b = -1.348070 + 0.150928I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.455344 + 0.832194I		
a = 0.102653 + 0.514193I	0.802586 - 0.654897I	0
b = 0.418681 + 0.944244I		
u = 0.455344 - 0.832194I		
a = 0.102653 - 0.514193I	0.802586 + 0.654897I	0
b = 0.418681 - 0.944244I		
u = 1.000000 + 0.351874I		
a = 0.74966 + 2.66662I	-3.13518 + 3.47455I	0
b = 0.33424 + 1.39910I		
u = 1.000000 - 0.351874I		
a = 0.74966 - 2.66662I	-3.13518 - 3.47455I	0
b = 0.33424 - 1.39910I		
u = -0.537889 + 0.769907I		
a = -0.343867 - 0.772663I	6.38925 + 5.50798I	0
b = 0.639669 - 0.652252I		
u = -0.537889 - 0.769907I		
a = -0.343867 + 0.772663I	6.38925 - 5.50798I	0
b = 0.639669 + 0.652252I		
u = -0.534702 + 0.760598I		
a = 0.937376 - 0.313056I	2.93093 - 1.13494I	0
b = -0.614535 - 0.327178I		
u = -0.534702 - 0.760598I		
a = 0.937376 + 0.313056I	2.93093 + 1.13494I	0
b = -0.614535 + 0.327178I		
u = -0.643610 + 0.668376I		
a = 1.19281 + 1.30833I	4.34906 - 3.89150I	0
b = -0.391945 + 0.888057I		
u = -0.643610 - 0.668376I		
a = 1.19281 - 1.30833I	4.34906 + 3.89150I	0
b = -0.391945 - 0.888057I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.988809 + 0.419771I		
a = -0.88141 + 1.67174I	-5.51999 + 2.80665I	0
b = -0.40629 + 1.54254I		
u = -0.988809 - 0.419771I		
a = -0.88141 - 1.67174I	-5.51999 - 2.80665I	0
b = -0.40629 - 1.54254I		
u = -1.030990 + 0.316344I		
a = 0.19031 - 2.38027I	-6.88304 + 0.74630I	0
b = 0.124233 - 1.320040I		
u = -1.030990 - 0.316344I		
a = 0.19031 + 2.38027I	-6.88304 - 0.74630I	0
b = 0.124233 + 1.320040I		
u = 0.491681 + 0.960663I		
a = 0.515797 - 0.415645I	0.75536 + 5.62661I	0
b = -0.520340 - 1.091510I		
u = 0.491681 - 0.960663I		
a = 0.515797 + 0.415645I	0.75536 - 5.62661I	0
b = -0.520340 + 1.091510I		
u = -1.046150 + 0.296906I		
a = 1.38627 - 2.34666I	-3.92608 - 1.74841I	0
b = 0.089296 - 1.179670I		
u = -1.046150 - 0.296906I		
a = 1.38627 + 2.34666I	-3.92608 + 1.74841I	0
b = 0.089296 + 1.179670I		
u = -0.429853 + 0.793813I		
a = -0.614416 + 0.550696I	5.80834 - 8.54207I	0
b = 1.082700 + 0.414154I		
u = -0.429853 - 0.793813I		
a = -0.614416 - 0.550696I	5.80834 + 8.54207I	0
b = 1.082700 - 0.414154I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.918420 + 0.608142I		
a = 0.530491 - 0.020921I	3.86855 + 4.56902I	0
b = -0.607930 - 0.613409I		
u = -0.918420 - 0.608142I		
a = 0.530491 + 0.020921I	3.86855 - 4.56902I	0
b = -0.607930 + 0.613409I		
u = 1.100700 + 0.116686I		
a = -0.427374 + 1.031190I	0.64153 + 6.43482I	0
b = -0.906577 + 0.038589I		
u = 1.100700 - 0.116686I		
a = -0.427374 - 1.031190I	0.64153 - 6.43482I	0
b = -0.906577 - 0.038589I		
u = 0.745874 + 0.823185I		
a = 0.826267 - 0.189595I	4.59093 + 0.58252I	0
b = -0.381633 + 0.815684I		
u = 0.745874 - 0.823185I		
a = 0.826267 + 0.189595I	4.59093 - 0.58252I	0
b = -0.381633 - 0.815684I		
u = -0.532615 + 0.978017I		
a = -0.015242 + 0.382866I	4.00579 + 2.21397I	0
b = 0.319357 + 0.756103I		
u = -0.532615 - 0.978017I		
a = -0.015242 - 0.382866I	4.00579 - 2.21397I	0
b = 0.319357 - 0.756103I		
u = 0.498374 + 0.728878I		
a = -0.358226 - 0.756736I	1.36584 + 3.53840I	0
b = 0.875651 - 0.219517I		
u = 0.498374 - 0.728878I		
a = -0.358226 + 0.756736I	1.36584 - 3.53840I	0
b = 0.875651 + 0.219517I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.976578 + 0.555103I		
a = -0.573430 + 0.514163I	4.99134 - 4.59016I	0
b = -1.31301 - 0.55907I		
u = 0.976578 - 0.555103I		
a = -0.573430 - 0.514163I	4.99134 + 4.59016I	0
b = -1.31301 + 0.55907I		
u = 0.065482 + 0.870039I		
a = 0.324621 + 0.935946I	3.58038 + 1.00115I	0
b = 0.382776 + 0.862810I		
u = 0.065482 - 0.870039I		
a = 0.324621 - 0.935946I	3.58038 - 1.00115I	0
b = 0.382776 - 0.862810I		
u = 0.638725 + 0.591019I		
a = -0.82670 - 1.36318I	6.01799 + 0.02149I	0
b = 1.084580 - 0.644673I		
u = 0.638725 - 0.591019I		
a = -0.82670 + 1.36318I	6.01799 - 0.02149I	0
b = 1.084580 + 0.644673I		
u = -1.065930 + 0.376474I		
a = -1.10012 + 2.03588I	-4.12211 + 4.42876I	0
b = 0.597280 + 1.082100I		
u = -1.065930 - 0.376474I		
a = -1.10012 - 2.03588I	-4.12211 - 4.42876I	0
b = 0.597280 - 1.082100I		
u = -0.892269 + 0.697624I		
a = -0.118739 + 0.719472I	2.42353 + 4.54361I	0
b = 0.567912 + 0.204651I		
u = -0.892269 - 0.697624I		
a = -0.118739 - 0.719472I	2.42353 - 4.54361I	0
b = 0.567912 - 0.204651I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.027730 + 0.484842I		
a = 1.40720 + 1.43551I	-4.98488 - 3.27724I	0
b = -0.647611 + 1.193990I		
u = 1.027730 - 0.484842I		
a = 1.40720 - 1.43551I	-4.98488 + 3.27724I	0
b = -0.647611 - 1.193990I		
u = -1.017850 + 0.506171I		
a = 1.205170 + 0.070273I	2.95096 + 0.50612I	0
b = 0.862311 - 0.588679I		
u = -1.017850 - 0.506171I		
a = 1.205170 - 0.070273I	2.95096 - 0.50612I	0
b = 0.862311 + 0.588679I		
u = -1.068610 + 0.390671I		
a = 1.53381 - 1.90229I	-4.22696 - 1.78557I	0
b = -0.234645 - 1.316720I		
u = -1.068610 - 0.390671I		
a = 1.53381 + 1.90229I	-4.22696 + 1.78557I	0
b = -0.234645 + 1.316720I		
u = 1.117730 + 0.232156I		
a = 1.06354 + 1.97674I	-1.55971 + 3.00952I	0
b = 0.51053 + 1.31920I		
u = 1.117730 - 0.232156I		
a = 1.06354 - 1.97674I	-1.55971 - 3.00952I	0
b = 0.51053 - 1.31920I		
u = -0.805641 + 0.294796I		
a = -1.07909 + 2.44263I	-4.63011 + 0.26293I	0
b = 0.11023 + 1.53526I		
u = -0.805641 - 0.294796I		
a = -1.07909 - 2.44263I	-4.63011 - 0.26293I	0
b = 0.11023 - 1.53526I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.030610 + 0.511647I		
a = 0.857025 - 1.113470I	4.09351 - 2.85661I	0
b = 1.46154 + 0.38377I		
u = 1.030610 - 0.511647I		
a = 0.857025 + 1.113470I	4.09351 + 2.85661I	0
b = 1.46154 - 0.38377I		
u = 1.056680 + 0.458003I		
a = -1.02152 - 2.04281I	-3.83664 - 8.67245I	0
b = -0.03471 - 1.58391I		
u = 1.056680 - 0.458003I		
a = -1.02152 + 2.04281I	-3.83664 + 8.67245I	0
b = -0.03471 + 1.58391I		
u = 0.078744 + 0.843924I		
a = 0.951130 - 0.087666I	0.57601 + 2.49633I	0
b = -0.634676 - 0.906333I		
u = 0.078744 - 0.843924I		
a = 0.951130 + 0.087666I	0.57601 - 2.49633I	0
b = -0.634676 + 0.906333I		
u = 0.504109 + 0.681189I		
a = 0.623585 + 0.612398I	0.24404 - 1.65320I	0
b = -0.493133 + 0.693577I		
u = 0.504109 - 0.681189I		
a = 0.623585 - 0.612398I	0.24404 + 1.65320I	0
b = -0.493133 - 0.693577I		
u = -1.020070 + 0.543373I		
a = -2.28187 + 1.51956I	-1.82010 + 9.54280I	0
b = 0.446272 + 1.234780I		
u = -1.020070 - 0.543373I		
a = -2.28187 - 1.51956I	-1.82010 - 9.54280I	0
b = 0.446272 - 1.234780I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.147040 + 0.152395I		
a = -0.43103 + 1.93203I	-1.91777 - 5.08765I	0
b = -0.290755 + 1.183820I		
u = 1.147040 - 0.152395I		
a = -0.43103 - 1.93203I	-1.91777 + 5.08765I	0
b = -0.290755 - 1.183820I		
u = -1.000260 + 0.586099I		
a = -1.58088 + 2.70672I	3.23768 + 8.77205I	0
b = 0.264832 + 0.991964I		
u = -1.000260 - 0.586099I		
a = -1.58088 - 2.70672I	3.23768 - 8.77205I	0
b = 0.264832 - 0.991964I		
u = -0.600479 + 0.586771I		
a = 0.346395 - 0.270473I	4.19283 + 3.80808I	0
b = -0.772809 - 0.878034I		
u = -0.600479 - 0.586771I		
a = 0.346395 + 0.270473I	4.19283 - 3.80808I	0
b = -0.772809 + 0.878034I		
u = 0.742136 + 0.900992I		
a = -0.532909 - 0.520069I	5.58174 - 10.10730I	0
b = 0.538981 - 0.923745I		
u = 0.742136 - 0.900992I		
a = -0.532909 + 0.520069I	5.58174 + 10.10730I	0
b = 0.538981 + 0.923745I		
u = -0.340027 + 0.744242I		
a = 0.395591 + 0.358633I	2.91374 - 5.66390I	0
b = -0.75158 + 1.27553I		
u = -0.340027 - 0.744242I		
a = 0.395591 - 0.358633I	2.91374 + 5.66390I	0
b = -0.75158 - 1.27553I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.414357 + 0.691815I		
a = 0.303086 - 0.757140I	-0.00039 + 3.83804I	0
b = -0.483317 - 1.148190I		
u = 0.414357 - 0.691815I		
a = 0.303086 + 0.757140I	-0.00039 - 3.83804I	0
b = -0.483317 + 1.148190I		
u = 1.068810 + 0.534728I		
a = -1.81839 - 1.26370I	-5.39193 - 5.98434I	0
b = 0.301792 - 1.073170I		
u = 1.068810 - 0.534728I		
a = -1.81839 + 1.26370I	-5.39193 + 5.98434I	0
b = 0.301792 + 1.073170I		
u = 1.056870 + 0.566007I		
a = 0.268596 - 0.035077I	-1.41651 - 3.15188I	0
b = 0.698430 + 0.370411I		
u = 1.056870 - 0.566007I		
a = 0.268596 + 0.035077I	-1.41651 + 3.15188I	0
b = 0.698430 - 0.370411I		
u = 0.145061 + 0.781986I		
a = 0.730165 + 0.430423I	-0.539309 - 1.235390I	0
b = -0.339025 + 1.000820I		
u = 0.145061 - 0.781986I		
a = 0.730165 - 0.430423I	-0.539309 + 1.235390I	0
b = -0.339025 - 1.000820I		
u = 1.129220 + 0.435354I		
a = 0.65013 + 1.46535I	-3.59973 - 3.05282I	0
b = 0.228869 + 1.224050I		
u = 1.129220 - 0.435354I		
a = 0.65013 - 1.46535I	-3.59973 + 3.05282I	0
b = 0.228869 - 1.224050I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.124380 + 0.454383I		
a = -0.32000 - 2.13154I	2.68104 - 6.28248I	0
b = 0.705214 - 0.694556I		
u = 1.124380 - 0.454383I		
a = -0.32000 + 2.13154I	2.68104 + 6.28248I	0
b = 0.705214 + 0.694556I		
u = 0.963197 + 0.740219I		
a = 0.325782 - 0.495321I	3.92026 - 6.41702I	0
b = 0.270728 + 0.793305I		
u = 0.963197 - 0.740219I		
a = 0.325782 + 0.495321I	3.92026 + 6.41702I	0
b = 0.270728 - 0.793305I		
u = 1.062000 + 0.598702I		
a = -0.296376 + 0.570831I	-0.31643 - 8.61700I	0
b = -1.089920 - 0.070772I		
u = 1.062000 - 0.598702I		
a = -0.296376 - 0.570831I	-0.31643 + 8.61700I	0
b = -1.089920 + 0.070772I		
u = -1.037710 + 0.643579I		
a = 0.88980 - 1.74986I	4.90267 - 0.17583I	0
b = -0.431012 - 0.819080I		
u = -1.037710 - 0.643579I		
a = 0.88980 + 1.74986I	4.90267 + 0.17583I	0
b = -0.431012 + 0.819080I		
u = -0.577315 + 0.520736I		
a = 1.071830 - 0.743579I	-0.45369 - 5.13953I	0
b = -0.316760 + 1.167730I		
u = -0.577315 - 0.520736I		
a = 1.071830 + 0.743579I	-0.45369 + 5.13953I	0
b = -0.316760 - 1.167730I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.088770 + 0.564897I		
a = -1.25493 - 2.18049I	-1.98689 - 8.69701I	0
b = 0.470126 - 1.310230I		
u = 1.088770 - 0.564897I		
a = -1.25493 + 2.18049I	-1.98689 + 8.69701I	0
b = 0.470126 + 1.310230I		
u = -1.190940 + 0.330945I		
a = 0.447309 - 0.978475I	-3.56178 + 1.46203I	0
b = 0.585306 - 1.073920I		
u = -1.190940 - 0.330945I		
a = 0.447309 + 0.978475I	-3.56178 - 1.46203I	0
b = 0.585306 + 1.073920I		
u = -1.067670 + 0.626280I		
a = 0.032434 + 0.506548I	1.30935 + 6.42406I	0
b = 0.836061 - 0.283749I		
u = -1.067670 - 0.626280I		
a = 0.032434 - 0.506548I	1.30935 - 6.42406I	0
b = 0.836061 + 0.283749I		
u = 0.745799 + 0.049882I		
a = -0.93924 - 2.13980I	-1.77412 + 5.58953I	0
b = -0.26679 - 1.43329I		
u = 0.745799 - 0.049882I		
a = -0.93924 + 2.13980I	-1.77412 - 5.58953I	0
b = -0.26679 + 1.43329I		
u = -1.117920 + 0.565724I		
a = -1.21803 + 2.23264I	0.64025 + 10.62890I	0
b = 0.77731 + 1.39873I		
u = -1.117920 - 0.565724I		
a = -1.21803 - 2.23264I	0.64025 - 10.62890I	0
b = 0.77731 - 1.39873I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.166080 + 0.459572I		
a = -0.87354 - 1.48854I	-2.74810 - 7.02865I	0
b = 0.802358 - 0.888925I		
u = 1.166080 - 0.459572I		
a = -0.87354 + 1.48854I	-2.74810 + 7.02865I	0
b = 0.802358 + 0.888925I		
u = 1.080380 + 0.639060I		
a = 0.96725 + 1.59238I	-1.03765 - 4.80800I	0
b = -0.446377 + 1.224980I		
u = 1.080380 - 0.639060I		
a = 0.96725 - 1.59238I	-1.03765 + 4.80800I	0
b = -0.446377 - 1.224980I		
u = -1.082490 + 0.638777I		
a = 1.06846 - 1.64530I	2.47727 + 11.85550I	0
b = -0.76154 - 1.26899I		
u = -1.082490 - 0.638777I		
a = 1.06846 + 1.64530I	2.47727 - 11.85550I	0
b = -0.76154 + 1.26899I		
u = -1.104130 + 0.609169I		
a = -0.576034 - 0.615111I	3.7990 + 13.8139I	0
b = -1.230980 + 0.361625I		
u = -1.104130 - 0.609169I		
a = -0.576034 + 0.615111I	3.7990 - 13.8139I	0
b = -1.230980 - 0.361625I		
u = -1.263260 + 0.021990I		
a = -0.02390 - 1.98412I	-5.89696 - 3.11148I	0
b = 0.297847 - 1.149880I		
u = -1.263260 - 0.021990I		
a = -0.02390 + 1.98412I	-5.89696 + 3.11148I	0
b = 0.297847 + 1.149880I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.163320 + 0.500177I		
a = -1.36864 + 1.22472I	0.17746 + 3.58440I	0
b = -0.056937 + 0.744575I		
u = -1.163320 - 0.500177I		
a = -1.36864 - 1.22472I	0.17746 - 3.58440I	0
b = -0.056937 - 0.744575I		
u = 0.956045 + 0.832685I		
a = -0.376165 - 0.165442I	4.94992 + 3.81076I	0
b = -0.427025 - 0.808821I		
u = 0.956045 - 0.832685I		
a = -0.376165 + 0.165442I	4.94992 - 3.81076I	0
b = -0.427025 + 0.808821I		
u = 0.489584 + 0.518546I		
a = 0.935824 + 0.666432I	5.68299 - 1.39560I	11.11523 + 0.I
b = -1.249730 + 0.445727I		
u = 0.489584 - 0.518546I		
a = 0.935824 - 0.666432I	5.68299 + 1.39560I	11.11523 + 0.I
b = -1.249730 - 0.445727I		
u = -0.634940 + 0.313078I		
a = 2.12399 + 0.07983I	3.07344 - 0.45275I	0 2.04570I
b = 0.203818 - 0.164584I		
u = -0.634940 - 0.313078I		
a = 2.12399 - 0.07983I	3.07344 + 0.45275I	0. + 2.04570I
b = 0.203818 + 0.164584I		
u = 0.385920 + 0.576492I		
a = 1.027280 + 0.319387I	-3.45729 + 1.49634I	-6.03648 - 0.76331I
b = -0.097709 - 1.018770I		
u = 0.385920 - 0.576492I		
a = 1.027280 - 0.319387I	-3.45729 - 1.49634I	-6.03648 + 0.76331I
b = -0.097709 + 1.018770I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.026060 + 0.828448I		
a = -0.376856 + 0.480730I	2.56853 + 4.27881I	0
b = 0.003078 + 0.557286I		
u = -1.026060 - 0.828448I		
a = -0.376856 - 0.480730I	2.56853 - 4.27881I	0
b = 0.003078 - 0.557286I		
u = -1.326580 + 0.139331I		
a = -0.50332 + 1.76180I	-2.76141 - 11.41250I	0
b = -0.518467 + 1.212420I		
u = -1.326580 - 0.139331I		
a = -0.50332 - 1.76180I	-2.76141 + 11.41250I	0
b = -0.518467 - 1.212420I		
u = 1.150520 + 0.683850I		
a = -1.29947 - 1.57463I	-1.30612 - 11.63750I	0
b = 0.574555 - 1.163460I		
u = 1.150520 - 0.683850I		
a = -1.29947 + 1.57463I	-1.30612 + 11.63750I	0
b = 0.574555 + 1.163460I		
u = 1.176070 + 0.642500I		
a = 1.11802 + 1.90279I	0.7855 - 20.6154I	0
b = -0.70489 + 1.29500I		
u = 1.176070 - 0.642500I		
a = 1.11802 - 1.90279I	0.7855 + 20.6154I	0
b = -0.70489 - 1.29500I		
u = -1.187650 + 0.632861I		
a = 0.98537 - 1.84503I	-4.1124 + 14.3834I	0
b = -0.56443 - 1.29825I		
u = -1.187650 - 0.632861I		
a = 0.98537 + 1.84503I	-4.1124 - 14.3834I	0
b = -0.56443 + 1.29825I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.213860 + 0.602592I		
a = -0.91914 + 1.69461I	-3.50423 + 7.77458I	0
b = 0.515726 + 1.085740I		
u = -1.213860 - 0.602592I		
a = -0.91914 - 1.69461I	-3.50423 - 7.77458I	0
b = 0.515726 - 1.085740I		
u = 0.428021 + 0.440537I		
a = 0.038516 - 1.158420I	-3.28989 - 0.67593I	-3.46240 + 2.11656I
b = 0.336616 + 1.033640I		
u = 0.428021 - 0.440537I		
a = 0.038516 + 1.158420I	-3.28989 + 0.67593I	-3.46240 - 2.11656I
b = 0.336616 - 1.033640I		
u = 1.374950 + 0.178516I		
a = -0.48025 - 1.67648I	-7.42030 + 4.82870I	0
b = -0.304567 - 1.136550I		
u = 1.374950 - 0.178516I		
a = -0.48025 + 1.67648I	-7.42030 - 4.82870I	0
b = -0.304567 + 1.136550I		
u = 0.272573 + 0.531501I		
a = 0.434699 - 0.897984I	5.13662 + 2.23226I	10.58231 - 4.44049I
b = -0.906164 - 0.554310I		
u = 0.272573 - 0.531501I		
a = 0.434699 + 0.897984I	5.13662 - 2.23226I	10.58231 + 4.44049I
b = -0.906164 + 0.554310I		
u = 1.266350 + 0.612971I		
a = 0.53210 + 1.77694I	0.06076 - 6.49031I	0
b = -0.323250 + 1.145190I		
u = 1.266350 - 0.612971I		
a = 0.53210 - 1.77694I	0.06076 + 6.49031I	0
b = -0.323250 - 1.145190I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.41391 + 0.17970I		
a = -0.29438 + 1.54211I	-5.28549 + 3.79395I	0
b = 0.026323 + 0.894160I		
u = -1.41391 - 0.17970I		
a = -0.29438 - 1.54211I	-5.28549 - 3.79395I	0
b = 0.026323 - 0.894160I		
u = 1.40433 + 0.31068I		
a = 0.25204 + 1.52788I	-5.90557 - 2.36507I	0
b = 0.249386 + 0.964809I		
u = 1.40433 - 0.31068I		
a = 0.25204 - 1.52788I	-5.90557 + 2.36507I	0
b = 0.249386 - 0.964809I		
u = 0.145839 + 0.541331I		
a = 0.568074 + 0.504752I	0.160507 - 1.160930I	2.09476 + 5.42026I
b = -0.177439 + 0.394688I		
u = 0.145839 - 0.541331I		
a = 0.568074 - 0.504752I	0.160507 + 1.160930I	2.09476 - 5.42026I
b = -0.177439 - 0.394688I		
u = -0.013709 + 0.455046I		
a = -1.062020 + 0.435805I	-1.45705 + 5.11933I	0.27914 - 6.27378I
b = -0.037504 - 1.324710I		
u = -0.013709 - 0.455046I		
a = -1.062020 - 0.435805I	-1.45705 - 5.11933I	0.27914 + 6.27378I
b = -0.037504 + 1.324710I		

$$\begin{array}{c} \text{II. } I_2^u = \\ \langle -8.32 \times 10^9 u^{45} - 6.69 \times 10^9 u^{44} + \cdots + 1.78 \times 10^9 b - 1.46 \times 10^{10}, \ -3.97 \times 10^{10} u^{45} - \\ 7.17 \times 10^{12} u^{44} + \cdots + 6.22 \times 10^{11} a + 2.81 \times 10^{12}, \ u^{46} - 13 u^{44} + \cdots + 3 u + 1 \rangle \end{array}$$

(i) Arc colorings

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

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 0.0638624u^{45} + 11.5206u^{44} + \dots - 14.4748u - 4.50983 \\ 4.66476u^{45} + 3.75370u^{44} + \dots + 22.8628u + 8.19014 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 12.5295u^{45} + 22.3749u^{44} + \dots - 46.5577u - 13.7090 \\ 5.65793u^{45} + 12.8490u^{44} + \dots - 58.2644u - 18.8836 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.770723u^{45} - 5.51237u^{44} + \dots - 39.5939u - 10.8333 \\ 11.5357u^{45} - 0.829968u^{44} + \dots - 2.61246u + 3.05844 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 3.50039u^{45} + 13.0643u^{44} + \dots - 10.8574u - 4.45922 \\ -1.95735u^{45} + 4.90763u^{44} + \dots - 32.4156u - 12.7115 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -4.60090u^{45} + 7.76691u^{44} + \dots - 37.3376u - 12.7000 \\ 4.66476u^{45} + 3.75370u^{44} + \dots + 22.8628u + 8.19014 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 38.4502u^{45} + 20.6340u^{44} + \dots - 156.788u - 35.8446 \\ 10.3141u^{45} + 3.14360u^{44} + \dots - 14.6467u - 3.48782 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -20.7825u^{45} - 4.86598u^{44} + \dots + 75.1849u + 13.0014 \\ 4.18709u^{45} - 10.2509u^{44} + \dots + 19.7218u + 11.5511 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes $= \frac{38029619317479}{622252886789} u^{45} + \frac{25499483632642}{622252886789} u^{44} + \dots - \frac{86588044328609}{622252886789} u - \frac{10648278393868}{622252886789} u^{44} + \dots$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{46} - 26u^{45} + \dots - 17u + 1$
c_2	$u^{46} - 13u^{44} + \dots - 3u + 1$
c_3	$u^{46} - 7u^{44} + \dots - 24u + 1$
c_4	$u^{46} + 2u^{45} + \dots - 2u + 1$
<i>C</i> 5	$u^{46} - 4u^{44} + \dots - 2u + 1$
c_6	$u^{46} - u^{45} + \dots + 3u + 1$
c_7	$u^{46} - 13u^{44} + \dots + 3u + 1$
c ₈	$u^{46} + 3u^{45} + \dots - 32u + 16$
c_9	$u^{46} - 12u^{44} + \dots - 4u + 1$
c_{10}	$u^{46} + u^{45} + \dots - 3u + 1$
c_{11}	$u^{46} - 2u^{45} + \dots + 2u + 1$
c_{12}	$u^{46} - u^{45} + \dots - 4u + 1$
-	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{46} + 2y^{45} + \dots + 79y + 1$
c_2, c_7	$y^{46} - 26y^{45} + \dots - 17y + 1$
c_3	$y^{46} - 14y^{45} + \dots - 126y + 1$
c_4, c_{11}	$y^{46} - 42y^{45} + \dots + 94y + 1$
c_5	$y^{46} - 8y^{45} + \dots - 6y + 1$
c_6, c_{10}	$y^{46} + 23y^{45} + \dots + 39y + 1$
c ₈	$y^{46} - 17y^{45} + \dots + 6272y + 256$
<i>c</i> ₉	$y^{46} - 24y^{45} + \dots + 4y + 1$
c_{12}	$y^{46} + 11y^{45} + \dots + 20y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.983450 + 0.307125I		
a = 1.27573 - 2.77840I	-2.78091 - 4.08603I	-1.94989 + 7.15790I
b = 0.29492 - 1.44654I		
u = -0.983450 - 0.307125I		
a = 1.27573 + 2.77840I	-2.78091 + 4.08603I	-1.94989 - 7.15790I
b = 0.29492 + 1.44654I		
u = 0.508125 + 0.808557I		
a = 0.485368 - 0.343164I	1.38404 + 5.17961I	4.31891 - 4.07830I
b = -0.514311 - 1.170440I		
u = 0.508125 - 0.808557I		
a = 0.485368 + 0.343164I	1.38404 - 5.17961I	4.31891 + 4.07830I
b = -0.514311 + 1.170440I		
u = 0.486117 + 0.815840I		
a = -0.290003 + 0.139054I	3.83350 - 1.89281I	3.03382 - 2.00944I
b = -0.317980 + 0.729688I		
u = 0.486117 - 0.815840I		
a = -0.290003 - 0.139054I	3.83350 + 1.89281I	3.03382 + 2.00944I
b = -0.317980 - 0.729688I		
u = 1.016590 + 0.296435I		
a = 0.44819 + 1.44608I	-5.66471 - 1.82909I	-6.27153 + 1.88473I
b = 0.299794 + 1.323860I		
u = 1.016590 - 0.296435I		
a = 0.44819 - 1.44608I	-5.66471 + 1.82909I	-6.27153 - 1.88473I
b = 0.299794 - 1.323860I		
u = 1.017280 + 0.329546I		
a = -1.84687 - 3.09272I	1.18852 - 6.75745I	-5.85855 + 10.28788I
b = 0.210314 - 0.683314I		
u = 1.017280 - 0.329546I		
a = -1.84687 + 3.09272I	1.18852 + 6.75745I	-5.85855 - 10.28788I
b = 0.210314 + 0.683314I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.889217 + 0.238247I		
a = 1.11063 + 2.67494I	-5.11527 - 0.32243I	-10.16583 + 0.17691I
b = -0.12897 + 1.43140I		
u = 0.889217 - 0.238247I		
a = 1.11063 - 2.67494I	-5.11527 + 0.32243I	-10.16583 - 0.17691I
b = -0.12897 - 1.43140I		
u = -0.884696 + 0.216141I		
a = -0.37171 - 1.45187I	-2.25285 + 6.28410I	-4.60391 - 10.79728I
b = -0.146917 - 1.365460I		
u = -0.884696 - 0.216141I		
a = -0.37171 + 1.45187I	-2.25285 - 6.28410I	-4.60391 + 10.79728I
b = -0.146917 + 1.365460I		
u = -0.988939 + 0.481946I		
a = 0.390173 + 1.243250I	3.69812 + 3.98830I	2.47414 - 8.23564I
b = 1.331530 - 0.244460I		
u = -0.988939 - 0.481946I		
a = 0.390173 - 1.243250I	3.69812 - 3.98830I	2.47414 + 8.23564I
b = 1.331530 + 0.244460I		
u = 0.988505 + 0.485066I		
a = 0.853617 - 0.897578I	3.71797 - 1.68279I	3.63985 + 0.I
b = 1.343740 + 0.128159I		
u = 0.988505 - 0.485066I		
a = 0.853617 + 0.897578I	3.71797 + 1.68279I	3.63985 + 0.I
b = 1.343740 - 0.128159I		
u = -0.009183 + 0.881297I		
a = 0.721467 + 0.459682I	-0.99961 - 1.53292I	-10.15313 + 1.71263I
b = -0.374509 + 0.930811I		
u = -0.009183 - 0.881297I		
a = 0.721467 - 0.459682I	-0.99961 + 1.53292I	-10.15313 - 1.71263I
b = -0.374509 - 0.930811I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.892666 + 0.689566I		
a = -0.669806 + 0.547107I	4.38829 + 7.42541I	4.35147 - 8.92139I
b = -0.010882 - 0.472603I		
u = -0.892666 - 0.689566I		
a = -0.669806 - 0.547107I	4.38829 - 7.42541I	4.35147 + 8.92139I
b = -0.010882 + 0.472603I		
u = -0.838787 + 0.758510I		
a = 1.286240 - 0.210947I	4.56776 - 1.93307I	0. + 4.28767I
b = -0.093443 - 0.547401I		
u = -0.838787 - 0.758510I		
a = 1.286240 + 0.210947I	4.56776 + 1.93307I	04.28767I
b = -0.093443 + 0.547401I		
u = 0.793997 + 0.311124I		
a = 2.72418 + 1.51817I	2.02547 + 4.03936I	3.20903 - 6.00915I
b = -0.219312 - 0.546251I		
u = 0.793997 - 0.311124I		
a = 2.72418 - 1.51817I	2.02547 - 4.03936I	3.20903 + 6.00915I
b = -0.219312 + 0.546251I		
u = 0.690355 + 0.473788I		
a = -0.260469 + 0.713147I	4.72985 - 2.27614I	6.16486 + 3.97617I
b = -1.082070 + 0.192047I		
u = 0.690355 - 0.473788I		
a = -0.260469 - 0.713147I	4.72985 + 2.27614I	6.16486 - 3.97617I
b = -1.082070 - 0.192047I		
u = -0.687149 + 0.469796I		
a = 0.97857 - 1.17245I	4.72077 - 0.05313I	6.00851 + 0.58112I
b = -1.075890 - 0.291723I		
u = -0.687149 - 0.469796I		
a = 0.97857 + 1.17245I	4.72077 + 0.05313I	6.00851 - 0.58112I
b = -1.075890 + 0.291723I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.104990 + 0.484198I		
a = -1.26286 + 1.49113I	-4.14170 + 5.74758I	0
b = 0.543770 + 0.938016I		
u = -1.104990 - 0.484198I		
a = -1.26286 - 1.49113I	-4.14170 - 5.74758I	0
b = 0.543770 - 0.938016I		
u = 1.086570 + 0.602703I		
a = -1.52060 - 1.91422I	-0.42089 - 10.46380I	0
b = 0.58461 - 1.31616I		
u = 1.086570 - 0.602703I		
a = -1.52060 + 1.91422I	-0.42089 + 10.46380I	0
b = 0.58461 + 1.31616I		
u = 1.039100 + 0.794067I		
a = 0.477616 + 0.305159I	2.33228 - 4.21371I	0
b = 0.062581 + 0.655893I		
u = 1.039100 - 0.794067I		
a = 0.477616 - 0.305159I	2.33228 + 4.21371I	0
b = 0.062581 - 0.655893I		
u = -0.639983 + 0.249769I		
a = 0.67363 - 1.32920I	-2.01785 - 2.39313I	2.05637 + 2.65893I
b = -0.415246 + 0.716769I		
u = -0.639983 - 0.249769I		
a = 0.67363 + 1.32920I	-2.01785 + 2.39313I	2.05637 - 2.65893I
b = -0.415246 - 0.716769I		
u = -1.229560 + 0.569871I		
a = -0.55297 + 1.90012I	-0.14432 + 6.37560I	0
b = 0.351530 + 1.133520I		
u = -1.229560 - 0.569871I		
a = -0.55297 - 1.90012I	-0.14432 - 6.37560I	0
b = 0.351530 - 1.133520I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.361530 + 0.103984I		
a = -0.11044 + 1.88659I	-5.68699 + 4.24746I	0
b = 0.170996 + 0.980723I		
u = -1.361530 - 0.103984I		
a = -0.11044 - 1.88659I	-5.68699 - 4.24746I	0
b = 0.170996 - 0.980723I		
u = 1.370330 + 0.276644I		
a = 0.193597 + 1.398250I	-5.69358 - 2.75745I	0
b = 0.200358 + 0.968181I		
u = 1.370330 - 0.276644I		
a = 0.193597 - 1.398250I	-5.69358 + 2.75745I	0
b = 0.200358 - 0.968181I		
u = -0.265250 + 0.299069I		
a = 0.26672 + 3.18660I	3.26692 - 2.01340I	1.97380 + 3.73498I
b = -0.514614 + 0.864188I		
u = -0.265250 - 0.299069I		
a = 0.26672 - 3.18660I	3.26692 + 2.01340I	1.97380 - 3.73498I
b = -0.514614 - 0.864188I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{46} - 26u^{45} + \dots - 17u + 1)$ $\cdot (u^{178} + 85u^{177} + \dots + 12261791u + 703921)$
c_2	$(u^{46} - 13u^{44} + \dots - 3u + 1)(u^{178} + u^{177} + \dots + 3043u + 839)$
c_3	$ (u^{46} - 7u^{44} + \dots - 24u + 1)(u^{178} + u^{177} + \dots + 354196u + 339257) $
c_4	$(u^{46} + 2u^{45} + \dots - 2u + 1)(u^{178} + u^{177} + \dots - 563010u + 122123)$
c_5	$(u^{46} - 4u^{44} + \dots - 2u + 1)(u^{178} + 5u^{177} + \dots + 300u + 179)$
c_6	$(u^{46} - u^{45} + \dots + 3u + 1)(u^{178} + 46u^{176} + \dots + 147913u + 12577)$
c_7	$(u^{46} - 13u^{44} + \dots + 3u + 1)(u^{178} + u^{177} + \dots + 3043u + 839)$
c_8	$(u^{46} + 3u^{45} + \dots - 32u + 16)$ $\cdot (u^{178} - 8u^{177} + \dots - 193237632u + 17520832)$
<i>c</i> ₉	$ (u^{46} - 12u^{44} + \dots - 4u + 1)(u^{178} - 3u^{177} + \dots - 316u + 83) $
c_{10}	$ (u^{46} + u^{45} + \dots - 3u + 1)(u^{178} + 46u^{176} + \dots + 147913u + 12577) $
c_{11}	$(u^{46} - 2u^{45} + \dots + 2u + 1)(u^{178} + u^{177} + \dots - 563010u + 122123)$
c_{12}	$(u^{46} - u^{45} + \dots - 4u + 1)(u^{178} + 6u^{177} + \dots - 2444512u + 375469)$ 33

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{46} + 2y^{45} + \dots + 79y + 1)$ $\cdot (y^{178} + 31y^{177} + \dots - 583680219959y + 495504774241)$
c_2, c_7	$(y^{46} - 26y^{45} + \dots - 17y + 1)$ $\cdot (y^{178} - 85y^{177} + \dots - 12261791y + 703921)$
c_3	$(y^{46} - 14y^{45} + \dots - 126y + 1)$ $\cdot (y^{178} - 5y^{177} + \dots + 10288606046288y + 115095312049)$
c_4, c_{11}	$(y^{46} - 42y^{45} + \dots + 94y + 1)$ $\cdot (y^{178} - 133y^{177} + \dots - 108608624088y + 14914027129)$
C ₅	$(y^{46} - 8y^{45} + \dots - 6y + 1)(y^{178} - 19y^{177} + \dots + 637456y + 32041)$
c_6, c_{10}	$(y^{46} + 23y^{45} + \dots + 39y + 1)$ $\cdot (y^{178} + 92y^{177} + \dots + 9058774801y + 158180929)$
c ₈	$(y^{46} - 17y^{45} + \dots + 6272y + 256)$ $\cdot (y^{178} + 8y^{177} + \dots + 24453354177839104y + 306979553972224)$
<i>c</i> ₉	$(y^{46} - 24y^{45} + \dots + 4y + 1)(y^{178} - 35y^{177} + \dots - 612962y + 6889)$
c_{12}	$(y^{46} + 11y^{45} + \dots + 20y + 1)$ $\cdot (y^{178} + 40y^{177} + \dots + 11873515289866y + 140976969961)$