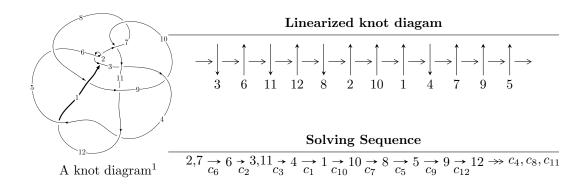
$12a_{0487} (K12a_{0487})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 6.97834 \times 10^{541} u^{174} + 6.18922 \times 10^{542} u^{173} + \dots + 5.84381 \times 10^{542} b + 4.55462 \times 10^{545}, \\ &3.74109 \times 10^{545} u^{174} + 1.30601 \times 10^{546} u^{173} + \dots + 6.52753 \times 10^{545} a + 4.73645 \times 10^{547}, \\ &u^{175} + 4 u^{174} + \dots + 6175 u + 1117 \rangle \\ I_2^u &= \langle 8832633158 u^{43} + 28505051997 u^{42} + \dots + 4990744411 b + 36995583025, \\ &53295260397 u^{43} - 140240440915 u^{42} + \dots + 4990744411 a - 80983955218, \\ &u^{44} - u^{43} + \dots - 5 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 219 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.
$$I_1^u = \langle 6.98 \times 10^{541} u^{174} + 6.19 \times 10^{542} u^{173} + \dots + 5.84 \times 10^{542} b + 4.55 \times 10^{545}, \ 3.74 \times 10^{545} u^{174} + 1.31 \times 10^{546} u^{173} + \dots + 6.53 \times 10^{545} a + 4.74 \times 10^{547}, \ u^{175} + 4u^{174} + \dots + 6175 u + 1117 \rangle$$

(i) Arc colorings

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

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

$$a_{6} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -0.573125u^{174} - 2.00077u^{173} + \dots - 1079.69u - 72.5611 \\ -0.119414u^{174} - 1.05911u^{173} + \dots - 3832.66u - 779.393 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.669635u^{174} + 0.835488u^{173} + \dots - 6116.01u - 1455.53 \\ -0.256227u^{174} - 0.356799u^{173} + \dots + 2129.74u + 508.045 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -0.453711u^{174} - 0.941658u^{173} + \dots + 2752.96u + 706.832 \\ -0.119414u^{174} - 1.05911u^{173} + \dots - 3832.66u - 779.393 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -2.07547u^{174} - 7.00149u^{173} + \dots - 3832.2u - 202.885 \\ 0.0526862u^{174} - 0.663567u^{173} + \dots - 4427.74u - 936.746 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.104480u^{174} + 1.55732u^{173} + \dots + 5981.79u + 1247.39 \\ 0.0420972u^{174} - 0.484376u^{173} + \dots - 2892.27u - 619.913 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -2.09026u^{174} - 7.90330u^{173} + \dots - 8049.25u - 1190.52 \\ -0.0104941u^{174} - 0.486964u^{173} + \dots - 2360.15u - 486.146 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1.05839u^{174} + 5.35345u^{173} + \dots + 11562.0u + 2160.82 \\ -0.305282u^{174} - 1.96470u^{173} + \dots - 5457.81u - 1056.61 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-1.32452u^{174} 4.02580u^{173} + \cdots + 31.4211u + 283.875$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{175} + 84u^{174} + \dots - 21510473u - 1247689$
c_2, c_6	$u^{175} - 4u^{174} + \dots + 6175u - 1117$
c_3	$u^{175} + 5u^{174} + \dots - 200903543u - 14492227$
c_4, c_{12}	$u^{175} + u^{174} + \dots + 38u - 1$
<i>C</i> 5	$u^{175} - 9u^{174} + \dots + 1244051648u - 87632999$
c_7,c_{10}	$u^{175} - 14u^{174} + \dots + 444875u - 24751$
C ₈	$u^{175} - 3u^{174} + \dots - 3228u - 745$
<i>C</i> 9	$u^{175} - u^{174} + \dots - 1852932u - 499117$
c_{11}	$u^{175} + 13u^{174} + \dots - 2u + 97$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{175} + 28y^{174} + \dots - 85299694583841y - 1556727840721$
c_{2}, c_{6}	$y^{175} + 84y^{174} + \dots - 21510473y - 1247689$
c_3	$y^{175} - 37y^{174} + \dots + 10887680210935327y - 210024643419529$
c_4, c_{12}	$y^{175} - 127y^{174} + \dots - 180y - 1$
<i>C</i> ₅	$y^{175} + 27y^{174} + \dots + 136692045245606196y - 7679542513734001$
c_7, c_{10}	$y^{175} + 94y^{174} + \dots - 17564282207y - 612612001$
<i>c</i> ₈	$y^{175} - 29y^{174} + \dots + 14232894y - 555025$
<i>C</i> 9	$y^{175} + 29y^{174} + \dots - 22256433571302y - 249117779689$
c_{11}	$y^{175} - 27y^{174} + \dots + 580452y - 9409$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.325956 + 0.949466I		
a = -2.60340 + 1.92275I	1.58192 - 4.67301I	0
b = 0.005403 - 0.767784I		
u = 0.325956 - 0.949466I		
a = -2.60340 - 1.92275I	1.58192 + 4.67301I	0
b = 0.005403 + 0.767784I		
u = -0.987821 + 0.189772I		
a = -0.326720 - 0.404313I	-0.65552 + 1.79433I	0
b = -0.347434 - 1.012110I		
u = -0.987821 - 0.189772I		
a = -0.326720 + 0.404313I	-0.65552 - 1.79433I	0
b = -0.347434 + 1.012110I		
u = -0.364947 + 0.924553I		
a = -1.54353 - 1.00452I	-2.29353 - 2.27823I	0
b = -0.452814 - 0.602040I		
u = -0.364947 - 0.924553I		
a = -1.54353 + 1.00452I	-2.29353 + 2.27823I	0
b = -0.452814 + 0.602040I		
u = -0.813844 + 0.565118I		
a = -0.413123 - 1.262400I	2.87174 + 4.67293I	0
b = -0.701528 - 1.210640I		
u = -0.813844 - 0.565118I		
a = -0.413123 + 1.262400I	2.87174 - 4.67293I	0
b = -0.701528 + 1.210640I		
u = -0.958683 + 0.245748I		
a = 1.142750 + 0.622428I	3.30252 + 1.79502I	0
b = 0.609432 + 0.907836I		
u = -0.958683 - 0.245748I		
a = 1.142750 - 0.622428I	3.30252 - 1.79502I	0
b = 0.609432 - 0.907836I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.271679 + 0.975980I		
a = -1.59863 + 1.69105I	1.68466 + 6.98103I	0
b = -0.043481 + 0.141822I		
u = 0.271679 - 0.975980I		
a = -1.59863 - 1.69105I	1.68466 - 6.98103I	0
b = -0.043481 - 0.141822I		
u = -0.249223 + 0.951198I		
a = 0.022733 - 1.350770I	-4.79455 - 2.50479I	0
b = -0.090871 + 1.315720I		
u = -0.249223 - 0.951198I		
a = 0.022733 + 1.350770I	-4.79455 + 2.50479I	0
b = -0.090871 - 1.315720I		
u = -0.950176 + 0.364365I		
a = 0.941037 + 0.799797I	3.1539 + 14.7991I	0
b = 0.670816 + 1.243370I		
u = -0.950176 - 0.364365I		
a = 0.941037 - 0.799797I	3.1539 - 14.7991I	0
b = 0.670816 - 1.243370I		
u = -0.355020 + 0.959098I		
a = -0.194170 + 1.160960I	-5.19352 + 0.07694I	0
b = -0.273227 - 1.323650I		
u = -0.355020 - 0.959098I		
a = -0.194170 - 1.160960I	-5.19352 - 0.07694I	0
b = -0.273227 + 1.323650I		
u = 0.407927 + 0.886173I		
a = -0.729651 + 0.787225I	2.29763 - 1.16801I	0
b = -0.927594 + 1.034960I		
u = 0.407927 - 0.886173I		
a = -0.729651 - 0.787225I	2.29763 + 1.16801I	0
b = -0.927594 - 1.034960I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.143310 + 1.014600I		
a = 0.543110 - 0.814198I	-5.13023 - 2.18375I	0
b = -0.230486 + 1.383780I		
u = 0.143310 - 1.014600I		
a = 0.543110 + 0.814198I	-5.13023 + 2.18375I	0
b = -0.230486 - 1.383780I		
u = 0.961868 + 0.363103I		
a = 0.933450 - 0.715334I	-1.48419 - 8.82684I	0
b = 0.588144 - 1.160490I		
u = 0.961868 - 0.363103I		
a = 0.933450 + 0.715334I	-1.48419 + 8.82684I	0
b = 0.588144 + 1.160490I		
u = 0.414434 + 0.874408I		
a = -1.80192 + 1.45961I	2.31978 + 4.58023I	0
b = -0.658138 - 1.119250I		
u = 0.414434 - 0.874408I		
a = -1.80192 - 1.45961I	2.31978 - 4.58023I	0
b = -0.658138 + 1.119250I		
u = -0.902569 + 0.345482I		
a = 1.55696 - 0.21348I	3.57840 - 3.20414I	0
b = 0.665240 - 0.822100I		
u = -0.902569 - 0.345482I		
a = 1.55696 + 0.21348I	3.57840 + 3.20414I	0
b = 0.665240 + 0.822100I		
u = -0.356050 + 0.898168I		
a = -2.25572 - 2.08663I	-2.18994 - 0.67486I	0
b = -0.218914 + 0.896821I		
u = -0.356050 - 0.898168I		
a = -2.25572 + 2.08663I	-2.18994 + 0.67486I	0
b = -0.218914 - 0.896821I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.680433 + 0.677818I		
a = -0.572994 + 1.149020I	4.68042 - 0.92261I	0
b = -0.839860 + 0.269339I		
u = 0.680433 - 0.677818I		
a = -0.572994 - 1.149020I	4.68042 + 0.92261I	0
b = -0.839860 - 0.269339I		
u = -0.568795 + 0.764886I		
a = -1.41968 - 1.20891I	5.45673 - 2.09442I	0
b = -1.273990 + 0.431196I		
u = -0.568795 - 0.764886I		
a = -1.41968 + 1.20891I	5.45673 + 2.09442I	0
b = -1.273990 - 0.431196I		
u = 0.958711 + 0.434750I		
a = -0.255889 + 0.807548I	0.23870 - 5.12314I	0
b = -0.417655 + 1.259020I		
u = 0.958711 - 0.434750I		
a = -0.255889 - 0.807548I	0.23870 + 5.12314I	0
b = -0.417655 - 1.259020I		
u = -0.518573 + 0.917086I		
a = -1.07979 - 1.09258I	4.99730 - 2.25058I	0
b = -1.56419 - 0.26869I		
u = -0.518573 - 0.917086I		
a = -1.07979 + 1.09258I	4.99730 + 2.25058I	0
b = -1.56419 + 0.26869I		
u = -0.273045 + 1.019310I		
a = 0.570187 + 0.122249I	-1.17420 - 2.79461I	0
b = 0.303173 + 0.378363I		
u = -0.273045 - 1.019310I		
a = 0.570187 - 0.122249I	-1.17420 + 2.79461I	0
b = 0.303173 - 0.378363I		1

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.148278 + 1.051400I		
a = 0.608011 - 0.731055I	-3.85938 - 1.61276I	0
b = 0.688728 - 0.200996I		
u = 0.148278 - 1.051400I		
a = 0.608011 + 0.731055I	-3.85938 + 1.61276I	0
b = 0.688728 + 0.200996I		
u = -0.155373 + 1.052830I		
a = 0.611196 + 1.200530I	1.04897 + 6.48994I	0
b = 0.945554 + 0.107943I		
u = -0.155373 - 1.052830I		
a = 0.611196 - 1.200530I	1.04897 - 6.48994I	0
b = 0.945554 - 0.107943I		
u = -0.761759 + 0.541233I		
a = 0.849597 - 0.002654I	1.31816 - 0.63282I	0
b = 0.399416 + 0.813177I		
u = -0.761759 - 0.541233I		
a = 0.849597 + 0.002654I	1.31816 + 0.63282I	0
b = 0.399416 - 0.813177I		
u = 0.820029 + 0.709079I		
a = 0.910069 + 0.628289I	6.25198 - 1.81788I	0
b = 0.444111 + 0.577934I		
u = 0.820029 - 0.709079I		
a = 0.910069 - 0.628289I	6.25198 + 1.81788I	0
b = 0.444111 - 0.577934I		
u = 0.322487 + 1.039360I		
a = 0.511525 - 1.204290I	-4.22651 - 3.50011I	0
b = -0.27949 + 1.45121I		
u = 0.322487 - 1.039360I		
a = 0.511525 + 1.204290I	-4.22651 + 3.50011I	0
b = -0.27949 - 1.45121I		

$\begin{array}{l} b = -1.278770 + 0.259072I \\ \hline u = 0.496814 - 0.970984I \\ a = -0.796063 - 1.124390I & 1.41529 - 2.64820I \\ b = -1.278770 - 0.259072I \\ \hline u = 0.751149 + 0.508223I \\ a = 0.749854 + 0.217362I & 6.29900 + 5.67352I \\ b = 0.613536 - 0.689882I \\ \hline u = 0.749854 - 0.217362I & 6.29900 - 5.67352I \\ b = 0.613536 + 0.689882I \\ \hline b = 0.613536 + 0.689882I \\ \hline \end{array}$	ьe
$\begin{array}{c} b = -1.278770 + 0.259072I \\ \hline u = 0.496814 - 0.970984I \\ a = -0.796063 - 1.124390I & 1.41529 - 2.64820I \\ b = -1.278770 - 0.259072I \\ \hline u = 0.751149 + 0.508223I \\ a = 0.749854 + 0.217362I & 6.29900 + 5.67352I \\ b = 0.613536 - 0.689882I \\ \hline u = 0.749854 - 0.217362I & 6.29900 - 5.67352I \\ b = 0.613536 + 0.689882I \\ \hline b = 0.613536 + 0.689882I \\ \hline \end{array}$	
$\begin{array}{c} u = & 0.496814 - 0.970984I \\ a = & -0.796063 - 1.124390I \\ b = & -1.278770 - 0.259072I \\ \hline u = & 0.751149 + 0.508223I \\ a = & 0.749854 + 0.217362I \\ b = & 0.613536 - 0.689882I \\ \hline u = & 0.749854 - 0.217362I \\ a = & 0.749854 - 0.217362I \\ b = & 0.613536 + 0.689882I \\ \hline \end{array}$	0
$\begin{array}{lll} a = -0.796063 - 1.124390I & 1.41529 - 2.64820I \\ b = -1.278770 - 0.259072I & & \\ \hline u = & 0.751149 + 0.508223I \\ a = & 0.749854 + 0.217362I & 6.29900 + 5.67352I \\ b = & 0.613536 - 0.689882I & & \\ \hline u = & 0.751149 - 0.508223I \\ a = & 0.749854 - 0.217362I & 6.29900 - 5.67352I \\ b = & 0.613536 + 0.689882I & & \\ \end{array}$	
$\begin{array}{lll} b = -1.278770 - 0.259072I \\ \hline u = & 0.751149 + 0.508223I \\ a = & 0.749854 + 0.217362I \\ b = & 0.613536 - 0.689882I \\ \hline u = & 0.751149 - 0.508223I \\ a = & 0.749854 - 0.217362I \\ b = & 0.613536 + 0.689882I \\ \end{array}$	
$\begin{array}{lll} u = & 0.751149 + 0.508223I \\ a = & 0.749854 + 0.217362I & 6.29900 + 5.67352I \\ b = & 0.613536 - 0.689882I \\ \hline u = & 0.751149 - 0.508223I \\ a = & 0.749854 - 0.217362I & 6.29900 - 5.67352I \\ b = & 0.613536 + 0.689882I \end{array}$	0
$\begin{array}{lll} a = & 0.749854 + 0.217362I & 6.29900 + 5.67352I \\ b = & 0.613536 - 0.689882I & \\ \hline u = & 0.751149 - 0.508223I \\ a = & 0.749854 - 0.217362I & 6.29900 - 5.67352I \\ b = & 0.613536 + 0.689882I & \end{array}$	
$\begin{array}{lll} b = & 0.613536 - 0.689882I \\ \hline u = & 0.751149 - 0.508223I \\ a = & 0.749854 - 0.217362I \\ b = & 0.613536 + 0.689882I \end{array} \begin{array}{ll} 6.29900 - 5.67352I \\ \end{array}$	
$ \begin{array}{lll} u = & 0.751149 - 0.508223I \\ a = & 0.749854 - 0.217362I \\ b = & 0.613536 + 0.689882I \end{array} $	0
a = 0.749854 - 0.217362I $6.29900 - 5.67352I$ $b = 0.613536 + 0.689882I$	
b = 0.613536 + 0.689882I	
	0
0.496620 + 1.0991001	
u = -0.426630 + 1.022100I	
a = -0.973462 - 0.343443I -3.59033 - 7.63415I	0
b = 0.11014 + 1.71170I	
u = -0.426630 - 1.022100I	
a = -0.973462 + 0.343443I -3.59033 + 7.63415I	0
b = 0.11014 - 1.71170I	
u = -0.658238 + 0.588206I	
a = -0.478003 - 0.070068I $0.68565 - 1.44589I$	0
b = -0.426802 + 0.496050I	
u = -0.658238 - 0.588206I	
a = -0.478003 + 0.070068I $0.68565 + 1.44589I$	0
b = -0.426802 - 0.496050I	
u = -0.495890 + 1.002680I	
$a = -0.60282 - 1.54683I \qquad 4.62733 - 2.83690I$	0
b = -1.49918 - 0.22333I	
u = -0.495890 - 1.002680I	
a = -0.60282 + 1.54683I $4.62733 + 2.83690I$	0
b = -1.49918 + 0.22333I	

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.765897 + 0.432538I		
a = 1.71158 + 0.31154I	5.91294 + 8.43978I	0
b = 1.116070 - 0.385780I		
u = -0.765897 - 0.432538I		
a = 1.71158 - 0.31154I	5.91294 - 8.43978I	0
b = 1.116070 + 0.385780I		
u = 0.760598 + 0.439737I		
a = 1.54975 - 0.23049I	0.98319 - 3.49570I	0
b = 0.848605 + 0.347580I		
u = 0.760598 - 0.439737I		
a = 1.54975 + 0.23049I	0.98319 + 3.49570I	0
b = 0.848605 - 0.347580I		
u = 0.766928 + 0.416428I		
a = -0.719294 + 0.979594I	-0.25620 - 4.09535I	0
b = -0.552496 + 1.202390I		
u = 0.766928 - 0.416428I		
a = -0.719294 - 0.979594I	-0.25620 + 4.09535I	0
b = -0.552496 - 1.202390I		
u = -0.796033 + 0.338196I		
a = 0.381984 + 0.564663I	-0.144602 - 0.552072I	0
b = -0.083477 + 0.949279I		
u = -0.796033 - 0.338196I		
a = 0.381984 - 0.564663I	-0.144602 + 0.552072I	0
b = -0.083477 - 0.949279I		
u = 0.667731 + 0.541222I		
a = 1.079430 + 0.339682I	4.96437 - 5.68893I	0
b = 0.472468 - 0.994102I		
u = 0.667731 - 0.541222I		
a = 1.079430 - 0.339682I	4.96437 + 5.68893I	0
b = 0.472468 + 0.994102I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.594857 + 0.974758I		
a = -1.295740 + 0.259836I	3.76035 + 5.86797I	0
b = -1.082400 - 0.484273I		
u = 0.594857 - 0.974758I		
a = -1.295740 - 0.259836I	3.76035 - 5.86797I	0
b = -1.082400 + 0.484273I		
u = 0.402021 + 1.069680I		
a = -0.514803 + 0.273745I	-6.87012 + 3.96919I	0
b = 0.24583 - 1.45429I		
u = 0.402021 - 1.069680I		
a = -0.514803 - 0.273745I	-6.87012 - 3.96919I	0
b = 0.24583 + 1.45429I		
u = 0.503163 + 1.027550I		
a = 0.247457 + 0.752143I	2.67225 + 0.27392I	0
b = -0.934020 + 0.706950I		
u = 0.503163 - 1.027550I		
a = 0.247457 - 0.752143I	2.67225 - 0.27392I	0
b = -0.934020 - 0.706950I		
u = -0.455220 + 1.053460I		
a = 1.94394 + 0.24485I	-3.32146 + 1.11549I	0
b = 0.37972 - 1.37114I		
u = -0.455220 - 1.053460I		
a = 1.94394 - 0.24485I	-3.32146 - 1.11549I	0
b = 0.37972 + 1.37114I		
u = -0.269551 + 1.116900I		
a = 0.810587 + 0.735572I	-1.29673 + 2.79738I	0
b = -0.442477 - 1.279560I		
u = -0.269551 - 1.116900I		
a = 0.810587 - 0.735572I	-1.29673 - 2.79738I	0
b = -0.442477 + 1.279560I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.246138 + 1.124620I		
a = 0.255257 + 0.807824I	-3.53226 + 4.39070I	0
b = -0.185139 - 1.202140I		
u = 0.246138 - 1.124620I		
a = 0.255257 - 0.807824I	-3.53226 - 4.39070I	0
b = -0.185139 + 1.202140I		
u = -0.559059 + 1.010450I		
a = -2.41585 + 0.25340I	-3.72966 - 5.79595I	0
b = -0.398085 + 1.054620I		
u = -0.559059 - 1.010450I		
a = -2.41585 - 0.25340I	-3.72966 + 5.79595I	0
b = -0.398085 - 1.054620I		
u = 0.803976 + 0.238232I		
a = 0.433329 - 0.554170I	0.97451 + 1.31302I	0
b = -0.284435 - 0.859679I		
u = 0.803976 - 0.238232I		
a = 0.433329 + 0.554170I	0.97451 - 1.31302I	0
b = -0.284435 + 0.859679I		
u = 0.509321 + 0.664565I		
a = -1.65235 + 0.68133I	2.36501 + 1.47315I	0
b = -1.014050 - 0.435231I		
u = 0.509321 - 0.664565I		
a = -1.65235 - 0.68133I	2.36501 - 1.47315I	0
b = -1.014050 + 0.435231I		
u = -0.575736 + 0.603125I		
a = -0.76919 - 2.05804I	-2.47835 + 1.22081I	0
b = -0.228343 - 0.973153I		
u = -0.575736 - 0.603125I		
a = -0.76919 + 2.05804I	-2.47835 - 1.22081I	0
b = -0.228343 + 0.973153I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.566197 + 1.022380I		
a = -0.401563 - 0.132568I	-0.66270 - 3.30582I	0
b = -0.681159 - 0.132368I		
u = -0.566197 - 1.022380I		
a = -0.401563 + 0.132568I	-0.66270 + 3.30582I	0
b = -0.681159 + 0.132368I		
u = -0.858863 + 0.793976I		
a = 1.035520 - 0.355962I	1.42313 - 4.08662I	0
b = 0.381527 - 0.787545I		
u = -0.858863 - 0.793976I		
a = 1.035520 + 0.355962I	1.42313 + 4.08662I	0
b = 0.381527 + 0.787545I		
u = -0.759389 + 0.895606I		
a = 0.231638 + 0.618251I	1.10685 - 1.89670I	0
b = 0.257803 + 0.627572I		
u = -0.759389 - 0.895606I		
a = 0.231638 - 0.618251I	1.10685 + 1.89670I	0
b = 0.257803 - 0.627572I		
u = 0.449251 + 1.088340I		
a = 1.82740 - 0.47237I	-6.52018 + 3.15690I	0
b = 0.545522 + 1.176210I		
u = 0.449251 - 1.088340I		
a = 1.82740 + 0.47237I	-6.52018 - 3.15690I	0
b = 0.545522 - 1.176210I		
u = -0.218588 + 0.792950I		
a = 0.876250 + 0.366706I	-2.29717 + 4.70301I	0
b = -0.24118 - 1.62448I		
u = -0.218588 - 0.792950I		
a = 0.876250 - 0.366706I	-2.29717 - 4.70301I	0
b = -0.24118 + 1.62448I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.179211 + 0.801413I		
a = 1.332670 - 0.064493I	2.10855 - 0.54428I	0
b = -0.458872 + 0.301069I		
u = 0.179211 - 0.801413I		
a = 1.332670 + 0.064493I	2.10855 + 0.54428I	0
b = -0.458872 - 0.301069I		
u = 0.576339 + 1.036900I		
a = 1.54726 - 1.44567I	3.47285 + 10.53450I	0
b = 0.334840 + 1.105570I		
u = 0.576339 - 1.036900I		
a = 1.54726 + 1.44567I	3.47285 - 10.53450I	0
b = 0.334840 - 1.105570I		
u = 0.546083 + 1.060290I		
a = -2.38013 + 0.42911I	-2.67849 + 10.16570I	0
b = -0.433506 - 1.312240I		
u = 0.546083 - 1.060290I		
a = -2.38013 - 0.42911I	-2.67849 - 10.16570I	0
b = -0.433506 + 1.312240I		
u = -0.605895 + 1.028620I		
a = 1.62777 + 0.94825I	-0.12086 - 4.53150I	0
b = 0.298703 - 1.009030I		
u = -0.605895 - 1.028620I		
a = 1.62777 - 0.94825I	-0.12086 + 4.53150I	0
b = 0.298703 + 1.009030I		
u = 0.919248 + 0.773367I		
a = 0.863423 + 0.408281I	5.76777 + 9.94226I	0
b = 0.460087 + 0.883218I		
u = 0.919248 - 0.773367I		
a = 0.863423 - 0.408281I	5.76777 - 9.94226I	0
b = 0.460087 - 0.883218I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.558362 + 0.562107I		
a = -1.348790 - 0.413307I	4.07234 + 3.99322I	0
b = -0.849932 - 0.932238I		
u = 0.558362 - 0.562107I		
a = -1.348790 + 0.413307I	4.07234 - 3.99322I	0
b = -0.849932 + 0.932238I		
u = -0.720684 + 0.323222I		
a = -1.026560 - 0.737859I	2.94140 + 5.54948I	0
b = -0.72078 - 1.27260I		
u = -0.720684 - 0.323222I		
a = -1.026560 + 0.737859I	2.94140 - 5.54948I	0
b = -0.72078 + 1.27260I		
u = 0.466862 + 1.125240I		
a = -1.14857 + 1.28762I	2.58142 + 6.54092I	0
b = -0.792186 - 0.704403I		
u = 0.466862 - 1.125240I		
a = -1.14857 - 1.28762I	2.58142 - 6.54092I	0
b = -0.792186 + 0.704403I		
u = 0.624112 + 1.051420I		
a = 1.10605 - 0.93099I	4.68913 - 0.45476I	0
b = 0.388091 + 0.899336I		
u = 0.624112 - 1.051420I		
a = 1.10605 + 0.93099I	4.68913 + 0.45476I	0
b = 0.388091 - 0.899336I		
u = -0.526396 + 0.561216I		
a = -1.86509 - 0.25062I	5.92930 - 1.34148I	0
b = -1.257360 + 0.359860I		
u = -0.526396 - 0.561216I		
a = -1.86509 + 0.25062I	5.92930 + 1.34148I	0
b = -1.257360 - 0.359860I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.734683 + 0.987861I		
a = -0.050324 - 0.915854I	5.41367 + 7.62668I	0
b = 0.315532 - 0.525973I		
u = 0.734683 - 0.987861I		
a = -0.050324 + 0.915854I	5.41367 - 7.62668I	0
b = 0.315532 + 0.525973I		
u = -0.645692 + 1.059480I		
a = -1.78732 - 0.20482I	1.34897 - 10.14670I	0
b = -0.78428 + 1.37915I		
u = -0.645692 - 1.059480I		
a = -1.78732 + 0.20482I	1.34897 + 10.14670I	0
b = -0.78428 - 1.37915I		
u = -0.558326 + 1.110590I		
a = 1.63188 + 0.24669I	-2.43708 - 4.43907I	0
b = 0.127459 - 0.998161I		
u = -0.558326 - 1.110590I		
a = 1.63188 - 0.24669I	-2.43708 + 4.43907I	0
b = 0.127459 + 0.998161I		
u = -0.386158 + 1.183130I		
a = 1.53230 + 0.80555I	-0.97659 - 7.06232I	0
b = 0.754290 - 0.873124I		
u = -0.386158 - 1.183130I		
a = 1.53230 - 0.80555I	-0.97659 + 7.06232I	0
b = 0.754290 + 0.873124I		
u = 0.598716 + 1.091230I		
a = 0.741163 - 0.769460I	-0.95123 + 8.64684I	0
b = 1.048400 - 0.267201I		
u = 0.598716 - 1.091230I		
a = 0.741163 + 0.769460I	-0.95123 - 8.64684I	0
b = 1.048400 + 0.267201I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.591098 + 1.097700I		
a = -1.85741 + 0.49004I	-2.27551 + 9.22283I	0
b = -0.61582 - 1.34571I		
u = 0.591098 - 1.097700I		
a = -1.85741 - 0.49004I	-2.27551 - 9.22283I	0
b = -0.61582 + 1.34571I		
u = -0.555456 + 1.117940I		
a = -1.87785 - 0.92689I	0.63511 - 10.41790I	0
b = -0.72380 + 1.41438I		
u = -0.555456 - 1.117940I		
a = -1.87785 + 0.92689I	0.63511 + 10.41790I	0
b = -0.72380 - 1.41438I		
u = -0.598964 + 1.095590I		
a = 0.703315 + 0.946528I	3.9446 - 13.6046I	0
b = 1.297040 + 0.315015I		
u = -0.598964 - 1.095590I		
a = 0.703315 - 0.946528I	3.9446 + 13.6046I	0
b = 1.297040 - 0.315015I		
u = -0.308397 + 1.213650I		
a = 0.0617268 - 0.1019490I	-1.50068 - 2.16308I	0
b = 0.451809 + 0.980520I		
u = -0.308397 - 1.213650I		
a = 0.0617268 + 0.1019490I	-1.50068 + 2.16308I	0
b = 0.451809 - 0.980520I		
u = 0.529809 + 1.139950I		
a = 1.53069 - 0.12486I	-1.70649 + 3.54591I	0
b = -0.026059 + 0.793127I		
u = 0.529809 - 1.139950I		
a = 1.53069 + 0.12486I	-1.70649 - 3.54591I	0
b = -0.026059 - 0.793127I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.075390 + 1.273190I		
a = 0.340398 - 0.675235I	-6.07274 - 2.25115I	0
b = -0.102613 + 1.238680I		
u = 0.075390 - 1.273190I		
a = 0.340398 + 0.675235I	-6.07274 + 2.25115I	0
b = -0.102613 - 1.238680I		
u = 0.567731 + 0.443149I		
a = -1.27593 + 1.43039I	-0.89122 - 5.63124I	0
b = -0.292054 + 1.241830I		
u = 0.567731 - 0.443149I		
a = -1.27593 - 1.43039I	-0.89122 + 5.63124I	0
b = -0.292054 - 1.241830I		
u = -0.679466 + 1.096420I		
a = 0.559580 + 0.487472I	1.41704 - 2.60645I	0
b = 0.668454 + 0.637480I		
u = -0.679466 - 1.096420I		
a = 0.559580 - 0.487472I	1.41704 + 2.60645I	0
b = 0.668454 - 0.637480I		
u = 0.886631 + 0.953977I		
a = -0.134430 - 0.539825I	5.26370 - 3.43300I	0
b = 0.269339 - 0.777930I		
u = 0.886631 - 0.953977I		
a = -0.134430 + 0.539825I	5.26370 + 3.43300I	0
b = 0.269339 + 0.777930I		
u = 0.656274 + 1.164820I		
a = -1.41021 + 0.29407I	-2.04067 + 11.00890I	0
b = -0.45392 - 1.40970I		
u = 0.656274 - 1.164820I		
a = -1.41021 - 0.29407I	-2.04067 - 11.00890I	0
b = -0.45392 + 1.40970I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.640315 + 1.181560I		
a = 1.76448 + 0.55979I	0.6576 - 20.5856I	0
b = 0.70592 - 1.33255I		
u = -0.640315 - 1.181560I		
a = 1.76448 - 0.55979I	0.6576 + 20.5856I	0
b = 0.70592 + 1.33255I		
u = -0.146827 + 1.336480I		
a = -0.072758 - 0.483193I	-2.83020 + 11.27430I	0
b = 0.484983 + 1.240810I		
u = -0.146827 - 1.336480I		
a = -0.072758 + 0.483193I	-2.83020 - 11.27430I	0
b = 0.484983 - 1.240810I		
u = 0.645400 + 1.184680I		
a = 1.72120 - 0.50615I	-3.9939 + 14.6608I	0
b = 0.632692 + 1.251560I		
u = 0.645400 - 1.184680I		
a = 1.72120 + 0.50615I	-3.9939 - 14.6608I	0
b = 0.632692 - 1.251560I		
u = 0.585627 + 0.273015I		
a = -1.340080 + 0.036599I	5.04701 - 2.33430I	14.6697 + 3.6058I
b = -0.929285 + 0.570884I		
u = 0.585627 - 0.273015I		
a = -1.340080 - 0.036599I	5.04701 + 2.33430I	14.6697 - 3.6058I
b = -0.929285 - 0.570884I		
u = -0.592121 + 1.220270I		
a = -1.169560 - 0.573379I	-3.76157 - 7.38668I	0
b = -0.423759 + 1.185280I		
u = -0.592121 - 1.220270I		
a = -1.169560 + 0.573379I	-3.76157 + 7.38668I	0
b = -0.423759 - 1.185280I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.154588 + 1.371260I		
a = 0.055089 + 0.485475I	-7.55406 - 5.15323I	0
b = 0.392112 - 1.157750I		
u = 0.154588 - 1.371260I		
a = 0.055089 - 0.485475I	-7.55406 + 5.15323I	0
b = 0.392112 + 1.157750I		
u = -0.648359 + 1.241730I		
a = 1.53087 + 0.47268I	0.28944 - 7.65428I	0
b = 0.621845 - 1.012720I		
u = -0.648359 - 1.241730I		
a = 1.53087 - 0.47268I	0.28944 + 7.65428I	0
b = 0.621845 + 1.012720I		
u = -0.179217 + 1.400100I		
a = 0.096298 - 0.947605I	-4.96897 - 3.19396I	0
b = 0.097648 + 0.784942I		
u = -0.179217 - 1.400100I		
a = 0.096298 + 0.947605I	-4.96897 + 3.19396I	0
b = 0.097648 - 0.784942I		
u = 0.558960 + 0.126450I		
a = 1.17289 - 1.54891I	-3.91368 + 0.73164I	-1.161521 - 0.793422I
b = 0.234299 - 1.114390I		
u = 0.558960 - 0.126450I		
a = 1.17289 + 1.54891I	-3.91368 - 0.73164I	-1.161521 + 0.793422I
b = 0.234299 + 1.114390I		
u = -0.566382		
a = 0.832786	1.79126	5.72490
b = -0.100616		
u = -0.30720 + 1.43422I		
a = 0.340251 + 0.401393I	-6.07518 - 2.94551I	0
b = -0.112925 - 1.033040I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.30720 - 1.43422I		
a = 0.340251 - 0.401393I	-6.07518 + 2.94551I	0
b = -0.112925 + 1.033040I		
u = -0.437946 + 0.278853I		
a = 0.17874 + 2.26188I	-1.19734 - 4.89372I	4.41481 + 6.02885I
b = 0.042219 + 1.282240I		
u = -0.437946 - 0.278853I		
a = 0.17874 - 2.26188I	-1.19734 + 4.89372I	4.41481 - 6.02885I
b = 0.042219 - 1.282240I		
u = -0.420408 + 0.235229I		
a = 0.276055 - 0.729433I	0.471378 - 1.039480I	6.84675 + 6.48709I
b = -0.237874 + 0.329361I		
u = -0.420408 - 0.235229I		
a = 0.276055 + 0.729433I	0.471378 + 1.039480I	6.84675 - 6.48709I
b = -0.237874 - 0.329361I		

$$\begin{matrix} \text{II.} \\ I_2^u = \langle 8.83 \times 10^9 u^{43} + 2.85 \times 10^{10} u^{42} + \dots + 4.99 \times 10^9 b + 3.70 \times 10^{10}, \ 5.33 \times 10^{10} u^{43} - 1.40 \times 10^{11} u^{42} + \dots + 4.99 \times 10^9 a - 8.10 \times 10^{10}, \ u^{44} - u^{43} + \dots - 5u + 1 \rangle \end{matrix}$$

(i) Arc colorings

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

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -10.6788u^{43} + 28.1001u^{42} + \dots - 103.108u + 16.2268 \\ -1.76980u^{43} - 5.71158u^{42} + \dots + 34.5415u - 7.41284 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -26.0038u^{43} + 15.2796u^{42} + \dots + 131.350u - 31.6020 \\ 7.53241u^{43} - 1.10771u^{42} + \dots - 33.6298u + 7.29658 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^3 \\ u^5 + u^3 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -8.90902u^{43} + 33.8117u^{42} + \dots - 137.649u + 23.6397 \\ -1.76980u^{43} - 5.71158u^{42} + \dots + 34.5415u - 7.41284 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -17.8553u^{43} + 30.2134u^{42} + \dots - 26.4883u + 3.72155 \\ 9.24027u^{43} - 20.7299u^{42} + \dots + 66.3772u - 9.44318 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 3.14764u^{43} + 17.2758u^{42} + \dots - 185.352u + 33.8212 \\ -14.3476u^{43} + 11.8548u^{42} + \dots + 35.6168u - 9.43295 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -12.8155u^{43} + 22.0132u^{42} + \dots - 8.91018u + 1.63258 \\ 5.44390u^{43} - 15.5538u^{42} + \dots + 62.3290u - 9.34964 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -11.1592u^{43} + 40.9840u^{42} + \dots - 205.341u + 33.4786 \\ 23.4851u^{43} - 36.3767u^{42} + \dots + 44.9311u - 3.86733 \end{pmatrix}$$

(ii) Obstruction class = 1

$$= -\frac{192849487866}{4990744411}u^{43} - \frac{83303496455}{4990744411}u^{42} + \dots + \frac{2009823972600}{4990744411}u - \frac{371947337450}{4990744411}u^{-1}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{44} - 25u^{43} + \dots - 11u + 1$
c_2	$u^{44} + u^{43} + \dots + 5u + 1$
c_3	$u^{44} - 4u^{42} + \dots + 23u + 25$
c_4	$u^{44} + 2u^{43} + \dots - 4u + 1$
c_5	$u^{44} - 2u^{43} + \dots + 74u + 25$
c_6	$u^{44} - u^{43} + \dots - 5u + 1$
c_7	$u^{44} + 15u^{43} + \dots + 7u + 1$
c_8	$u^{44} - 2u^{43} + \dots - 2u^2 + 1$
<i>c</i> ₉	$u^{44} + 3u^{42} + \dots - 4u + 1$
c_{10}	$u^{44} - 15u^{43} + \dots - 7u + 1$
c_{11}	$u^{44} - 6u^{43} + \dots - 8u + 1$
c_{12}	$u^{44} - 2u^{43} + \dots + 4u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{44} + y^{43} + \dots + 11y + 1$
c_2, c_6	$y^{44} + 25y^{43} + \dots + 11y + 1$
c_3	$y^{44} - 8y^{43} + \dots - 3629y + 625$
c_4,c_{12}	$y^{44} - 34y^{43} + \dots - 14y + 1$
<i>C</i> ₅	$y^{44} - 4y^{43} + \dots + 3274y + 625$
c_7, c_{10}	$y^{44} + 23y^{43} + \dots + 37y + 1$
<i>c</i> ₈	$y^{44} - 16y^{43} + \dots - 4y + 1$
<i>c</i> ₉	$y^{44} + 6y^{43} + \dots + 24y + 1$
c_{11}	$y^{44} - 18y^{43} + \dots + 14y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.308157 + 0.987633I		
a = 1.16862 + 0.93312I	-3.22606 + 3.75156I	2.55999 - 3.15479I
b = -0.21599 - 1.57354I		
u = -0.308157 - 0.987633I		
a = 1.16862 - 0.93312I	-3.22606 - 3.75156I	2.55999 + 3.15479I
b = -0.21599 + 1.57354I		
u = 0.315393 + 1.002290I		
a = 0.311564 + 0.823089I	-5.29368 + 3.15763I	-4.09773 - 5.41114I
b = 0.000777 - 1.252100I		
u = 0.315393 - 1.002290I		
a = 0.311564 - 0.823089I	-5.29368 - 3.15763I	-4.09773 + 5.41114I
b = 0.000777 + 1.252100I		
u = -0.811207 + 0.489422I		
a = -0.380863 - 0.948948I	0.95609 + 4.94263I	8.91748 - 4.91019I
b = -0.463995 - 1.292540I		
u = -0.811207 - 0.489422I		
a = -0.380863 + 0.948948I	0.95609 - 4.94263I	8.91748 + 4.91019I
b = -0.463995 + 1.292540I		
u = 0.551995 + 0.918179I		
a = -0.824676 + 0.819111I	1.74529 + 2.25308I	7.16464 + 0.I
b = -0.947684 + 0.175996I		
u = 0.551995 - 0.918179I		
a = -0.824676 - 0.819111I	1.74529 - 2.25308I	7.16464 + 0.I
b = -0.947684 - 0.175996I		
u = -0.305558 + 1.034290I		
a = 1.91005 + 2.16726I	1.37900 - 7.60672I	0.66870 + 12.81699I
b = 0.351249 - 0.651952I		
u = -0.305558 - 1.034290I		
a = 1.91005 - 2.16726I	1.37900 + 7.60672I	0.66870 - 12.81699I
b = 0.351249 + 0.651952I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.245789 + 0.884474I		
a = 0.27791 - 1.69712I	-4.74341 - 0.88044I	0.889226 + 0.400447I
b = -0.163334 + 1.324920I		
u = 0.245789 - 0.884474I		
a = 0.27791 + 1.69712I	-4.74341 + 0.88044I	0.889226 - 0.400447I
b = -0.163334 - 1.324920I		
u = -0.213057 + 0.880428I		
a = -0.212781 - 0.099889I	-2.65962 - 5.94295I	2.31883 + 8.60007I
b = -0.06661 + 1.47962I		
u = -0.213057 - 0.880428I		
a = -0.212781 + 0.099889I	-2.65962 + 5.94295I	2.31883 - 8.60007I
b = -0.06661 - 1.47962I		
u = -0.479059 + 0.997167I		
a = -0.81176 - 1.41693I	4.08940 - 2.90277I	0. + 6.41959I
b = -1.60442 - 0.17277I		
u = -0.479059 - 0.997167I		
a = -0.81176 + 1.41693I	4.08940 + 2.90277I	0 6.41959I
b = -1.60442 + 0.17277I		
u = 0.871285 + 0.183068I		
a = 0.295474 - 0.420513I	-0.837506 + 0.694451I	-3.73124 + 0.53910I
b = -0.143959 - 0.917305I		
u = 0.871285 - 0.183068I		
a = 0.295474 + 0.420513I	-0.837506 - 0.694451I	-3.73124 - 0.53910I
b = -0.143959 + 0.917305I		
u = -0.273129 + 0.795130I		
a = 2.32282 + 2.13261I	2.30016 + 5.13733I	8.82905 - 4.63431I
b = 0.379363 + 0.497324I		
u = -0.273129 - 0.795130I		
a = 2.32282 - 2.13261I	2.30016 - 5.13733I	8.82905 + 4.63431I
b = 0.379363 - 0.497324I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.735552 + 0.903542I		
a = -0.218764 - 0.441825I	5.21381 - 8.37867I	4.00000 + 9.26873I
b = 0.130785 - 0.413943I		
u = -0.735552 - 0.903542I		
a = -0.218764 + 0.441825I	5.21381 + 8.37867I	4.00000 - 9.26873I
b = 0.130785 + 0.413943I		
u = -0.811075 + 0.857875I		
a = -0.699674 + 0.182942I	5.38331 + 2.57251I	0
b = 0.031035 + 0.488766I		
u = -0.811075 - 0.857875I		
a = -0.699674 - 0.182942I	5.38331 - 2.57251I	0
b = 0.031035 - 0.488766I		
u = -0.451124 + 0.667034I		
a = -1.54989 - 1.13540I	5.20489 - 0.98576I	8.15267 - 3.45564I
b = -1.362930 + 0.228015I		
u = -0.451124 - 0.667034I		
a = -1.54989 + 1.13540I	5.20489 + 0.98576I	8.15267 + 3.45564I
b = -1.362930 - 0.228015I		
u = 0.696382 + 0.971335I		
a = -0.641482 + 0.568672I	1.56607 + 2.26987I	14.6992 + 0.I
b = -0.567542 + 0.498560I		
u = 0.696382 - 0.971335I		
a = -0.641482 - 0.568672I	1.56607 - 2.26987I	14.6992 + 0.I
b = -0.567542 - 0.498560I		
u = 0.515589 + 1.093630I		
a = 1.82107 - 0.24845I	-3.57585 + 3.87439I	0
b = 0.124563 + 0.868536I		
u = 0.515589 - 1.093630I		
a = 1.82107 + 0.24845I	-3.57585 - 3.87439I	0
b = 0.124563 - 0.868536I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.597100 + 1.089810I		
a = -1.82849 - 0.46447I	-0.90931 - 10.19890I	0
b = -0.52934 + 1.45945I		
u = -0.597100 - 1.089810I		
a = -1.82849 + 0.46447I	-0.90931 + 10.19890I	0
b = -0.52934 - 1.45945I		
u = 0.311016 + 0.625703I		
a = 1.82403 - 1.95875I	-1.52816 - 0.17234I	4.03079 + 1.10747I
b = -0.015549 - 0.613118I		
u = 0.311016 - 0.625703I		
a = 1.82403 + 1.95875I	-1.52816 + 0.17234I	4.03079 - 1.10747I
b = -0.015549 + 0.613118I		
u = 0.572521 + 0.394365I		
a = -1.97593 + 0.06581I	3.15409 + 2.92855I	6.03002 - 2.32219I
b = -0.771844 - 0.836458I		
u = 0.572521 - 0.394365I		
a = -1.97593 - 0.06581I	3.15409 - 2.92855I	6.03002 + 2.32219I
b = -0.771844 + 0.836458I		
u = 0.580346 + 1.200560I		
a = -1.58115 + 0.56532I	-0.04185 + 7.52820I	0
b = -0.672883 - 1.046750I		
u = 0.580346 - 1.200560I		
a = -1.58115 - 0.56532I	-0.04185 - 7.52820I	0
b = -0.672883 + 1.046750I		
u = 0.150514 + 1.352220I		
a = -0.157281 + 0.557104I	-6.27108 + 4.02109I	0
b = -0.129821 - 1.126760I		
u = 0.150514 - 1.352220I		
a = -0.157281 - 0.557104I	-6.27108 - 4.02109I	0
b = -0.129821 + 1.126760I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.220429 + 1.392290I		
a = 0.109335 - 0.963032I	-4.95880 + 2.98569I	0
b = -0.116262 + 0.796153I		
u = 0.220429 - 1.392290I		
a = 0.109335 + 0.963032I	-4.95880 - 2.98569I	0
b = -0.116262 - 0.796153I		
u = 0.453757 + 0.195053I		
a = -1.65813 + 1.80893I	3.05324 - 2.78726I	8.38024 + 3.32043I
b = -0.745603 + 0.882162I		
u = 0.453757 - 0.195053I		
a = -1.65813 - 1.80893I	3.05324 + 2.78726I	8.38024 - 3.32043I
b = -0.745603 - 0.882162I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{44} - 25u^{43} + \dots - 11u + 1)$ $\cdot (u^{175} + 84u^{174} + \dots - 21510473u - 1247689)$
c_2	$ (u^{44} + u^{43} + \dots + 5u + 1)(u^{175} - 4u^{174} + \dots + 6175u - 1117) $
c_3	$(u^{44} - 4u^{42} + \dots + 23u + 25)$ $\cdot (u^{175} + 5u^{174} + \dots - 200903543u - 14492227)$
c_4	$(u^{44} + 2u^{43} + \dots - 4u + 1)(u^{175} + u^{174} + \dots + 38u - 1)$
c_5	$(u^{44} - 2u^{43} + \dots + 74u + 25)$ $\cdot (u^{175} - 9u^{174} + \dots + 1244051648u - 87632999)$
c_6	$ (u^{44} - u^{43} + \dots - 5u + 1)(u^{175} - 4u^{174} + \dots + 6175u - 1117) $
c_7	$(u^{44} + 15u^{43} + \dots + 7u + 1)(u^{175} - 14u^{174} + \dots + 444875u - 24751)$
c_8	$ (u^{44} - 2u^{43} + \dots - 2u^2 + 1)(u^{175} - 3u^{174} + \dots - 3228u - 745) $
c_9	$ (u^{44} + 3u^{42} + \dots - 4u + 1)(u^{175} - u^{174} + \dots - 1852932u - 499117) $
c_{10}	$(u^{44} - 15u^{43} + \dots - 7u + 1)(u^{175} - 14u^{174} + \dots + 444875u - 24751)$
c_{11}	$(u^{44} - 6u^{43} + \dots - 8u + 1)(u^{175} + 13u^{174} + \dots - 2u + 97)$
c_{12}	$(u^{44} - 2u^{43} + \dots + 4u + 1)(u^{175} + u^{174} + \dots + 38u - 1)$ 33

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{44} + y^{43} + \dots + 11y + 1)$ $\cdot (y^{175} + 28y^{174} + \dots - 85299694583841y - 1556727840721)$
c_2, c_6	$(y^{44} + 25y^{43} + \dots + 11y + 1)$ $\cdot (y^{175} + 84y^{174} + \dots - 21510473y - 1247689)$
c_3	$(y^{44} - 8y^{43} + \dots - 3629y + 625)$ $\cdot (y^{175} - 37y^{174} + \dots + 10887680210935327y - 210024643419529)$
c_4, c_{12}	$(y^{44} - 34y^{43} + \dots - 14y + 1)(y^{175} - 127y^{174} + \dots - 180y - 1)$
c_5	$(y^{44} - 4y^{43} + \dots + 3274y + 625)$ $\cdot (y^{175} + 27y^{174} + \dots + 136692045245606196y - 7679542513734001)$
c_7, c_{10}	$(y^{44} + 23y^{43} + \dots + 37y + 1)$ $\cdot (y^{175} + 94y^{174} + \dots - 17564282207y - 612612001)$
c_8	$(y^{44} - 16y^{43} + \dots - 4y + 1)$ $\cdot (y^{175} - 29y^{174} + \dots + 14232894y - 555025)$
<i>c</i> ₉	$(y^{44} + 6y^{43} + \dots + 24y + 1)$ $\cdot (y^{175} + 29y^{174} + \dots - 22256433571302y - 249117779689)$
c_{11}	$(y^{44} - 18y^{43} + \dots + 14y + 1)(y^{175} - 27y^{174} + \dots + 580452y - 9409)$