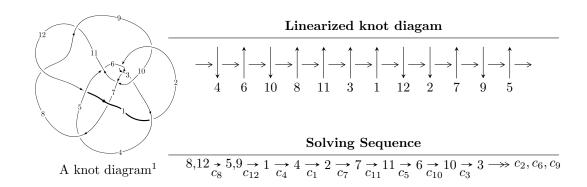
$12a_{0951} \ (K12a_{0951})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -3.27230 \times 10^{1426} u^{193} + 6.48474 \times 10^{1427} u^{192} + \dots + 2.85303 \times 10^{1429} b + 7.63301 \times 10^{1432}, \\ &- 6.63186 \times 10^{1432} u^{193} + 2.10738 \times 10^{1433} u^{192} + \dots + 4.49783 \times 10^{1434} a - 1.59873 \times 10^{1438}, \\ &u^{194} - 5 u^{193} + \dots - 1119128 u + 157651 \rangle \\ I_2^u &= \langle -1.54069 \times 10^{49} u^{46} + 1.60376 \times 10^{50} u^{45} + \dots + 5.91894 \times 10^{49} b - 1.65232 \times 10^{50}, \\ &- 6.13499 \times 10^{50} u^{46} + 7.39476 \times 10^{51} u^{45} + \dots + 5.91894 \times 10^{49} a - 1.44700 \times 10^{52}, \\ &u^{47} - 12 u^{46} + \dots + 58 u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 241 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.
$$I_1^u = \langle -3.27 \times 10^{1426} u^{193} + 6.48 \times 10^{1427} u^{192} + \dots + 2.85 \times 10^{1429} b + 7.63 \times 10^{1432}, \ -6.63 \times 10^{1432} u^{193} + 2.11 \times 10^{1433} u^{192} + \dots + 4.50 \times 10^{1434} a - 1.60 \times 10^{1438}, \ u^{194} - 5u^{193} + \dots - 1119128 u + 157651 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_5 = \begin{pmatrix} 0.0147446u^{193} - 0.0468534u^{192} + \cdots - 24069.2u + 3554.44 \\ 0.00114696u^{193} - 0.0227293u^{192} + \cdots + 19755.5u - 2675.41 \end{pmatrix} \\ a_9 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_1 = \begin{pmatrix} 0.00833197u^{193} - 0.0782035u^{192} + \cdots + 36715.7u - 4821.25 \\ 0.0146802u^{193} - 0.0906046u^{192} + \cdots + 13746.0u - 1660.10 \end{pmatrix} \\ a_4 = \begin{pmatrix} 0.0135976u^{193} - 0.0241240u^{192} + \cdots - 43824.8u + 6229.85 \\ 0.00114696u^{193} - 0.0227293u^{192} + \cdots + 19755.5u - 2675.41 \end{pmatrix} \\ a_2 = \begin{pmatrix} 0.0308401u^{193} - 0.276956u^{192} + \cdots + 121339.u - 16125.2 \\ -0.00477786u^{193} + 0.124624u^{192} + \cdots - 99644.9u + 13722.4 \end{pmatrix} \\ a_7 = \begin{pmatrix} 0.0172265u^{193} - 0.0100294u^{192} + \cdots - 83320.6u + 11703.9 \\ -0.0220203u^{193} + 0.0900415u^{192} + \cdots + 26764.2u - 4108.74 \end{pmatrix} \\ a_{11} = \begin{pmatrix} u \\ u^3 + u \end{pmatrix} \\ a_{6} = \begin{pmatrix} 0.00495432u^{193} + 0.0150898u^{192} + \cdots + 40759.3u + 5655.43 \\ -0.000435455u^{193} - 0.0130372u^{192} + \cdots + 19148.5u - 2622.59 \end{pmatrix} \\ a_{10} = \begin{pmatrix} 0.174327u^{193} - 0.948024u^{192} + \cdots + 74897.4u - 7006.96 \\ -0.0195033u^{193} + 0.214641u^{192} + \cdots + 118724.u + 16042.2 \end{pmatrix} \\ \begin{pmatrix} 0.0328154u^{193} - 0.211872u^{192} + \cdots + 51155.0u - 6320.11 \\ -0.00238623u^{193} + 0.00592457u^{192} + \cdots + 1963.76u - 309.126 \end{pmatrix} \end{array}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.144687u^{193} + 0.778133u^{192} + \cdots 43152.8u + 3187.26$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{194} - 15u^{193} + \dots + 4276480u - 140732$
c_2, c_6	$u^{194} - 2u^{193} + \dots - 115u + 763$
c_3	$u^{194} - 3u^{193} + \dots + 10121514u - 2950781$
<i>c</i> ₄	$u^{194} - 5u^{193} + \dots - 1229250u - 450361$
c_5	$u^{194} - 3u^{193} + \dots + 1930268u - 110863$
c_7	$u^{194} + 3u^{193} + \dots + 39u + 1$
c_8, c_{11}	$u^{194} + 5u^{193} + \dots + 1119128u + 157651$
<i>c</i> 9	$u^{194} - 2u^{193} + \dots + 29446983u - 7136263$
c_{10}	$u^{194} - 6u^{193} + \dots - 4089433u + 368299$
c_{12}	$u^{194} - 3u^{193} + \dots - 1779u - 187$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{194} + 57y^{193} + \dots + 9871873955280y + 19805495824$
c_2, c_6	$y^{194} - 122y^{193} + \dots - 27508693y + 582169$
<i>c</i> ₃	$y^{194} + 43y^{193} + \dots - 281074639663414y + 8707108509961$
c_4	$y^{194} - 49y^{193} + \dots - 4233488708222y + 202825030321$
c_5	$y^{194} + 9y^{193} + \dots - 1148717911644y + 12290604769$
C ₇	$y^{194} + 11y^{193} + \dots - 137y + 1$
c_8,c_{11}	$y^{194} + 145y^{193} + \dots - 983610590218y + 24853837801$
<i>c</i> ₉	$y^{194} + 70y^{193} + \dots + 2458572666392573y + 50926249605169$
c_{10}	$y^{194} - 20y^{193} + \dots - 11280170985833y + 135644153401$
c ₁₂	$y^{194} - 31y^{193} + \dots - 837813y + 34969$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.384187 + 0.923055I		
a = 0.53775 - 1.59785I	0.882578 - 0.354022I	0
b = -0.805099 - 0.707456I		
u = -0.384187 - 0.923055I		
a = 0.53775 + 1.59785I	0.882578 + 0.354022I	0
b = -0.805099 + 0.707456I		
u = 0.547871 + 0.829575I		
a = -0.354733 + 0.297690I	1.28330 - 2.18942I	0
b = 2.06672 + 1.19986I		
u = 0.547871 - 0.829575I		
a = -0.354733 - 0.297690I	1.28330 + 2.18942I	0
b = 2.06672 - 1.19986I		
u = -0.209765 + 0.961427I		
a = 0.65792 - 1.31308I	5.17068 + 4.36065I	0
b = -1.29266 - 0.70184I		
u = -0.209765 - 0.961427I		
a = 0.65792 + 1.31308I	5.17068 - 4.36065I	0
b = -1.29266 + 0.70184I		
u = -0.067146 + 0.979563I		
a = -1.207000 + 0.288332I	-1.39515 + 2.23030I	0
b = 1.65912 + 0.33912I		
u = -0.067146 - 0.979563I		
a = -1.207000 - 0.288332I	-1.39515 - 2.23030I	0
b = 1.65912 - 0.33912I		
u = 0.929594 + 0.230082I		
a = -0.075912 - 0.942965I	-1.90842 - 1.54765I	0
b = 0.446309 - 0.753113I		
u = 0.929594 - 0.230082I		
a = -0.075912 + 0.942965I	-1.90842 + 1.54765I	0
b = 0.446309 + 0.753113I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.317208 + 0.993886I		
a = 0.248922 - 0.356553I	0.40586 + 6.78834I	0
b = 0.37881 - 1.87980I		
u = -0.317208 - 0.993886I		
a = 0.248922 + 0.356553I	0.40586 - 6.78834I	0
b = 0.37881 + 1.87980I		
u = -0.133115 + 1.035690I		
a = 1.42681 - 0.39663I	2.39749 + 7.47414I	0
b = -1.54051 - 0.24913I		
u = -0.133115 - 1.035690I		
a = 1.42681 + 0.39663I	2.39749 - 7.47414I	0
b = -1.54051 + 0.24913I		
u = 0.909210 + 0.258622I		
a = -0.366460 - 0.752034I	-1.87235 - 1.23811I	0
b = -0.068197 - 0.805149I		
u = 0.909210 - 0.258622I		
a = -0.366460 + 0.752034I	-1.87235 + 1.23811I	0
b = -0.068197 + 0.805149I		
u = 0.322789 + 1.004590I		
a = 0.115468 + 0.516083I	0.47698 - 2.62744I	0
b = 0.381496 + 0.979514I		
u = 0.322789 - 1.004590I		
a = 0.115468 - 0.516083I	0.47698 + 2.62744I	0
b = 0.381496 - 0.979514I		
u = -0.970856 + 0.442065I		
a = 0.678964 + 0.191918I	5.49512 - 3.29198I	0
b = 0.740155 - 0.339848I		
u = -0.970856 - 0.442065I		
a = 0.678964 - 0.191918I	5.49512 + 3.29198I	0
b = 0.740155 + 0.339848I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.100011 + 1.073050I		
a = -0.43422 + 1.88249I	9.38363 + 0.54889I	0
b = 0.909644 + 0.229531I		
u = -0.100011 - 1.073050I		
a = -0.43422 - 1.88249I	9.38363 - 0.54889I	0
b = 0.909644 - 0.229531I		
u = 0.183561 + 1.062180I		
a = 0.808569 - 0.277045I	3.45076 - 1.76457I	0
b = -1.74530 - 0.46331I		
u = 0.183561 - 1.062180I		
a = 0.808569 + 0.277045I	3.45076 + 1.76457I	0
b = -1.74530 + 0.46331I		
u = 0.727729 + 0.558414I		
a = -0.411433 - 0.800613I	-1.56282 - 1.54817I	0
b = 0.840718 - 0.714335I		
u = 0.727729 - 0.558414I		
a = -0.411433 + 0.800613I	-1.56282 + 1.54817I	0
b = 0.840718 + 0.714335I		
u = -0.021838 + 1.083020I		
a = -0.87788 + 1.16124I	6.20464 + 3.83618I	0
b = 1.32343 + 0.68730I		
u = -0.021838 - 1.083020I		
a = -0.87788 - 1.16124I	6.20464 - 3.83618I	0
b = 1.32343 - 0.68730I		
u = 0.588558 + 0.909939I		
a = -0.067213 + 0.364998I	1.00993 - 2.04639I	0
b = -0.01545 + 1.58534I		
u = 0.588558 - 0.909939I		
a = -0.067213 - 0.364998I	1.00993 + 2.04639I	0
b = -0.01545 - 1.58534I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.093755 + 1.088810I		
a = 0.94274 - 1.31144I	3.22267 - 0.45617I	0
b = -0.741405 - 0.260404I		
u = 0.093755 - 1.088810I		
a = 0.94274 + 1.31144I	3.22267 + 0.45617I	0
b = -0.741405 + 0.260404I		
u = -0.106457 + 1.097550I		
a = -0.149029 + 0.249252I	5.84091 + 0.86513I	0
b = -0.50404 + 1.96691I		
u = -0.106457 - 1.097550I		
a = -0.149029 - 0.249252I	5.84091 - 0.86513I	0
b = -0.50404 - 1.96691I		
u = -0.024652 + 1.103430I		
a = -0.235632 - 0.868158I	6.52151 + 0.51104I	0
b = 1.10516 - 1.63869I		
u = -0.024652 - 1.103430I		
a = -0.235632 + 0.868158I	6.52151 - 0.51104I	0
b = 1.10516 + 1.63869I		
u = -0.806229 + 0.390588I		
a = -0.715276 - 0.623908I	1.65776 - 0.16374I	0
b = -0.832062 - 0.493893I		
u = -0.806229 - 0.390588I		
a = -0.715276 + 0.623908I	1.65776 + 0.16374I	0
b = -0.832062 + 0.493893I		
u = 0.428627 + 0.784720I		
a = -0.22687 + 1.60637I	0.53364 - 5.06652I	0
b = -0.789215 + 0.751485I		
u = 0.428627 - 0.784720I		
a = -0.22687 - 1.60637I	0.53364 + 5.06652I	0
b = -0.789215 - 0.751485I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.697781 + 0.548563I		
a = -1.136800 + 0.567887I	-0.31010 + 4.61607I	0
b = -0.598221 + 0.555474I		
u = -0.697781 - 0.548563I		
a = -1.136800 - 0.567887I	-0.31010 - 4.61607I	0
b = -0.598221 - 0.555474I		
u = -0.113001 + 1.110790I		
a = 1.46316 + 1.42866I	2.88948 + 5.70871I	0
b = -0.591997 - 0.029070I		
u = -0.113001 - 1.110790I		
a = 1.46316 - 1.42866I	2.88948 - 5.70871I	0
b = -0.591997 + 0.029070I		
u = 0.184699 + 1.106530I		
a = 0.478732 + 0.748414I	3.96498 - 6.97076I	0
b = -1.74322 + 1.17361I		
u = 0.184699 - 1.106530I		
a = 0.478732 - 0.748414I	3.96498 + 6.97076I	0
b = -1.74322 - 1.17361I		
u = 1.128180 + 0.151128I		
a = 0.607242 + 0.594696I	-1.30042 + 3.17379I	0
b = 0.783317 + 0.563490I		
u = 1.128180 - 0.151128I		
a = 0.607242 - 0.594696I	-1.30042 - 3.17379I	0
b = 0.783317 - 0.563490I		
u = -0.268237 + 0.805354I		
a = 0.327458 + 1.047400I	5.12044 - 3.25393I	0
b = 0.873437 - 0.213738I		
u = -0.268237 - 0.805354I		
a = 0.327458 - 1.047400I	5.12044 + 3.25393I	0
b = 0.873437 + 0.213738I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.410483 + 1.081760I		
a = -0.186288 + 0.393603I	4.42633 + 12.80160I	0
b = -0.45581 + 1.88365I		
u = -0.410483 - 1.081760I		
a = -0.186288 - 0.393603I	4.42633 - 12.80160I	0
b = -0.45581 - 1.88365I		
u = 0.106512 + 1.153680I		
a = -0.61325 - 1.89560I	8.66222 - 0.88413I	0
b = 0.602464 - 0.150181I		
u = 0.106512 - 1.153680I		
a = -0.61325 + 1.89560I	8.66222 + 0.88413I	0
b = 0.602464 + 0.150181I		
u = 0.272154 + 1.132360I		
a = 0.08019 - 1.70009I	8.57265 - 0.97336I	0
b = 0.705381 - 0.131388I		
u = 0.272154 - 1.132360I		
a = 0.08019 + 1.70009I	8.57265 + 0.97336I	0
b = 0.705381 + 0.131388I		
u = -1.165750 + 0.016804I		
a = 0.612918 + 0.717723I	-1.26176 + 9.55015I	0
b = 0.909049 + 0.816394I		
u = -1.165750 - 0.016804I		
a = 0.612918 - 0.717723I	-1.26176 - 9.55015I	0
b = 0.909049 - 0.816394I		
u = -0.187968 + 1.153950I		
a = 1.41627 + 0.02807I	6.19578 + 3.16235I	0
b = -0.858920 - 0.338392I		
u = -0.187968 - 1.153950I		
a = 1.41627 - 0.02807I	6.19578 - 3.16235I	0
b = -0.858920 + 0.338392I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.046994 + 1.174320I		
a = 0.356754 - 1.000260I	6.84747 - 3.47433I	0
b = -0.901498 - 0.025037I		
u = 0.046994 - 1.174320I		
a = 0.356754 + 1.000260I	6.84747 + 3.47433I	0
b = -0.901498 + 0.025037I		
u = -0.360883 + 1.119560I		
a = -0.58212 + 1.33785I	-1.74834 + 5.54437I	0
b = 0.944194 + 0.894544I		
u = -0.360883 - 1.119560I		
a = -0.58212 - 1.33785I	-1.74834 - 5.54437I	0
b = 0.944194 - 0.894544I		
u = 1.175870 + 0.039345I		
a = -0.301766 + 0.532082I	-0.63520 - 2.80694I	0
b = -0.837138 + 0.991374I		
u = 1.175870 - 0.039345I		
a = -0.301766 - 0.532082I	-0.63520 + 2.80694I	0
b = -0.837138 - 0.991374I		
u = -0.710347 + 0.406679I		
a = 0.824024 - 0.834864I	2.38127 - 8.54256I	0
b = -1.07466 - 0.93656I		
u = -0.710347 - 0.406679I		
a = 0.824024 + 0.834864I	2.38127 + 8.54256I	0
b = -1.07466 + 0.93656I		
u = -0.190968 + 1.172120I		
a = -1.33436 - 1.24094I	7.14634 + 11.85640I	0
b = 0.654821 + 0.028846I		
u = -0.190968 - 1.172120I		
a = -1.33436 + 1.24094I	7.14634 - 11.85640I	0
b = 0.654821 - 0.028846I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.665458 + 0.984766I		
a = 0.228943 + 0.394990I	-0.11278 - 4.00020I	0
b = -0.088578 + 0.984599I		
u = 0.665458 - 0.984766I		
a = 0.228943 - 0.394990I	-0.11278 + 4.00020I	0
b = -0.088578 - 0.984599I		
u = -0.026484 + 1.199200I		
a = 0.037826 + 0.244754I	5.71665 + 5.06428I	0
b = -1.73820 + 0.38167I		
u = -0.026484 - 1.199200I		
a = 0.037826 - 0.244754I	5.71665 - 5.06428I	0
b = -1.73820 - 0.38167I		
u = -0.302106 + 1.168640I		
a = -0.583894 + 1.223100I	-1.43312 + 5.51895I	0
b = 0.851712 + 1.128200I		
u = -0.302106 - 1.168640I		
a = -0.583894 - 1.223100I	-1.43312 - 5.51895I	0
b = 0.851712 - 1.128200I		
u = 0.418811 + 1.143070I		
a = 0.231939 + 0.871884I	0.76686 - 3.40450I	0
b = -0.593553 + 0.995363I		
u = 0.418811 - 1.143070I		
a = 0.231939 - 0.871884I	0.76686 + 3.40450I	0
b = -0.593553 - 0.995363I		
u = -0.768396 + 0.123348I		
a = -0.88816 - 1.14852I	4.04348 + 5.09661I	0
b = -0.983151 - 0.737691I		
u = -0.768396 - 0.123348I		
a = -0.88816 + 1.14852I	4.04348 - 5.09661I	0
b = -0.983151 + 0.737691I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.211190 + 0.219967I		
a = 0.207834 - 0.710594I	-0.80913 - 4.70060I	0
b = 0.998430 - 0.907812I		
u = 1.211190 - 0.219967I		
a = 0.207834 + 0.710594I	-0.80913 + 4.70060I	0
b = 0.998430 + 0.907812I		
u = -0.016601 + 1.237330I		
a = 0.372544 - 1.192730I	5.98313 - 0.93238I	0
b = -0.295113 - 1.151430I		
u = -0.016601 - 1.237330I		
a = 0.372544 + 1.192730I	5.98313 + 0.93238I	0
b = -0.295113 + 1.151430I		
u = -0.760502 + 0.009749I		
a = -0.98454 + 1.42877I	-0.97472 - 8.07711I	0
b = -0.489014 + 0.715572I		
u = -0.760502 - 0.009749I		
a = -0.98454 - 1.42877I	-0.97472 + 8.07711I	0
b = -0.489014 - 0.715572I		
u = -0.625148 + 0.422116I		
a = 1.36027 - 0.57232I	-3.98732 - 1.76256I	0
b = 0.700287 - 0.717317I		
u = -0.625148 - 0.422116I		
a = 1.36027 + 0.57232I	-3.98732 + 1.76256I	0
b = 0.700287 + 0.717317I		
u = 0.480325 + 1.153660I	2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
a = 0.021123 - 0.311255I	2.18953 - 3.09823I	0
b = 0.04944 - 1.63014I		
u = 0.480325 - 1.153660I	0.10050 + 0.00005	
a = 0.021123 + 0.311255I	2.18953 + 3.09823I	0
b = 0.04944 + 1.63014I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.072535 + 1.251720I		
a = -1.286300 - 0.585761I	4.31899 - 2.92255I	0
b = 0.714844 - 0.016193I		
u = 0.072535 - 1.251720I		
a = -1.286300 + 0.585761I	4.31899 + 2.92255I	0
b = 0.714844 + 0.016193I		
u = -0.082900 + 0.727312I		
a = 0.254407 - 0.031281I	-1.89677 - 1.12936I	0
b = 0.871211 - 0.957883I		
u = -0.082900 - 0.727312I		
a = 0.254407 + 0.031281I	-1.89677 + 1.12936I	0
b = 0.871211 + 0.957883I		
u = 0.840035 + 0.953340I		
a = 0.291724 + 0.641259I	-0.37450 - 4.51549I	0
b = -0.875398 + 1.052420I		
u = 0.840035 - 0.953340I		
a = 0.291724 - 0.641259I	-0.37450 + 4.51549I	0
b = -0.875398 - 1.052420I		
u = 0.547766 + 0.463046I		
a = -0.625553 - 0.307190I	-1.50224 - 1.03964I	0
b = 0.204842 - 0.802732I		
u = 0.547766 - 0.463046I		
a = -0.625553 + 0.307190I	-1.50224 + 1.03964I	0
b = 0.204842 + 0.802732I		
u = 0.702208 + 0.130283I		
a = 0.24643 + 2.03053I	0.202571 - 0.521125I	0
b = -0.006197 + 0.173515I		
u = 0.702208 - 0.130283I		
a = 0.24643 - 2.03053I	0.202571 + 0.521125I	0
b = -0.006197 - 0.173515I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.359776 + 0.610937I		
a = -0.720232 + 0.391435I	1.41377 - 5.58523I	0
b = -0.986519 + 0.632007I		
u = -0.359776 - 0.610937I		
a = -0.720232 - 0.391435I	1.41377 + 5.58523I	0
b = -0.986519 - 0.632007I		
u = 0.251853 + 1.271210I		
a = -1.38115 + 1.26388I	4.22314 - 3.17287I	0
b = 0.494968 + 0.291638I		
u = 0.251853 - 1.271210I		
a = -1.38115 - 1.26388I	4.22314 + 3.17287I	0
b = 0.494968 - 0.291638I		
u = -1.297970 + 0.139898I		
a = -0.468962 - 0.727736I	2.1456 + 15.1856I	0
b = -0.913762 - 0.866259I		
u = -1.297970 - 0.139898I		
a = -0.468962 + 0.727736I	2.1456 - 15.1856I	0
b = -0.913762 + 0.866259I		
u = -1.233470 + 0.427832I		
a = 0.454725 + 0.407824I	4.61090 - 5.19346I	0
b = 0.735861 + 0.578421I		
u = -1.233470 - 0.427832I		
a = 0.454725 - 0.407824I	4.61090 + 5.19346I	0
b = 0.735861 - 0.578421I		
u = -0.414096 + 1.248100I		
a = 0.138946 + 0.993040I	10.21770 + 0.70258I	0
b = 0.932244 + 0.213064I		
u = -0.414096 - 1.248100I		
a = 0.138946 - 0.993040I	10.21770 - 0.70258I	0
b = 0.932244 - 0.213064I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.249490 + 0.412649I		
a = -0.296226 + 0.739253I	-1.24339 - 5.80177I	0
b = -0.761421 + 0.908298I		
u = 1.249490 - 0.412649I		
a = -0.296226 - 0.739253I	-1.24339 + 5.80177I	0
b = -0.761421 - 0.908298I		
u = -0.419821 + 1.259760I		
a = 0.352868 - 0.923914I	6.07589 + 3.79535I	0
b = -1.35476 - 0.81270I		
u = -0.419821 - 1.259760I		
a = 0.352868 + 0.923914I	6.07589 - 3.79535I	0
b = -1.35476 + 0.81270I		
u = -0.503298 + 0.443010I		
a = -1.091320 + 0.888213I	-1.12823 - 3.35588I	0
b = 1.012330 + 0.825407I		
u = -0.503298 - 0.443010I		
a = -1.091320 - 0.888213I	-1.12823 + 3.35588I	0
b = 1.012330 - 0.825407I		
u = 0.111752 + 1.335660I		
a = -0.325930 - 0.429744I	3.71292 - 5.38315I	0
b = -0.158050 - 0.467323I		
u = 0.111752 - 1.335660I		
a = -0.325930 + 0.429744I	3.71292 + 5.38315I	0
b = -0.158050 + 0.467323I		
u = 0.310430 + 1.304300I		
a = -0.107477 - 0.196035I	3.74861 - 1.88856I	0
b = 1.112300 + 0.219170I		
u = 0.310430 - 1.304300I		
a = -0.107477 + 0.196035I	3.74861 + 1.88856I	0
b = 1.112300 - 0.219170I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.249403 + 1.318280I		
a = -1.136310 - 0.515109I	3.93321 - 2.95145I	0
b = 0.559022 - 0.095457I		
u = 0.249403 - 1.318280I		
a = -1.136310 + 0.515109I	3.93321 + 2.95145I	0
b = 0.559022 + 0.095457I		
u = -0.371051 + 1.295890I		
a = 0.488274 - 1.219960I	3.06321 + 12.23260I	0
b = -0.733428 - 0.994335I		
u = -0.371051 - 1.295890I		
a = 0.488274 + 1.219960I	3.06321 - 12.23260I	0
b = -0.733428 + 0.994335I		
u = 0.687106 + 1.169020I		
a = -0.174144 - 1.148920I	1.90151 - 9.52570I	0
b = 1.019620 - 0.829064I		
u = 0.687106 - 1.169020I		
a = -0.174144 + 1.148920I	1.90151 + 9.52570I	0
b = 1.019620 + 0.829064I		
u = 1.359520 + 0.110079I		
a = 0.347257 - 0.613452I	-1.78690 - 3.08668I	0
b = 0.706107 - 0.789411I		
u = 1.359520 - 0.110079I		
a = 0.347257 + 0.613452I	-1.78690 + 3.08668I	0
b = 0.706107 + 0.789411I		
u = 0.627714		
a = -3.33918	0.241205	179.430
b = 0.386685		
u = 1.133610 + 0.776372I		
a = -0.626737 + 0.007368I	0.218432 - 0.873581I	0
b = -0.597815 - 0.288051I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.133610 - 0.776372I		
a = -0.626737 - 0.007368I	0.218432 + 0.873581I	0
b = -0.597815 + 0.288051I		
u = -0.584550 + 0.199271I		
a = 1.54460 - 1.20970I	-4.36629 - 2.10998I	0
b = 0.482623 - 0.743886I		
u = -0.584550 - 0.199271I		
a = 1.54460 + 1.20970I	-4.36629 + 2.10998I	0
b = 0.482623 + 0.743886I		
u = -0.414360 + 1.328310I		
a = 0.504079 - 1.110790I	8.48134 + 9.52303I	0
b = -1.29593 - 0.90694I		
u = -0.414360 - 1.328310I		
a = 0.504079 + 1.110790I	8.48134 - 9.52303I	0
b = -1.29593 + 0.90694I		
u = 0.164196 + 1.387100I		
a = -0.441610 - 0.827845I	9.9531 - 10.5511I	0
b = 1.39023 - 1.12596I		
u = 0.164196 - 1.387100I		
a = -0.441610 + 0.827845I	9.9531 + 10.5511I	0
b = 1.39023 + 1.12596I		
u = 0.51246 + 1.31861I		
a = 0.478273 + 0.862190I	3.45364 - 8.58657I	0
b = -1.44947 + 0.88962I		
u = 0.51246 - 1.31861I		
a = 0.478273 - 0.862190I	3.45364 + 8.58657I	0
b = -1.44947 - 0.88962I		
u = 0.566834 + 0.136008I		
a = -0.62442 + 1.87551I	2.32349 - 6.18138I	0
b = -1.181130 + 0.422491I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.566834 - 0.136008I		
a = -0.62442 - 1.87551I	2.32349 + 6.18138I	0
b = -1.181130 - 0.422491I		
u = 0.37971 + 1.37220I		
a = 0.724553 + 1.125490I	7.13476 - 10.02640I	0
b = -1.275300 + 0.597078I		
u = 0.37971 - 1.37220I		
a = 0.724553 - 1.125490I	7.13476 + 10.02640I	0
b = -1.275300 - 0.597078I		
u = -0.59887 + 1.31408I		
a = -0.173663 + 0.859349I	8.67735 + 9.45526I	0
b = 1.29488 + 0.85398I		
u = -0.59887 - 1.31408I		
a = -0.173663 - 0.859349I	8.67735 - 9.45526I	0
b = 1.29488 - 0.85398I		
u = 0.19008 + 1.44245I		
a = -0.678634 - 0.066541I	3.88138 - 2.92101I	0
b = 0.635592 - 0.058737I		
u = 0.19008 - 1.44245I		
a = -0.678634 + 0.066541I	3.88138 + 2.92101I	0
b = 0.635592 + 0.058737I		
u = -0.64171 + 1.30837I		
a = -0.198924 - 0.789627I	4.40115 + 6.19644I	0
b = -0.927556 - 0.150753I		
u = -0.64171 - 1.30837I		
a = -0.198924 + 0.789627I	4.40115 - 6.19644I	0
b = -0.927556 + 0.150753I		
u = -0.00861 + 1.47835I		
a = 0.991189 + 0.407202I	9.11612 - 6.32148I	0
b = -1.011110 + 0.122065I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.00861 - 1.47835I		
a = 0.991189 - 0.407202I	9.11612 + 6.32148I	0
b = -1.011110 - 0.122065I		
u = -0.54356 + 1.37585I		
a = -0.406851 + 1.055130I	3.1155 + 15.5084I	0
b = 1.31426 + 0.92789I		
u = -0.54356 - 1.37585I		
a = -0.406851 - 1.055130I	3.1155 - 15.5084I	0
b = 1.31426 - 0.92789I		
u = -0.34449 + 1.43929I		
a = -0.380697 + 0.745454I	10.77380 - 0.16755I	0
b = 1.42789 + 0.86979I		
u = -0.34449 - 1.43929I		
a = -0.380697 - 0.745454I	10.77380 + 0.16755I	0
b = 1.42789 - 0.86979I		
u = 0.45816 + 1.41584I		
a = -0.522926 - 0.736634I	3.22490 - 6.64831I	0
b = 0.843719 - 0.757826I		
u = 0.45816 - 1.41584I		
a = -0.522926 + 0.736634I	3.22490 + 6.64831I	0
b = 0.843719 + 0.757826I		
u = 0.56687 + 1.38990I		
a = -0.403015 - 1.001990I	2.73503 - 9.54398I	0
b = 1.21828 - 0.84611I		
u = 0.56687 - 1.38990I		
a = -0.403015 + 1.001990I	2.73503 + 9.54398I	0
b = 1.21828 + 0.84611I		
u = 0.38030 + 1.46882I		
a = 0.597434 + 0.777751I	5.49880 - 4.45808I	0
b = -0.601519 + 0.163654I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.38030 - 1.46882I		
a = 0.597434 - 0.777751I	5.49880 + 4.45808I	0
b = -0.601519 - 0.163654I		
u = -0.061705 + 0.459771I		
a = -0.20987 - 1.60716I	1.370730 + 0.083105I	7.54495 + 1.39802I
b = -0.931820 - 0.438788I		
u = -0.061705 - 0.459771I		
a = -0.20987 + 1.60716I	1.370730 - 0.083105I	7.54495 - 1.39802I
b = -0.931820 + 0.438788I		
u = 0.55974 + 1.44323I		
a = -0.551520 - 0.863441I	4.29975 - 10.91780I	0
b = 1.43343 - 0.77859I		
u = 0.55974 - 1.44323I		
a = -0.551520 + 0.863441I	4.29975 + 10.91780I	0
b = 1.43343 + 0.77859I		
u = -0.56303 + 1.44929I		
a = 0.408568 - 1.003600I	7.1044 + 21.6046I	0
b = -1.32486 - 0.93339I		
u = -0.56303 - 1.44929I		
a = 0.408568 + 1.003600I	7.1044 - 21.6046I	0
b = -1.32486 + 0.93339I		
u = 0.12476 + 1.55055I		
a = 0.163822 + 0.296060I	9.27004 - 5.07834I	0
b = -1.013190 + 0.320505I		
u = 0.12476 - 1.55055I		
a = 0.163822 - 0.296060I	9.27004 + 5.07834I	0
b = -1.013190 - 0.320505I		
u = -0.66202 + 1.42996I		
a = 0.120331 + 0.736880I	8.1688 + 12.4503I	0
b = 0.884629 + 0.165263I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.66202 - 1.42996I		
a = 0.120331 - 0.736880I	8.1688 - 12.4503I	0
b = 0.884629 - 0.165263I		
u = -1.02692 + 1.21373I		
a = -0.324542 - 0.223718I	5.66531 + 0.43434I	0
b = -0.693712 + 0.343245I		
u = -1.02692 - 1.21373I		
a = -0.324542 + 0.223718I	5.66531 - 0.43434I	0
b = -0.693712 - 0.343245I		
u = 0.54763 + 1.50190I		
a = 0.017872 + 0.562589I	2.16214 - 2.12605I	0
b = -0.523493 + 0.094720I		
u = 0.54763 - 1.50190I		
a = 0.017872 - 0.562589I	2.16214 + 2.12605I	0
b = -0.523493 - 0.094720I		
u = -0.391687 + 0.008956I		
a = 0.39933 + 1.87492I	3.00334 - 0.88111I	2.85632 - 1.24669I
b = -0.678322 + 0.978301I		
u = -0.391687 - 0.008956I		
a = 0.39933 - 1.87492I	3.00334 + 0.88111I	2.85632 + 1.24669I
b = -0.678322 - 0.978301I		
u = 0.53501 + 1.53323I		
a = 0.377779 + 0.883765I	4.74847 - 12.12830I	0
b = -1.25701 + 0.97456I		
u = 0.53501 - 1.53323I		
a = 0.377779 - 0.883765I	4.74847 + 12.12830I	0
b = -1.25701 - 0.97456I		
u = 0.177351 + 0.329925I		
a = 2.53497 - 2.36908I	1.50904 - 0.78038I	3.07171 - 6.19401I
b = -0.538341 - 0.412115I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.177351 - 0.329925I		
a = 2.53497 + 2.36908I	1.50904 + 0.78038I	3.07171 + 6.19401I
b = -0.538341 + 0.412115I		
u = -0.216112 + 0.265127I		
a = -2.00587 - 3.09987I	4.35306 - 9.97581I	5.77800 + 7.59464I
b = 0.783803 - 0.771644I		
u = -0.216112 - 0.265127I		
a = -2.00587 + 3.09987I	4.35306 + 9.97581I	5.77800 - 7.59464I
b = 0.783803 + 0.771644I		
u = -0.20344 + 1.67456I		
a = -0.147211 + 0.246053I	4.02948 - 3.02154I	0
b = 0.635497 - 0.079837I		
u = -0.20344 - 1.67456I		
a = -0.147211 - 0.246053I	4.02948 + 3.02154I	0
b = 0.635497 + 0.079837I		
u = 0.38688 + 1.65180I		
a = -0.180363 - 0.399760I	3.90945 - 5.67294I	0
b = 0.474235 - 0.289735I		
u = 0.38688 - 1.65180I		
a = -0.180363 + 0.399760I	3.90945 + 5.67294I	0
b = 0.474235 + 0.289735I		
u = 0.163849 + 0.246118I		
a = -1.90561 + 3.02548I	0.61034 - 4.87780I	1.48179 + 5.13755I
b = -0.723585 + 0.817225I		
u = 0.163849 - 0.246118I		
a = -1.90561 - 3.02548I	0.61034 + 4.87780I	1.48179 - 5.13755I
b = -0.723585 - 0.817225I		
u = -0.039210 + 0.276472I		
a = -2.14051 - 2.78508I	4.46809 - 0.07190I	6.31548 - 4.82870I
b = 0.544857 + 0.722370I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.039210 - 0.276472I		
a = -2.14051 + 2.78508I	4.46809 + 0.07190I	6.31548 + 4.82870I
b = 0.544857 - 0.722370I		
u = 0.0953267		
a = 6.70220	1.18727	10.4460
b = -0.927998		
u = -0.78417 + 2.21763I		
a = -0.0308177 - 0.1123120I	6.66775 - 6.66796I	0
b = -0.484002 + 0.162739I		
u = -0.78417 - 2.21763I		
a = -0.0308177 + 0.1123120I	6.66775 + 6.66796I	0
b = -0.484002 - 0.162739I		

II.
$$I_2^u = \langle -1.54 \times 10^{49} u^{46} + 1.60 \times 10^{50} u^{45} + \dots + 5.92 \times 10^{49} b - 1.65 \times 10^{50}, -6.13 \times 10^{50} u^{46} + 7.39 \times 10^{51} u^{45} + \dots + 5.92 \times 10^{49} a - 1.45 \times 10^{52}, \ u^{47} - 12 u^{46} + \dots + 58 u - 1 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 10.3650u^{46} - 124.934u^{45} + \cdots - 8469.72u + 244.470 \\ 0.260298u^{46} - 2.70954u^{45} + \cdots - 42.2900u + 2.79158 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 6.96405u^{46} - 83.3669u^{45} + \cdots - 4619.86u + 101.754 \\ 0.837377u^{46} - 9.57867u^{45} + \cdots - 410.126u + 11.8220 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 10.1047u^{46} - 122.224u^{45} + \cdots - 8427.43u + 241.678 \\ 0.260298u^{46} - 2.70954u^{45} + \cdots - 42.2900u + 2.79158 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 2.43023u^{46} - 29.2507u^{45} + \cdots - 452.101u - 28.8720 \\ 0.199823u^{46} - 1.55931u^{45} + \cdots - 489.511u + 13.5169 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -14.4700u^{46} + 175.815u^{45} + \cdots + 10547.5u - 320.107 \\ 0.750557u^{46} - 9.31605u^{45} + \cdots - 167.898u + 2.63005 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 9.94727u^{46} - 120.193u^{45} + \cdots - 8475.99u + 244.414 \\ 0.327701u^{46} - 3.54718u^{45} + \cdots - 33.1913u + 2.46332 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -24.0060u^{46} + 286.388u^{45} + \cdots + 19622.2u - 535.853 \\ -1.39343u^{46} + 18.2444u^{45} + \cdots + 598.322u - 18.3564 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -11.4878u^{46} + 136.476u^{45} + \cdots + 10959.6u - 345.678 \\ 0.804090u^{46} - 8.43849u^{45} + \cdots + 223.996u + 4.82130 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-4.84723u^{46} + 56.9310u^{45} + \cdots + 2542.88u 71.0342$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{47} - 4u^{46} + \dots - 18u - 4$
c_2	$u^{47} + u^{46} + \dots - 3u + 1$
c_3	$u^{47} - 50u^{43} + \dots - 4u + 1$
c_4	$u^{47} - 2u^{46} + \dots + 10u + 1$
<i>C</i> ₅	$u^{47} + u^{45} + \dots - 140u + 31$
	$u^{47} - u^{46} + \dots - 3u - 1$
c_7	$u^{47} - 4u^{46} + \dots + 25u + 1$
<i>C</i> ₈	$u^{47} - 12u^{46} + \dots + 58u - 1$
c_9	$u^{47} - u^{46} + \dots + u - 1$
c_{10}	$u^{47} - 3u^{46} + \dots - 3u + 1$
c_{11}	$u^{47} + 12u^{46} + \dots + 58u + 1$
c_{12}	$u^{47} - 2u^{46} + \dots - 9u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{47} + 2y^{46} + \dots + 92y - 16$
c_{2}, c_{6}	$y^{47} - 29y^{46} + \dots + 19y - 1$
<i>c</i> ₃	$y^{47} - 100y^{45} + \dots - 48y - 1$
c_4	$y^{47} - 12y^{46} + \dots + 48y - 1$
c_5	$y^{47} + 2y^{46} + \dots - 7990y - 961$
c_7	$y^{47} + 8y^{46} + \dots + 127y - 1$
c_8,c_{11}	$y^{47} + 42y^{46} + \dots + 1024y - 1$
<i>c</i> ₉	$y^{47} + 47y^{46} + \dots - 39y - 1$
c_{10}	$y^{47} + 17y^{46} + \dots + 27y - 1$
c_{12}	$y^{47} - 18y^{46} + \dots + 3y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.534049 + 0.833234I		
a = 0.320627 - 0.365512I	1.26350 - 2.16340I	0
b = -1.67928 - 1.41256I		
u = 0.534049 - 0.833234I		
a = 0.320627 + 0.365512I	1.26350 + 2.16340I	0
b = -1.67928 + 1.41256I		
u = -0.258667 + 0.983308I		
a = 0.435924 + 1.270710I	1.53014 + 5.85561I	0
b = 0.394765 + 0.943600I		
u = -0.258667 - 0.983308I		
a = 0.435924 - 1.270710I	1.53014 - 5.85561I	0
b = 0.394765 - 0.943600I		
u = -0.118334 + 1.011640I		
a = -0.870962 + 0.758854I	4.20236 + 6.07390I	0
b = 1.75515 + 0.61712I		
u = -0.118334 - 1.011640I		
a = -0.870962 - 0.758854I	4.20236 - 6.07390I	0
b = 1.75515 - 0.61712I		
u = -0.444719 + 0.852802I		
a = 0.148478 - 0.422917I	4.90066 + 1.02014I	0
b = -0.597224 + 0.801204I		
u = -0.444719 - 0.852802I		
a = 0.148478 + 0.422917I	4.90066 - 1.02014I	0
b = -0.597224 - 0.801204I		
u = -0.093741 + 1.045320I		
a = 0.34305 - 2.21818I	8.50396 + 0.43867I	0
b = -0.693426 - 0.247834I		
u = -0.093741 - 1.045320I		
a = 0.34305 + 2.21818I	8.50396 - 0.43867I	0
b = -0.693426 + 0.247834I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.927970 + 0.513660I		
a = 0.595604 + 0.249765I	-0.04997 - 1.54327I	0
b = 0.243177 - 0.106938I		
u = 0.927970 - 0.513660I		
a = 0.595604 - 0.249765I	-0.04997 + 1.54327I	0
b = 0.243177 + 0.106938I		
u = 0.344738 + 1.048830I		
a = -0.35400 + 1.73187I	8.98322 - 1.41917I	0
b = -0.856807 + 0.198206I		
u = 0.344738 - 1.048830I		
a = -0.35400 - 1.73187I	8.98322 + 1.41917I	0
b = -0.856807 - 0.198206I		
u = -0.386684 + 1.081490I		
a = -0.347725 - 0.989252I	5.45236 + 11.94070I	0
b = -0.344889 - 1.080460I		
u = -0.386684 - 1.081490I		
a = -0.347725 + 0.989252I	5.45236 - 11.94070I	0
b = -0.344889 + 1.080460I		
u = -0.025208 + 1.162490I		
a = -0.043845 - 0.967961I	6.77755 + 0.15008I	0
b = -0.38751 - 1.56423I		
u = -0.025208 - 1.162490I		
a = -0.043845 + 0.967961I	6.77755 - 0.15008I	0
b = -0.38751 + 1.56423I		
u = 0.293256 + 1.153770I		
a = 0.620348 + 1.253600I	-1.33501 - 5.31999I	0
b = -0.92199 + 1.08251I		
u = 0.293256 - 1.153770I		
a = 0.620348 - 1.253600I	-1.33501 + 5.31999I	0
b = -0.92199 - 1.08251I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.624381 + 1.022350I		
a = 0.097034 - 0.402158I	0.58470 - 2.09304I	0
b = 0.321071 - 1.037770I		
u = 0.624381 - 1.022350I		
a = 0.097034 + 0.402158I	0.58470 + 2.09304I	0
b = 0.321071 + 1.037770I		
u = 1.074440 + 0.634726I		
a = 0.051733 - 0.733301I	0.22880 - 5.39152I	0
b = 1.010200 - 0.975411I		
u = 1.074440 - 0.634726I		
a = 0.051733 + 0.733301I	0.22880 + 5.39152I	0
b = 1.010200 + 0.975411I		
u = -0.177091 + 1.268550I		
a = 0.069550 + 0.339557I	4.63133 - 4.58486I	0
b = 0.981842 + 0.065353I		
u = -0.177091 - 1.268550I		
a = 0.069550 - 0.339557I	4.63133 + 4.58486I	0
b = 0.981842 - 0.065353I		
u = 0.230407 + 1.267340I		
a = -1.48175 + 0.71376I	4.15874 - 3.10287I	0
b = 0.588341 + 0.156913I		
u = 0.230407 - 1.267340I		
a = -1.48175 - 0.71376I	4.15874 + 3.10287I	0
b = 0.588341 - 0.156913I		
u = 0.549471 + 0.330953I		
a = -1.62062 - 0.77428I	-3.90509 + 2.04602I	9.3993 - 11.6781I
b = -0.642120 - 0.716574I		
u = 0.549471 - 0.330953I		
a = -1.62062 + 0.77428I	-3.90509 - 2.04602I	9.3993 + 11.6781I
b = -0.642120 + 0.716574I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.625205		
a = -2.66249	0.206288	-66.4260
b = 0.473018		
u = 1.380870 + 0.184957I		
a = -0.262796 + 0.565309I	-0.78309 - 3.58958I	0
b = -0.802715 + 0.918247I		
u = 1.380870 - 0.184957I		
a = -0.262796 - 0.565309I	-0.78309 + 3.58958I	0
b = -0.802715 - 0.918247I		
u = 0.239130 + 0.538558I		
a = 1.19781 + 0.97004I	-2.67696 - 2.12478I	-6.99504 + 4.06773I
b = -1.40550 + 0.59287I		
u = 0.239130 - 0.538558I		
a = 1.19781 - 0.97004I	-2.67696 + 2.12478I	-6.99504 - 4.06773I
b = -1.40550 - 0.59287I		
u = 0.37853 + 1.38363I		
a = -0.652867 - 1.009510I	6.19564 - 9.72611I	0
b = 1.27979 - 0.73932I		
u = 0.37853 - 1.38363I		
a = -0.652867 + 1.009510I	6.19564 + 9.72611I	0
b = 1.27979 + 0.73932I		
u = 0.13969 + 1.52880I		
a = -0.604899 - 0.151146I	3.66278 - 3.26269I	0
b = 0.574091 - 0.138194I		
u = 0.13969 - 1.52880I		
a = -0.604899 + 0.151146I	3.66278 + 3.26269I	0
b = 0.574091 + 0.138194I		
u = 0.57586 + 1.43387I		
a = 0.447717 + 0.881036I	4.16495 - 10.16420I	0
b = -1.36032 + 0.85104I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.57586 - 1.43387I		
a = 0.447717 - 0.881036I	4.16495 + 10.16420I	0
b = -1.36032 - 0.85104I		
u = 0.42588 + 1.57362I		
a = -0.292379 - 0.443719I	3.62164 - 3.32385I	0
b = 0.617815 - 0.097581I		
u = 0.42588 - 1.57362I		
a = -0.292379 + 0.443719I	3.62164 + 3.32385I	0
b = 0.617815 + 0.097581I		
u = 0.0418232 + 0.0074767I		
a = 3.8926 - 26.4885I	0.73332 - 6.71138I	-0.06568 + 7.58038I
b = 1.110350 - 0.271330I		
u = 0.0418232 - 0.0074767I		
a = 3.8926 + 26.4885I	0.73332 + 6.71138I	-0.06568 - 7.58038I
b = 1.110350 + 0.271330I		
u = -0.56866 + 2.06832I		
a = 0.142605 - 0.067571I	6.49366 - 6.65618I	0
b = -0.421313 + 0.220937I		
u = -0.56866 - 2.06832I		
a = 0.142605 + 0.067571I	6.49366 + 6.65618I	0
b = -0.421313 - 0.220937I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{47} - 4u^{46} + \dots - 18u - 4)$ $\cdot (u^{194} - 15u^{193} + \dots + 4276480u - 140732)$
c_2	$ (u^{47} + u^{46} + \dots - 3u + 1)(u^{194} - 2u^{193} + \dots - 115u + 763) $
c_3	$(u^{47} - 50u^{43} + \dots - 4u + 1)$ $\cdot (u^{194} - 3u^{193} + \dots + 10121514u - 2950781)$
c_4	$(u^{47} - 2u^{46} + \dots + 10u + 1)(u^{194} - 5u^{193} + \dots - 1229250u - 450361)$
c_5	$(u^{47} + u^{45} + \dots - 140u + 31)$ $\cdot (u^{194} - 3u^{193} + \dots + 1930268u - 110863)$
c_6	$ (u^{47} - u^{46} + \dots - 3u - 1)(u^{194} - 2u^{193} + \dots - 115u + 763) $
c_7	$(u^{47} - 4u^{46} + \dots + 25u + 1)(u^{194} + 3u^{193} + \dots + 39u + 1)$
c_8	$(u^{47} - 12u^{46} + \dots + 58u - 1)$ $\cdot (u^{194} + 5u^{193} + \dots + 1119128u + 157651)$
c_9	$ (u^{47} - u^{46} + \dots + u - 1)(u^{194} - 2u^{193} + \dots + 2.94470 \times 10^7 u - 7136263) $
c_{10}	$(u^{47} - 3u^{46} + \dots - 3u + 1)(u^{194} - 6u^{193} + \dots - 4089433u + 368299)$
c_{11}	$(u^{47} + 12u^{46} + \dots + 58u + 1)$ $\cdot (u^{194} + 5u^{193} + \dots + 1119128u + 157651)$
c_{12}	$(u^{47} - 2u^{46} + \dots - 9u - 1)(u^{194} - 3u^{193} + \dots - 1779u - 187)$ 35

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{47} + 2y^{46} + \dots + 92y - 16)$ $\cdot (y^{194} + 57y^{193} + \dots + 9871873955280y + 19805495824)$
c_2, c_6	$(y^{47} - 29y^{46} + \dots + 19y - 1)$ $\cdot (y^{194} - 122y^{193} + \dots - 27508693y + 582169)$
c_3	$(y^{47} - 100y^{45} + \dots - 48y - 1)$ $\cdot (y^{194} + 43y^{193} + \dots - 281074639663414y + 8707108509961)$
c_4	$(y^{47} - 12y^{46} + \dots + 48y - 1)$ $\cdot (y^{194} - 49y^{193} + \dots - 4233488708222y + 202825030321)$
c_5	$(y^{47} + 2y^{46} + \dots - 7990y - 961)$ $\cdot (y^{194} + 9y^{193} + \dots - 1148717911644y + 12290604769)$
c_7	$(y^{47} + 8y^{46} + \dots + 127y - 1)(y^{194} + 11y^{193} + \dots - 137y + 1)$
c_8, c_{11}	$(y^{47} + 42y^{46} + \dots + 1024y - 1)$ $\cdot (y^{194} + 145y^{193} + \dots - 983610590218y + 24853837801)$
c_9	$(y^{47} + 47y^{46} + \dots - 39y - 1)$ $\cdot (y^{194} + 70y^{193} + \dots + 2458572666392573y + 50926249605169)$
c ₁₀	$(y^{47} + 17y^{46} + \dots + 27y - 1)$ $\cdot (y^{194} - 20y^{193} + \dots - 11280170985833y + 135644153401)$
c_{12}	$(y^{47} - 18y^{46} + \dots + 3y - 1)(y^{194} - 31y^{193} + \dots - 837813y + 34969)$