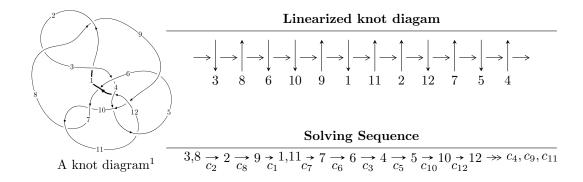
$12a_{0697} (K12a_{0697})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.38429 \times 10^{798} u^{193} + 3.87152 \times 10^{798} u^{192} + \dots + 2.19950 \times 10^{798} b - 4.90381 \times 10^{800}, \\ &- 8.75612 \times 10^{800} u^{193} + 3.14690 \times 10^{801} u^{192} + \dots + 2.64159 \times 10^{801} a + 2.08172 \times 10^{803}, \\ &u^{194} - 4 u^{193} + \dots - 2190 u + 1201 \rangle \\ I_2^u &= \langle 1.01475 \times 10^{22} u^{43} - 2.00856 \times 10^{22} u^{42} + \dots + 3.01682 \times 10^{21} b - 9.17444 \times 10^{21}, \\ &- 6.80246 \times 10^{21} u^{43} + 1.04596 \times 10^{22} u^{42} + \dots + 3.01682 \times 10^{21} a - 1.46523 \times 10^{22}, \ u^{44} - u^{43} + \dots - 5 u + 10^{21} u^{44} + 10^{21} u^{$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 238 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.
$$I_1^u = \langle -1.38 \times 10^{798} u^{193} + 3.87 \times 10^{798} u^{192} + \dots + 2.20 \times 10^{798} b - 4.90 \times 10^{800}, \ -8.76 \times 10^{800} u^{193} + 3.15 \times 10^{801} u^{192} + \dots + 2.64 \times 10^{801} a + 2.08 \times 10^{803}, \ u^{194} - 4u^{193} + \dots - 2190 u + 1201 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{11} = \begin{pmatrix} 0.331471u^{193} - 1.19129u^{192} + \dots + 396.308u - 78.8056 \\ 0.629367u^{193} - 1.76019u^{192} + \dots + 443.354u + 222.952 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.230235u^{193} - 0.229303u^{192} + \dots - 256.608u + 636.997 \\ 2.04507u^{193} - 7.51758u^{192} + \dots + 3825.85u - 1438.51 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.584614u^{193} + 2.07784u^{192} + \dots - 968.110u + 357.563 \\ 1.02690u^{193} - 3.46100u^{192} + \dots + 1531.49u - 314.193 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.316417u^{193} - 0.526957u^{192} + \dots - 603.289u + 840.527 \\ 0.639153u^{193} - 1.96569u^{192} + \dots + 543.699u + 4.23901 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.341625u^{193} - 0.495401u^{192} + \dots - 230.907u + 752.488 \\ 2.03737u^{193} - 7.36267u^{192} + \dots + 3634.73u - 1278.45 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.899157u^{193} - 3.33150u^{192} + \dots + 1895.23u - 716.726 \\ 0.423782u^{193} - 2.40417u^{192} + \dots + 1856.81u - 1315.96 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.636085u^{193} - 2.44361u^{192} + \dots + 1876.72u - 722.342 \\ 0.241514u^{193} - 1.40839u^{192} + \dots + 1124.19u - 730.575 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-2.45492u^{193} + 7.04924u^{192} + \cdots 2454.11u 495.711$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{194} + 76u^{193} + \dots + 17206220u + 1442401$
c_{2}, c_{8}	$u^{194} + 4u^{193} + \dots + 2190u + 1201$
c_3	$16(16u^{194} + 316u^{193} + \dots - 5u + 1)$
c_4	$4(4u^{194} + 6u^{193} + \dots - 180u + 5)$
c_5	$u^{194} - 4u^{193} + \dots + 223613010u + 9397652$
c_6	$u^{194} + 4u^{192} + \dots + 535380u + 59536$
c_7, c_{10}	$4(4u^{194} + 10u^{193} + \dots - 2u + 1)$
<i>c</i> ₉	$u^{194} - 19u^{193} + \dots - 8u + 1$
c_{11}	$4(4u^{194} + 30u^{193} + \dots - 60u + 1)$
c_{12}	$u^{194} + 9u^{193} + \dots + 38561386u + 5467612$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{194} + 20y^{193} + \dots - 483570365808132y + 2080520644801$
c_2, c_8	$y^{194} + 76y^{193} + \dots + 17206220y + 1442401$
<i>c</i> ₃	$256(256y^{194} - 7920y^{193} + \dots - 805y + 1)$
c_4	$16(16y^{194} - 476y^{193} + \dots + 350y + 25)$
<i>C</i> ₅	$y^{194} + 56y^{193} + \dots - 15147856641788764y + 88315863113104$
	$y^{194} + 8y^{193} + \dots - 1377094192048y + 3544535296$
c_7, c_{10}	$16(16y^{194} - 1740y^{193} + \dots - 54y + 1)$
<i>c</i> ₉	$y^{194} - 27y^{193} + \dots + 176y + 1$
c_{11}	$16(16y^{194} - 188y^{193} + \dots - 218y + 1)$
c_{12}	$y^{194} + 27y^{193} + \dots + 83542449688324y + 29894780982544$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.352856 + 0.935267I		
a = -0.142936 + 1.156860I	-2.04059 + 1.29524I	0
b = -1.019070 - 0.047088I		
u = -0.352856 - 0.935267I		
a = -0.142936 - 1.156860I	-2.04059 - 1.29524I	0
b = -1.019070 + 0.047088I		
u = -0.858241 + 0.500645I		
a = -0.871810 + 0.893397I	-1.12610 + 9.17491I	0
b = -0.367726 + 0.658728I		
u = -0.858241 - 0.500645I		
a = -0.871810 - 0.893397I	-1.12610 - 9.17491I	0
b = -0.367726 - 0.658728I		
u = 0.171791 + 0.977728I		
a = -0.081012 - 0.481370I	-2.44322 - 1.19674I	0
b = -1.106520 - 0.429809I		
u = 0.171791 - 0.977728I		
a = -0.081012 + 0.481370I	-2.44322 + 1.19674I	0
b = -1.106520 + 0.429809I		
u = 0.461501 + 0.900448I		
a = 0.409589 - 0.627996I	-3.87773 + 6.12031I	0
b = 4.07565 + 2.62467I		
u = 0.461501 - 0.900448I		
a = 0.409589 + 0.627996I	-3.87773 - 6.12031I	0
b = 4.07565 - 2.62467I		
u = -0.466956 + 0.870291I		
a = 1.03500 + 1.16180I	-1.16359 - 1.62170I	0
b = 2.20505 - 1.18125I		
u = -0.466956 - 0.870291I		
a = 1.03500 - 1.16180I	-1.16359 + 1.62170I	0
b = 2.20505 + 1.18125I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.444555 + 0.881941I		
a = 1.043030 + 0.571776I	-4.76293 + 1.82373I	0
b = 0.02131 + 1.64378I		
u = 0.444555 - 0.881941I		
a = 1.043030 - 0.571776I	-4.76293 - 1.82373I	0
b = 0.02131 - 1.64378I		
u = -0.473853 + 0.899736I		
a = -0.79929 - 1.33512I	-1.25921 - 2.17281I	0
b = -2.15545 + 0.63487I		
u = -0.473853 - 0.899736I		
a = -0.79929 + 1.33512I	-1.25921 + 2.17281I	0
b = -2.15545 - 0.63487I		
u = 0.270488 + 0.939040I		
a = 0.502282 + 1.260000I	-1.60615 - 6.44241I	0
b = -0.078034 + 0.758939I		
u = 0.270488 - 0.939040I		
a = 0.502282 - 1.260000I	-1.60615 + 6.44241I	0
b = -0.078034 - 0.758939I		
u = 0.452051 + 0.858999I		
a = -0.484321 + 0.613005I	-3.72430 - 2.38599I	0
b = -4.38482 - 2.55892I		
u = 0.452051 - 0.858999I		
a = -0.484321 - 0.613005I	-3.72430 + 2.38599I	0
b = -4.38482 + 2.55892I		
u = -0.507795 + 0.897267I		
a = -0.081761 + 1.334530I	-0.84339 - 2.73028I	0
b = 0.456448 - 0.037680I		
u = -0.507795 - 0.897267I		
a = -0.081761 - 1.334530I	-0.84339 + 2.73028I	0
b = 0.456448 + 0.037680I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.527035 + 0.807287I		
a = 1.27885 - 1.51703I	-1.80592 - 2.20740I	0
b = -0.24618 - 1.44845I		
u = -0.527035 - 0.807287I		
a = 1.27885 + 1.51703I	-1.80592 + 2.20740I	0
b = -0.24618 + 1.44845I		
u = -0.545883 + 0.792695I		
a = 0.333347 + 1.343860I	3.09387 - 2.25723I	0
b = 1.25286 - 1.32258I		
u = -0.545883 - 0.792695I		
a = 0.333347 - 1.343860I	3.09387 + 2.25723I	0
b = 1.25286 + 1.32258I		
u = -0.482202 + 0.821143I		
a = -1.157770 - 0.378062I	-0.56656 - 1.32350I	0
b = -1.46674 + 0.26591I		
u = -0.482202 - 0.821143I		
a = -1.157770 + 0.378062I	-0.56656 + 1.32350I	0
b = -1.46674 - 0.26591I		
u = -0.772373 + 0.711577I		
a = 0.530133 + 0.980748I	4.21166 + 5.48024I	0
b = 2.14125 - 0.81703I		
u = -0.772373 - 0.711577I		
a = 0.530133 - 0.980748I	4.21166 - 5.48024I	0
b = 2.14125 + 0.81703I		
u = 0.801307 + 0.687595I		
a = 1.003350 - 0.750219I	8.26907 + 2.25026I	0
b = 2.05837 + 0.73821I		
u = 0.801307 - 0.687595I		
a = 1.003350 + 0.750219I	8.26907 - 2.25026I	0
b = 2.05837 - 0.73821I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.998230 + 0.357435I		
a = -0.904875 - 0.729293I	5.58425 + 6.39972I	0
b = -1.37085 + 0.75442I		
u = -0.998230 - 0.357435I		
a = -0.904875 + 0.729293I	5.58425 - 6.39972I	0
b = -1.37085 - 0.75442I		
u = 0.641551 + 0.685549I		
a = -0.358563 + 1.298770I	3.32422 - 1.81568I	0
b = -1.125070 - 0.630303I		
u = 0.641551 - 0.685549I		
a = -0.358563 - 1.298770I	3.32422 + 1.81568I	0
b = -1.125070 + 0.630303I		
u = -0.554188 + 0.908975I		
a = -1.035570 - 0.647178I	2.70820 - 2.16237I	0
b = -2.84167 + 0.38500I		
u = -0.554188 - 0.908975I		
a = -1.035570 + 0.647178I	2.70820 + 2.16237I	0
b = -2.84167 - 0.38500I		
u = 0.956954 + 0.469120I		
a = -0.756887 + 1.194240I	2.92177 - 7.18756I	0
b = -1.38208 - 0.55142I		
u = 0.956954 - 0.469120I		
a = -0.756887 - 1.194240I	2.92177 + 7.18756I	0
b = -1.38208 + 0.55142I		
u = -0.558625 + 0.911635I		
a = 0.545019 - 0.408731I	0.35179 - 2.52006I	0
b = 0.248754 - 0.554857I		
u = -0.558625 - 0.911635I		
a = 0.545019 + 0.408731I	0.35179 + 2.52006I	0
b = 0.248754 + 0.554857I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.814891 + 0.695923I		
a = -0.589698 + 0.977948I	4.44153 - 1.39602I	0
b = -1.56637 - 0.92940I		
u = 0.814891 - 0.695923I		
a = -0.589698 - 0.977948I	4.44153 + 1.39602I	0
b = -1.56637 + 0.92940I		
u = 0.815899 + 0.697491I		
a = -1.15193 + 0.95053I	6.21880 - 3.92650I	0
b = -1.99896 - 0.55484I		
u = 0.815899 - 0.697491I		
a = -1.15193 - 0.95053I	6.21880 + 3.92650I	0
b = -1.99896 + 0.55484I		
u = 0.540679 + 0.928065I		
a = 0.200205 + 0.648447I	-2.96710 + 6.70397I	0
b = 1.93725 + 0.34871I		
u = 0.540679 - 0.928065I		
a = 0.200205 - 0.648447I	-2.96710 - 6.70397I	0
b = 1.93725 - 0.34871I		
u = 0.965026 + 0.476531I		
a = 0.799543 - 1.088150I	2.0423 - 15.7305I	0
b = 1.51509 + 0.61731I		
u = 0.965026 - 0.476531I		
a = 0.799543 + 1.088150I	2.0423 + 15.7305I	0
b = 1.51509 - 0.61731I		
u = 0.024835 + 1.077440I		
a = -0.929167 - 0.390211I	-6.73950 - 1.83807I	0
b = -1.71772 + 0.82024I		
u = 0.024835 - 1.077440I		
a = -0.929167 + 0.390211I	-6.73950 + 1.83807I	0
b = -1.71772 - 0.82024I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.574746 + 0.715084I		
a = 0.328793 - 0.506058I	0.90332 - 2.01070I	0
b = 0.053976 - 0.445540I		
u = -0.574746 - 0.715084I		
a = 0.328793 + 0.506058I	0.90332 + 2.01070I	0
b = 0.053976 + 0.445540I		
u = -0.328946 + 0.855888I		
a = 0.043193 - 0.995853I	1.47032 - 2.23196I	0
b = -0.129126 - 1.210010I		
u = -0.328946 - 0.855888I		
a = 0.043193 + 0.995853I	1.47032 + 2.23196I	0
b = -0.129126 + 1.210010I		
u = 0.890139 + 0.201687I		
a = -0.647749 + 0.222148I	-0.70524 - 3.34036I	0
b = -0.814819 - 0.036399I		
u = 0.890139 - 0.201687I		
a = -0.647749 - 0.222148I	-0.70524 + 3.34036I	0
b = -0.814819 + 0.036399I		
u = -0.861625 + 0.682657I		
a = 1.158560 + 0.286351I	4.64075 - 1.94310I	0
b = 1.77786 - 0.63784I		
u = -0.861625 - 0.682657I		
a = 1.158560 - 0.286351I	4.64075 + 1.94310I	0
b = 1.77786 + 0.63784I		
u = 0.459598 + 1.000590I		
a = -0.664800 + 0.012834I	-3.86733 + 3.29808I	0
b = -0.898800 + 0.454534I		
u = 0.459598 - 1.000590I		
a = -0.664800 - 0.012834I	-3.86733 - 3.29808I	0
b = -0.898800 - 0.454534I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.529727 + 0.966617I		
a = -0.680338 - 0.118273I	-0.08262 + 7.16741I	0
b = 0.135431 - 0.420079I		
u = 0.529727 - 0.966617I		
a = -0.680338 + 0.118273I	-0.08262 - 7.16741I	0
b = 0.135431 + 0.420079I		
u = -0.056340 + 1.102950I		
a = -0.371392 - 0.769289I	-2.34807 - 1.62864I	0
b = -1.44641 + 0.05833I		
u = -0.056340 - 1.102950I		
a = -0.371392 + 0.769289I	-2.34807 + 1.62864I	0
b = -1.44641 - 0.05833I		
u = -0.950171 + 0.564993I		
a = 0.699550 + 0.799784I	1.83830 + 5.77997I	0
b = 1.76306 - 0.69524I		
u = -0.950171 - 0.564993I		
a = 0.699550 - 0.799784I	1.83830 - 5.77997I	0
b = 1.76306 + 0.69524I		
u = -0.363033 + 1.044210I		
a = 0.029375 + 1.037740I	-2.05100 + 4.55845I	0
b = -0.31375 + 1.92955I		
u = -0.363033 - 1.044210I		
a = 0.029375 - 1.037740I	-2.05100 - 4.55845I	0
b = -0.31375 - 1.92955I		
u = -0.783517 + 0.423177I		
a = -0.883703 - 0.972798I	1.50052 + 6.45762I	0
b = -1.66287 + 1.04127I		
u = -0.783517 - 0.423177I		
a = -0.883703 + 0.972798I	1.50052 - 6.45762I	0
b = -1.66287 - 1.04127I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.786529 + 0.416423I		
a = -0.617898 - 0.770584I	-1.34407 + 5.45592I	0
b = -0.036322 + 0.505914I		
u = 0.786529 - 0.416423I		
a = -0.617898 + 0.770584I	-1.34407 - 5.45592I	0
b = -0.036322 - 0.505914I		
u = 0.446123 + 1.017670I		
a = -0.255886 - 0.681936I	-3.44389 - 0.93394I	0
b = -1.53406 + 0.14590I		
u = 0.446123 - 1.017670I		
a = -0.255886 + 0.681936I	-3.44389 + 0.93394I	0
b = -1.53406 - 0.14590I		
u = -0.543451 + 0.970576I		
a = 0.886522 + 0.730130I	-0.79276 - 6.61650I	0
b = 3.15359 - 1.26327I		
u = -0.543451 - 0.970576I		
a = 0.886522 - 0.730130I	-0.79276 + 6.61650I	0
b = 3.15359 + 1.26327I		
u = 0.610324 + 0.939595I		
a = 1.045980 - 0.459740I	2.57631 + 6.72171I	0
b = 2.44205 + 0.72514I		
u = 0.610324 - 0.939595I		
a = 1.045980 + 0.459740I	2.57631 - 6.72171I	0
b = 2.44205 - 0.72514I		
u = 0.752142 + 0.452326I		
a = 0.137674 + 0.661861I	2.11127 - 2.81409I	0
b = -0.021573 - 0.236399I		
u = 0.752142 - 0.452326I		
a = 0.137674 - 0.661861I	2.11127 + 2.81409I	0
b = -0.021573 + 0.236399I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.435647 + 0.754428I		
a = -0.375545 - 1.008050I	0.75044 - 3.14796I	0
b = -0.535683 - 1.200410I		
u = 0.435647 - 0.754428I		
a = -0.375545 + 1.008050I	0.75044 + 3.14796I	0
b = -0.535683 + 1.200410I		
u = -0.350863 + 1.077150I		
a = -0.673207 - 0.684831I	-2.28589 - 3.35519I	0
b = -1.31873 - 0.83905I		
u = -0.350863 - 1.077150I		
a = -0.673207 + 0.684831I	-2.28589 + 3.35519I	0
b = -1.31873 + 0.83905I		
u = 0.426788 + 1.051820I		
a = -0.090839 + 0.304659I	-4.18409 + 3.39305I	0
b = -0.07841 + 1.49959I		
u = 0.426788 - 1.051820I		
a = -0.090839 - 0.304659I	-4.18409 - 3.39305I	0
b = -0.07841 - 1.49959I		
u = 0.660038 + 0.924385I		
a = -0.827509 - 0.708024I	-3.53015 + 2.60312I	0
b = -0.614171 - 0.454722I		
u = 0.660038 - 0.924385I		
a = -0.827509 + 0.708024I	-3.53015 - 2.60312I	0
b = -0.614171 + 0.454722I		
u = -0.497089 + 1.021890I		
a = 0.811704 + 0.641576I	-1.23386 - 10.99860I	0
b = 2.53333 + 1.37633I		
u = -0.497089 - 1.021890I		
a = 0.811704 - 0.641576I	-1.23386 + 10.99860I	0
b = 2.53333 - 1.37633I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.801772 + 0.316134I		
a = 1.311960 - 0.340023I	1.66785 - 0.26603I	0
b = 0.586322 - 0.321066I		
u = -0.801772 - 0.316134I		
a = 1.311960 + 0.340023I	1.66785 + 0.26603I	0
b = 0.586322 + 0.321066I		
u = 0.700393 + 0.499917I		
a = -0.504691 + 0.263452I	1.86908 - 2.72024I	0
b = -0.103187 - 0.891546I		
u = 0.700393 - 0.499917I		
a = -0.504691 - 0.263452I	1.86908 + 2.72024I	0
b = -0.103187 + 0.891546I		
u = 0.563530 + 0.990930I		
a = -1.252540 + 0.653017I	0.25809 + 11.99180I	0
b = -2.43821 - 0.94346I		
u = 0.563530 - 0.990930I		
a = -1.252540 - 0.653017I	0.25809 - 11.99180I	0
b = -2.43821 + 0.94346I		
u = -0.511096 + 0.685410I		
a = -0.49674 - 1.32758I	0.12768 + 2.28444I	0
b = -2.04518 + 1.36491I		
u = -0.511096 - 0.685410I		
a = -0.49674 + 1.32758I	0.12768 - 2.28444I	0
b = -2.04518 - 1.36491I		
u = -1.165370 + 0.044542I		
a = 1.247400 - 0.243693I	2.29243 - 0.14459I	0
b = 1.241440 + 0.017823I		
u = -1.165370 - 0.044542I		
a = 1.247400 + 0.243693I	2.29243 + 0.14459I	0
b = 1.241440 - 0.017823I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.291541 + 1.137520I		
a = -0.221315 + 0.006459I	-5.18462 - 0.24486I	0
b = -0.399387 + 0.221655I		
u = 0.291541 - 1.137520I		
a = -0.221315 - 0.006459I	-5.18462 + 0.24486I	0
b = -0.399387 - 0.221655I		
u = 0.533299 + 0.619655I		
a = 0.44414 - 1.85659I	1.39225 - 7.49012I	0
b = 1.41938 + 0.27626I		
u = 0.533299 - 0.619655I		
a = 0.44414 + 1.85659I	1.39225 + 7.49012I	0
b = 1.41938 - 0.27626I		
u = -0.674081 + 0.974096I		
a = -0.864381 - 0.594308I	3.38962 - 10.95500I	0
b = -2.61086 + 1.63115I		
u = -0.674081 - 0.974096I		
a = -0.864381 + 0.594308I	3.38962 + 10.95500I	0
b = -2.61086 - 1.63115I		
u = -0.018597 + 1.190760I		
a = 0.789241 + 0.342314I	-7.21799 + 7.18276I	0
b = 1.42120 - 0.49910I		
u = -0.018597 - 1.190760I		
a = 0.789241 - 0.342314I	-7.21799 - 7.18276I	0
b = 1.42120 + 0.49910I		
u = 0.475641 + 0.648035I		
a = 0.946520 + 0.236724I	-2.19920 - 2.38962I	0
b = -0.085388 - 0.726431I		
u = 0.475641 - 0.648035I		
a = 0.946520 - 0.236724I	-2.19920 + 2.38962I	0
b = -0.085388 + 0.726431I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.193741 + 1.183850I		
a = -0.262898 + 0.892229I	-3.51232 + 3.92942I	0
b = -0.818476 - 0.554389I		
u = -0.193741 - 1.183850I		
a = -0.262898 - 0.892229I	-3.51232 - 3.92942I	0
b = -0.818476 + 0.554389I		
u = 0.694226 + 0.980640I		
a = -0.669438 + 0.920136I	7.37060 + 3.35651I	0
b = -2.04031 - 0.90443I		
u = 0.694226 - 0.980640I		
a = -0.669438 - 0.920136I	7.37060 - 3.35651I	0
b = -2.04031 + 0.90443I		
u = 0.308818 + 1.163950I		
a = -0.287603 + 0.363462I	-5.11943 - 0.20016I	0
b = -0.854180 + 0.597152I		
u = 0.308818 - 1.163950I		
a = -0.287603 - 0.363462I	-5.11943 + 0.20016I	0
b = -0.854180 - 0.597152I		
u = 0.705084 + 0.983531I		
a = 0.857073 - 1.066430I	5.33406 + 9.61525I	0
b = 2.13028 + 0.61835I		
u = 0.705084 - 0.983531I		
a = 0.857073 + 1.066430I	5.33406 - 9.61525I	0
b = 2.13028 - 0.61835I		
u = 0.588635 + 1.061140I		
a = 0.194830 - 0.255898I	0.19057 + 7.69336I	0
b = 1.34687 - 0.46141I		
u = 0.588635 - 1.061140I		
a = 0.194830 + 0.255898I	0.19057 - 7.69336I	0
b = 1.34687 + 0.46141I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.702284 + 0.993838I		
a = 0.892985 - 0.557846I	3.51450 + 7.08392I	0
b = 2.54331 + 0.85132I		
u = 0.702284 - 0.993838I		
a = 0.892985 + 0.557846I	3.51450 - 7.08392I	0
b = 2.54331 - 0.85132I		
u = 0.563184 + 1.082840I		
a = -0.526243 - 0.087380I	-3.34309 + 7.92558I	0
b = -0.443054 - 0.075036I		
u = 0.563184 - 1.082840I		
a = -0.526243 + 0.087380I	-3.34309 - 7.92558I	0
b = -0.443054 + 0.075036I		
u = 0.730207 + 0.269410I		
a = 0.269298 + 0.189794I	-1.01201 - 3.30135I	0
b = -0.170148 - 0.015857I		
u = 0.730207 - 0.269410I		
a = 0.269298 - 0.189794I	-1.01201 + 3.30135I	0
b = -0.170148 + 0.015857I		
u = -0.706945 + 0.310011I		
a = 1.240170 + 0.052375I	1.66440 - 0.35187I	0
b = 0.651423 - 0.299002I		
u = -0.706945 - 0.310011I		
a = 1.240170 - 0.052375I	1.66440 + 0.35187I	0
b = 0.651423 + 0.299002I		
u = -1.008580 + 0.706175I		
a = 0.641294 + 0.746726I	1.95638 + 1.36014I	0
b = 1.43228 - 0.53328I		
u = -1.008580 - 0.706175I		
a = 0.641294 - 0.746726I	1.95638 - 1.36014I	0
b = 1.43228 + 0.53328I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.136706 + 1.224090I		
a = 0.471608 - 0.600751I	-5.51796 + 4.03330I	0
b = 0.727639 + 0.639634I		
u = 0.136706 - 1.224090I		
a = 0.471608 + 0.600751I	-5.51796 - 4.03330I	0
b = 0.727639 - 0.639634I		
u = -0.724518 + 0.998585I		
a = -0.315803 - 0.988115I	3.65898 - 3.92264I	0
b = -1.246040 + 0.435773I		
u = -0.724518 - 0.998585I		
a = -0.315803 + 0.988115I	3.65898 + 3.92264I	0
b = -1.246040 - 0.435773I		
u = 0.143138 + 1.228570I		
a = 0.419407 - 0.507859I	-5.87051 - 0.00222I	0
b = 0.545119 + 0.161875I		
u = 0.143138 - 1.228570I		
a = 0.419407 + 0.507859I	-5.87051 + 0.00222I	0
b = 0.545119 - 0.161875I		
u = 0.496875 + 1.133980I		
a = 0.484747 - 0.146259I	-3.65560 + 8.15638I	0
b = 0.635086 + 0.449957I		
u = 0.496875 - 1.133980I		
a = 0.484747 + 0.146259I	-3.65560 - 8.15638I	0
b = 0.635086 - 0.449957I		
u = -0.378530 + 1.186340I		
a = -0.133070 - 0.962640I	-1.80073 - 4.68824I	0
b = -0.051418 - 0.991230I		
u = -0.378530 - 1.186340I		
a = -0.133070 + 0.962640I	-1.80073 + 4.68824I	0
b = -0.051418 + 0.991230I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.313454 + 0.677036I		
a = 0.04273 - 1.67717I	0.17964 + 7.26882I	0
b = 1.00072 + 1.11876I		
u = -0.313454 - 0.677036I		
a = 0.04273 + 1.67717I	0.17964 - 7.26882I	0
b = 1.00072 - 1.11876I		
u = 0.540319 + 1.131560I		
a = 0.050143 + 0.169734I	-3.50534 + 8.10688I	0
b = 0.147863 + 0.520157I		
u = 0.540319 - 1.131560I		
a = 0.050143 - 0.169734I	-3.50534 - 8.10688I	0
b = 0.147863 - 0.520157I		
u = 0.603918 + 1.106710I		
a = 0.388606 + 0.311493I	0.15130 + 7.98524I	0
b = 0.792834 + 0.258179I		
u = 0.603918 - 1.106710I		
a = 0.388606 - 0.311493I	0.15130 - 7.98524I	0
b = 0.792834 - 0.258179I		
u = 1.26520		
a = -0.610970	-0.265156	0
b = -1.83544		
u = -0.616973 + 1.108750I		
a = 0.754256 + 0.625216I	-0.52207 - 11.74650I	0
b = 2.86319 - 0.98382I		
u = -0.616973 - 1.108750I		
a = 0.754256 - 0.625216I	-0.52207 + 11.74650I	0
b = 2.86319 + 0.98382I		
u = -1.119850 + 0.615007I		
a = -0.997390 - 0.166084I	2.68440 - 9.71298I	0
b = -1.70972 + 0.53402I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.119850 - 0.615007I		
a = -0.997390 + 0.166084I	2.68440 + 9.71298I	0
b = -1.70972 - 0.53402I		
u = -0.591211 + 1.138220I		
a = -0.021882 - 0.808842I	-0.73955 - 4.68557I	0
b = -0.676599 - 0.610431I		
u = -0.591211 - 1.138220I		
a = -0.021882 + 0.808842I	-0.73955 + 4.68557I	0
b = -0.676599 + 0.610431I		
u = -0.662558 + 1.101730I		
a = -0.677633 + 0.768503I	-2.9446 - 14.8246I	0
b = -0.296481 + 1.052240I		
u = -0.662558 - 1.101730I		
a = -0.677633 - 0.768503I	-2.9446 + 14.8246I	0
b = -0.296481 - 1.052240I		
u = 0.620880 + 0.331426I		
a = 1.144340 - 0.352340I	1.68508 + 4.28171I	0
b = 1.22568 + 1.35925I		
u = 0.620880 - 0.331426I		
a = 1.144340 + 0.352340I	1.68508 - 4.28171I	0
b = 1.22568 - 1.35925I		
u = -0.713880 + 1.114450I		
a = -0.768570 - 0.569960I	0.11879 - 11.87140I	0
b = -2.39926 + 1.03668I		
u = -0.713880 - 1.114450I		
a = -0.768570 + 0.569960I	0.11879 + 11.87140I	0
b = -2.39926 - 1.03668I		
u = -0.046201 + 1.327280I		
a = -0.565969 - 0.899148I	-4.01361 - 4.39879I	0
b = -1.036020 - 0.235434I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.046201 - 1.327280I		
a = -0.565969 + 0.899148I	-4.01361 + 4.39879I	0
b = -1.036020 + 0.235434I		
u = 0.683065 + 1.144690I		
a = 1.021930 - 0.507645I	0.84448 + 13.15870I	0
b = 2.77876 + 0.72430I		
u = 0.683065 - 1.144690I		
a = 1.021930 + 0.507645I	0.84448 - 13.15870I	0
b = 2.77876 - 0.72430I		
u = -0.011997 + 1.337920I		
a = 0.473575 + 0.870417I	-4.85156 - 12.88550I	0
b = 0.904012 - 0.052590I		
u = -0.011997 - 1.337920I		
a = 0.473575 - 0.870417I	-4.85156 + 12.88550I	0
b = 0.904012 + 0.052590I		
u = 0.795750 + 1.076950I		
a = 0.453998 - 0.341801I	-1.73246 + 7.64738I	0
b = 2.07265 + 1.36340I		
u = 0.795750 - 1.076950I		
a = 0.453998 + 0.341801I	-1.73246 - 7.64738I	0
b = 2.07265 - 1.36340I		
u = 0.689101 + 1.149560I		
a = -0.957485 + 0.548972I	-0.0347 + 21.7552I	0
b = -2.74510 - 0.77034I		
u = 0.689101 - 1.149560I		
a = -0.957485 - 0.548972I	-0.0347 - 21.7552I	0
b = -2.74510 + 0.77034I		
u = -0.302432 + 0.585478I		
a = 1.10025 + 1.28037I	2.21685 - 0.27704I	0
b = 0.208769 - 0.589069I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.302432 - 0.585478I		
a = 1.10025 - 1.28037I	2.21685 + 0.27704I	0
b = 0.208769 + 0.589069I		
u = -0.663650 + 1.173940I		
a = 0.385926 - 1.135850I	-0.88157 - 5.29201I	0
b = -0.079912 - 1.291430I		
u = -0.663650 - 1.173940I		
a = 0.385926 + 1.135850I	-0.88157 + 5.29201I	0
b = -0.079912 + 1.291430I		
u = 0.007816 + 0.648581I		
a = 1.30359 - 0.66834I	-2.27512 - 2.21314I	0
b = -0.043798 - 0.601479I		
u = 0.007816 - 0.648581I		
a = 1.30359 + 0.66834I	-2.27512 + 2.21314I	0
b = -0.043798 + 0.601479I		
u = 0.590825 + 0.260170I		
a = 0.609156 - 0.817765I	-1.22062 - 3.32173I	0
b = -0.097621 - 0.362191I		
u = 0.590825 - 0.260170I		
a = 0.609156 + 0.817765I	-1.22062 + 3.32173I	0
b = -0.097621 + 0.362191I		
u = -0.751966 + 1.144240I		
a = -0.800855 - 0.550420I	0.35416 - 7.94670I	0
b = -2.16653 + 0.64148I		
u = -0.751966 - 1.144240I		
a = -0.800855 + 0.550420I	0.35416 + 7.94670I	0
b = -2.16653 - 0.64148I		
u = -0.669018 + 1.195780I		
a = 0.731300 + 0.562220I	3.04062 - 12.41580I	0
b = 2.54298 - 0.53479I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.669018 - 1.195780I $a = 0.731300 - 0.562220I$ $b = 2.54298 + 0.53479I$	3.04062 + 12.41580I	0
u = -0.608480 + 0.129415I $a = 1.35924 + 0.77725I$ $b = 1.219550 + 0.108287I$	0.707710 - 0.732729I	0
u = -0.608480 - 0.129415I $a = 1.35924 - 0.77725I$ $b = 1.219550 - 0.108287I$	0.707710 + 0.732729I	0
u = 0.58282 + 1.30799I $a = -0.349667 + 0.448965I$ $b = -1.97684 - 0.84151I$	-1.266420 + 0.442397I	0
u = 0.58282 - 1.30799I $a = -0.349667 - 0.448965I$ $b = -1.97684 + 0.84151I$	-1.266420 - 0.442397I	0
u = 0.023627 + 0.552633I $a = -0.83121 - 1.59692I$ $b = -0.517206 - 0.709252I$	-0.92996 - 3.40337I	-1.34435 + 7.86126I
u = 0.023627 - 0.552633I $a = -0.83121 + 1.59692I$ $b = -0.517206 + 0.709252I$	-0.92996 + 3.40337I	-1.34435 - 7.86126I
u = -0.44020 + 1.41329I $a = 0.006174 + 0.711447I$ $b = -0.020520 - 0.319175I$	-0.31191 + 1.82866I	0
u = -0.44020 - 1.41329I $a = 0.006174 - 0.711447I$ $b = -0.020520 + 0.319175I$	-0.31191 - 1.82866I	0
u = 0.418934 + 0.017977I $a = 1.103930 - 0.680406I$ $b = -0.463275 - 0.008875I$	-1.67984 + 0.08020I	-5.56551 + 0.56052I

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.418934 - 0.017977I		
a = 1.103930 + 0.680406I	-1.67984 - 0.08020I	-5.56551 - 0.56052I
b = -0.463275 + 0.008875I		
u = -0.310159 + 0.041589I		
a = -4.05023 + 1.09117I	0.52646 - 7.49728I	-1.09930 + 6.23030I
b = 0.319887 + 0.028448I		
u = -0.310159 - 0.041589I		
a = -4.05023 - 1.09117I	0.52646 + 7.49728I	-1.09930 - 6.23030I
b = 0.319887 - 0.028448I		
u = 2.46294		
a = -0.344824	-0.405902	0
b = -3.18833		

$$II. \\ I_2^u = \langle 1.01 \times 10^{22} u^{43} - 2.01 \times 10^{22} u^{42} + \dots + 3.02 \times 10^{21} b - 9.17 \times 10^{21}, \ -6.80 \times 10^{21} u^{43} + 1.05 \times 10^{22} u^{42} + \dots + 3.02 \times 10^{21} a - 1.47 \times 10^{22}, \ u^{44} - u^{43} + \dots - 5u + 1 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{11} = \begin{pmatrix} 2.25485u^{43} - 3.46710u^{42} + \dots - 17.5762u + 4.85688 \\ -3.36364u^{43} + 6.65789u^{42} + \dots - 18.9533u + 3.04110 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -5.67860u^{43} - 0.875500u^{42} + \dots + 48.3036u - 12.8876 \\ -4.89862u^{43} + 2.28005u^{42} + \dots + 2.94099u - 1.42924 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -9.14611u^{43} + 2.97309u^{42} + \dots + 43.5343u - 11.5165 \\ -1.29436u^{43} + 5.79279u^{42} + \dots - 23.6669u + 5.30669 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -14.8013u^{43} + 11.0195u^{42} + \dots - 12.1993u - 4.37607 \\ -0.140851u^{43} + 8.66600u^{42} + \dots - 51.1072u + 11.0495 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -8.02296u^{43} + 3.95199u^{42} + \dots + 32.0598u - 9.40105 \\ -0.634632u^{43} + 5.66057u^{42} + \dots - 25.7543u + 5.32004 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 7.73601u^{43} - 17.3955u^{42} + \dots + 72.9804u - 16.7135 \\ -6.87700u^{43} - 0.695347u^{42} + \dots + 32.0321u - 7.71159 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -11.5792u^{43} + 0.144119u^{42} + \dots + 14.8593u + 2.06672 \\ -14.3015u^{43} + 14.2403u^{42} + \dots + 43.7714u + 6.55121 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $-\frac{19574817243399657342119}{16885588047673385118990}u^{43} + \frac{2326857481616711218273}{1379117209534637023200}u^{42} + \cdots +$ $\begin{array}{l} \text{(iii) cusp snapes} = -\frac{689558604767318511600}{689558604767318511600} \\ \frac{2815344357111933068603}{172389651191829627900}u - \frac{14325238175222837994799}{1379117209534637023200} \end{array}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{44} - 15u^{43} + \dots - 25u + 1$
c_2	$u^{44} - u^{43} + \dots - 5u + 1$
<i>c</i> ₃	$16(16u^{44} - 332u^{43} + \dots - 56u + 1)$
c_4	$4(4u^{44} + 6u^{43} + \dots - 5u + 1)$
c_5	$u^{44} + u^{43} + \dots - 6u + 4$
c_6	$u^{44} - u^{43} + \dots + 396u - 16$
c_7	$4(4u^{44} - 14u^{43} + \dots - 3u + 1)$
<i>c</i> ₈	$u^{44} + u^{43} + \dots + 5u + 1$
<i>c</i> ₉	$u^{44} - 2u^{43} + \dots - 9u + 1$
c_{10}	$4(4u^{44} + 14u^{43} + \dots + 3u + 1)$
c_{11}	$4(4u^{44} - 6u^{43} + \dots - 7u + 1)$
c_{12}	$u^{44} + 4u^{43} + \dots + 90u + 20$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{44} - 37y^{43} + \dots + 65y + 1$
c_2, c_8	$y^{44} + 15y^{43} + \dots + 25y + 1$
<i>c</i> ₃	$256(256y^{44} + 528y^{43} + \dots - 2084y + 1)$
c_4	$16(16y^{44} - 428y^{43} + \dots - 5y + 1)$
c_5	$y^{44} + 23y^{43} + \dots + 212y + 16$
c_6	$y^{44} - y^{43} + \dots - 204208y + 256$
c_7, c_{10}	$16(16y^{44} - 476y^{43} + \dots - 49y + 1)$
<i>C</i> 9	$y^{44} - 8y^{43} + \dots - 15y + 1$
c_{11}	$16(16y^{44} - 204y^{43} + \dots + 31y + 1)$
c_{12}	$y^{44} - 18y^{43} + \dots - 140y + 400$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.371271 + 0.933564I		
a = -0.099128 - 0.465904I	-4.39505 - 5.78473I	-11.15280 + 3.29334I
b = 2.84323 - 1.88270I		
u = -0.371271 - 0.933564I		
a = -0.099128 + 0.465904I	-4.39505 + 5.78473I	-11.15280 - 3.29334I
b = 2.84323 + 1.88270I		
u = -0.868502 + 0.533585I		
a = -0.706178 - 0.924831I	2.60962 + 5.47274I	4.26679 - 4.58610I
b = -1.69870 + 0.84444I		
u = -0.868502 - 0.533585I		
a = -0.706178 + 0.924831I	2.60962 - 5.47274I	4.26679 + 4.58610I
b = -1.69870 - 0.84444I		
u = -0.452736 + 0.868555I		
a = -0.04550 + 1.83793I	-1.55866 - 2.24862I	-12.7586 - 20.0641I
b = 1.51191 + 0.30358I		
u = -0.452736 - 0.868555I		
a = -0.04550 - 1.83793I	-1.55866 + 2.24862I	-12.7586 + 20.0641I
b = 1.51191 - 0.30358I		
u = 0.218616 + 0.937994I		
a = -1.060670 - 0.020861I	-5.65782 + 0.92627I	-9.42065 + 0.34783I
b = -0.720226 - 1.049790I		
u = 0.218616 - 0.937994I		
a = -1.060670 + 0.020861I	-5.65782 - 0.92627I	-9.42065 - 0.34783I
b = -0.720226 + 1.049790I		
u = 0.174515 + 0.945323I		
a = -0.241156 - 1.038890I	-1.87721 - 2.59071I	-5.99214 + 6.08300I
b = -1.21511 - 0.87280I		
u = 0.174515 - 0.945323I		
a = -0.241156 + 1.038890I	-1.87721 + 2.59071I	-5.99214 - 6.08300I
b = -1.21511 + 0.87280I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.355529 + 0.865307I		
a = 0.218949 + 0.469629I	-4.13022 + 2.75542I	-11.05917 - 8.02015I
b = -3.26235 + 1.87875I		
u = -0.355529 - 0.865307I		
a = 0.218949 - 0.469629I	-4.13022 - 2.75542I	-11.05917 + 8.02015I
b = -3.26235 - 1.87875I		
u = -0.307190 + 1.043970I		
a = -0.656067 - 0.603154I	-1.89832 - 0.93506I	-3.46243 - 1.16252I
b = -1.69247 + 0.58083I		
u = -0.307190 - 1.043970I		
a = -0.656067 + 0.603154I	-1.89832 + 0.93506I	-3.46243 + 1.16252I
b = -1.69247 - 0.58083I		
u = 1.109030 + 0.023537I		
a = 1.305070 + 0.358454I	2.27428 + 0.23897I	1.9428 - 36.9515I
b = 1.151150 - 0.039712I		
u = 1.109030 - 0.023537I		
a = 1.305070 - 0.358454I	2.27428 - 0.23897I	1.9428 + 36.9515I
b = 1.151150 + 0.039712I		
u = 0.473966 + 1.010740I		
a = 0.910847 - 0.614564I	-0.68850 + 10.29750I	0 8.49978I
b = 2.09370 - 0.43101I		
u = 0.473966 - 1.010740I		
a = 0.910847 + 0.614564I	-0.68850 - 10.29750I	0. + 8.49978I
b = 2.09370 + 0.43101I		
u = 0.802383 + 0.802035I		
a = -1.062650 + 0.499433I	2.05590 + 8.97245I	0 8.67985I
b = -1.70674 - 0.95326I		
u = 0.802383 - 0.802035I		
a = -1.062650 - 0.499433I	2.05590 - 8.97245I	0. + 8.67985I
b = -1.70674 + 0.95326I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.835861 + 0.208687I		
a = 0.776714 - 0.208780I	-0.37503 - 3.25751I	11.25288 + 2.29185I
b = 0.603861 - 0.025373I		
u = 0.835861 - 0.208687I		
a = 0.776714 + 0.208780I	-0.37503 + 3.25751I	11.25288 - 2.29185I
b = 0.603861 + 0.025373I		
u = 0.316288 + 1.097140I		
a = -0.497260 + 0.816498I	-2.72758 + 4.24508I	-7.33429 - 7.84499I
b = -0.364683 + 0.812795I		
u = 0.316288 - 1.097140I		
a = -0.497260 - 0.816498I	-2.72758 - 4.24508I	-7.33429 + 7.84499I
b = -0.364683 - 0.812795I		
u = 0.403585 + 0.739424I		
a = 0.02273 + 1.58547I	0.33847 - 6.63406I	0.226294 + 0.452560I
b = 0.068795 - 0.716328I		
u = 0.403585 - 0.739424I		
a = 0.02273 - 1.58547I	0.33847 + 6.63406I	0.226294 - 0.452560I
b = 0.068795 + 0.716328I		
u = -0.107452 + 1.173490I		
a = -0.359808 + 0.895446I	-3.22800 + 3.49556I	0
b = -0.757067 - 0.406223I		
u = -0.107452 - 1.173490I		
a = -0.359808 - 0.895446I	-3.22800 - 3.49556I	0
b = -0.757067 + 0.406223I		
u = 0.277229 + 1.176580I		
a = -0.314237 + 0.477764I	-4.90361 + 0.13214I	0
b = -0.624124 + 0.497374I		
u = 0.277229 - 1.176580I		
a = -0.314237 - 0.477764I	-4.90361 - 0.13214I	0
b = -0.624124 - 0.497374I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.706437 + 1.016640I		
a = 0.319055 + 0.396149I	-1.66785 - 7.09621I	0
b = 2.41021 - 0.70285I		
u = -0.706437 - 1.016640I		
a = 0.319055 - 0.396149I	-1.66785 + 7.09621I	0
b = 2.41021 + 0.70285I		
u = 0.529888 + 1.151810I		
a = -0.190266 + 0.360941I	-3.18849 + 8.15001I	0
b = -0.272936 + 0.239619I		
u = 0.529888 - 1.151810I		
a = -0.190266 - 0.360941I	-3.18849 - 8.15001I	0
b = -0.272936 - 0.239619I		
u = -0.719486		
a = -1.28881	0.187258	-3.38030
b = -1.41026		
u = -0.676477 + 1.109260I		
a = 0.798955 + 0.564107I	0.83742 - 11.23100I	0
b = 2.61510 - 0.97587I		
u = -0.676477 - 1.109260I		
a = 0.798955 - 0.564107I	0.83742 + 11.23100I	0
b = 2.61510 + 0.97587I		
u = 0.630477 + 1.183860I		
a = 0.275986 + 1.116660I	-0.98028 + 5.33973I	0
b = -0.184637 + 1.277250I		
u = 0.630477 - 1.183860I		
a = 0.275986 - 1.116660I	-0.98028 - 5.33973I	0
b = -0.184637 - 1.277250I		
u = -0.027364 + 0.496956I		
a = -1.03990 - 1.18738I	0.54351 - 4.23477I	-0.19384 + 8.79344I
b = 0.186667 - 1.284300I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.027364 - 0.496956I		
a = -1.03990 + 1.18738I	0.54351 + 4.23477I	-0.19384 - 8.79344I
b = 0.186667 + 1.284300I		
u = 0.202704 + 0.285915I		
a = 2.71010 - 1.82204I	2.40743 - 0.47915I	4.78621 + 4.22275I
b = -0.425693 - 0.197579I		
u = 0.202704 - 0.285915I		
a = 2.71010 + 1.82204I	2.40743 + 0.47915I	4.78621 - 4.22275I
b = -0.425693 + 0.197579I		
u = -2.48368		
a = -0.342364	-0.405145	0
b = -3.20953		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{44} - 15u^{43} + \dots - 25u + 1)$ $\cdot (u^{194} + 76u^{193} + \dots + 17206220u + 1442401)$
c_2	$(u^{44} - u^{43} + \dots - 5u + 1)(u^{194} + 4u^{193} + \dots + 2190u + 1201)$
c_3	$256(16u^{44} - 332u^{43} + \dots - 56u + 1)(16u^{194} + 316u^{193} + \dots - 5u + 1)$
c_4	$16(4u^{44} + 6u^{43} + \dots - 5u + 1)(4u^{194} + 6u^{193} + \dots - 180u + 5)$
c_5	$(u^{44} + u^{43} + \dots - 6u + 4)$ $\cdot (u^{194} - 4u^{193} + \dots + 223613010u + 9397652)$
c_6	$(u^{44} - u^{43} + \dots + 396u - 16)(u^{194} + 4u^{192} + \dots + 535380u + 59536)$
c_7	$16(4u^{44} - 14u^{43} + \dots - 3u + 1)(4u^{194} + 10u^{193} + \dots - 2u + 1)$
c_8	$(u^{44} + u^{43} + \dots + 5u + 1)(u^{194} + 4u^{193} + \dots + 2190u + 1201)$
c_9	$(u^{44} - 2u^{43} + \dots - 9u + 1)(u^{194} - 19u^{193} + \dots - 8u + 1)$
c_{10}	$16(4u^{44} + 14u^{43} + \dots + 3u + 1)(4u^{194} + 10u^{193} + \dots - 2u + 1)$
c_{11}	$16(4u^{44} - 6u^{43} + \dots - 7u + 1)(4u^{194} + 30u^{193} + \dots - 60u + 1)$
c_{12}	$(u^{44} + 4u^{43} + \dots + 90u + 20)$ $\cdot (u^{194} + 9u^{193} + \dots + 358561386u + 5467612)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{44} - 37y^{43} + \dots + 65y + 1)$ $\cdot (y^{194} + 20y^{193} + \dots - 483570365808132y + 2080520644801)$
c_2, c_8	$(y^{44} + 15y^{43} + \dots + 25y + 1)$ $\cdot (y^{194} + 76y^{193} + \dots + 17206220y + 1442401)$
c_3	$65536(256y^{44} + 528y^{43} + \dots - 2084y + 1)$ $\cdot (256y^{194} - 7920y^{193} + \dots - 805y + 1)$
c_4	$256(16y^{44} - 428y^{43} + \dots - 5y + 1)$ $\cdot (16y^{194} - 476y^{193} + \dots + 350y + 25)$
c_5	$(y^{44} + 23y^{43} + \dots + 212y + 16)$ $\cdot (y^{194} + 56y^{193} + \dots - 15147856641788764y + 88315863113104)$
c_6	$(y^{44} - y^{43} + \dots - 204208y + 256)$ $\cdot (y^{194} + 8y^{193} + \dots - 1377094192048y + 3544535296)$
c_7, c_{10}	$256(16y^{44} - 476y^{43} + \dots - 49y + 1)$ $\cdot (16y^{194} - 1740y^{193} + \dots - 54y + 1)$
c_9	$ (y^{44} - 8y^{43} + \dots - 15y + 1)(y^{194} - 27y^{193} + \dots + 176y + 1) $
c_{11}	$256(16y^{44} - 204y^{43} + \dots + 31y + 1)$ $\cdot (16y^{194} - 188y^{193} + \dots - 218y + 1)$
c_{12}	$(y^{44} - 18y^{43} + \dots - 140y + 400)$ $\cdot (y^{194} + 27y^{193} + \dots + 83542449688324y + 29894780982544)$