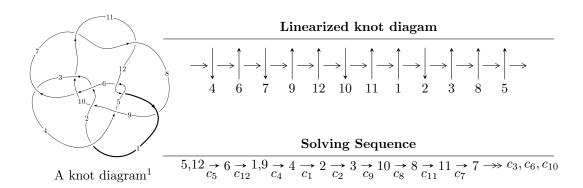
$12a_{0874} (K12a_{0874})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.84886 \times 10^{1402} u^{190} + 3.70297 \times 10^{1402} u^{189} + \dots + 1.63068 \times 10^{1404} b + 1.52642 \times 10^{1408}, \\ &- 2.20329 \times 10^{1408} u^{190} + 6.86665 \times 10^{1407} u^{189} + \dots + 4.27740 \times 10^{1409} a + 4.99679 \times 10^{1413}, \\ &u^{191} + 65 u^{189} + \dots - 7345527 u + 262307 \rangle \\ I_2^u &= \langle 2.77823 \times 10^{73} u^{49} + 1.70736 \times 10^{73} u^{48} + \dots + 7.28128 \times 10^{73} b - 2.44122 \times 10^{74}, \\ &1.03235 \times 10^{75} u^{49} + 1.05630 \times 10^{75} u^{48} + \dots + 7.28128 \times 10^{73} a + 2.83270 \times 10^{75}, \ u^{50} + u^{49} + \dots + 2u + 1 \rangle \end{split}$$

* 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.
$$I_1^u = \langle -1.85 \times 10^{1402} u^{190} + 3.70 \times 10^{1402} u^{189} + \dots + 1.63 \times 10^{1404} b + 1.53 \times 10^{1408}, \ -2.20 \times 10^{1408} u^{190} + 6.87 \times 10^{1407} u^{189} + \dots + 4.28 \times 10^{1409} a + 5.00 \times 10^{1413}, \ u^{191} + 65 u^{189} + \dots - 7345527 u + 262307 \rangle$$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

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

$$a_{9} = \begin{pmatrix} 0.0515100u^{190} - 0.0160533u^{189} + \dots + 326321.u - 11681.9 \\ 0.0113379u^{190} - 0.0227081u^{189} + \dots + 258745.u - 9360.63 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0586402u^{190} + 0.144311u^{189} + \dots - 1.14998 \times 10^{6}u + 42130.4 \\ 0.0514121u^{190} + 0.0955835u^{189} + \dots - 729887.u + 26842.3 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.0935137u^{190} + 0.0724429u^{189} + \dots - 477887.u + 18316.9 \\ 0.0288888u^{190} + 0.05404440u^{189} + \dots - 432033.u + 15860.7 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.0640409u^{190} + 0.0599123u^{189} + \dots - 402318.u + 15175.3 \\ 0.00513012u^{190} + 0.0403217u^{189} + \dots - 347720.u + 12573.8 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0724069u^{190} - 0.0906965u^{189} + \dots + 611737.u - 23521.2 \\ -0.0645735u^{190} - 0.0493419u^{189} + \dots + 237286.u - 9472.89 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.0235649u^{190} - 0.0269071u^{189} + \dots + 364666.u - 13427.4 \\ -0.0166072u^{190} - 0.0335619u^{189} + \dots + 297090.u - 11106.2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.117562u^{190} + 0.0353139u^{189} + \dots - 638817.u + 21444.7 \\ -0.0523487u^{190} + 0.0300864u^{189} + \dots - 450943.u + 15665.9 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.161698u^{190} - 0.0975729u^{189} + \dots + 566662.u - 23287.5 \\ -0.107800u^{190} - 0.0856358u^{189} + \dots + 547467.u - 21437.9 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.0664855u^{190} + 0.106706u^{189} + \cdots 806183.u + 28495.4$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{191} + 8u^{190} + \dots + 12090u - 521$
c_2	$u^{191} + 9u^{189} + \dots + 26856u - 3123$
<i>c</i> ₃	$u^{191} + 8u^{190} + \dots - 40446u - 4563$
C4	$u^{191} + 23u^{189} + \dots - 6088215u - 1128983$
c_5, c_{12}	$u^{191} + 65u^{189} + \dots - 7345527u - 262307$
c_6	$u^{191} + 2u^{190} + \dots - 26u - 1$
c_7, c_{11}	$u^{191} - 4u^{190} + \dots - 644237242u - 33057935$
<i>C</i> ₈	$u^{191} + 4u^{190} + \dots - 14u - 1$
<i>c</i> 9	$u^{191} + 3u^{190} + \dots + 2081393442u - 208449613$
c ₁₀	$u^{191} + 4u^{190} + \dots - 517308u - 92933$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{191} + 18y^{190} + \dots + 7672754y - 271441$
c_2	$y^{191} + 18y^{190} + \dots - 1093867848y - 9753129$
c_3	$y^{191} + 48y^{190} + \dots - 547954632y - 20820969$
c_4	$y^{191} + 46y^{190} + \dots - 71896540462205y - 1274602614289$
c_5,c_{12}	$y^{191} + 130y^{190} + \dots + 5931925730613y - 68804962249$
c_6	$y^{191} - 14y^{190} + \dots + 150y - 1$
c_7, c_{11}	$y^{191} - 140y^{190} + \dots + 148730603959730924y - 1092827066464225$
c_8	$y^{191} + 16y^{190} + \dots - 1830y - 1$
<i>c</i> 9	$y^{191} - 55y^{190} + \dots + 2565423313669011206y - 43451241159849769$
c_{10}	$y^{191} - 24y^{190} + \dots + 682916036430y - 8636542489$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.512846 + 0.859954I		
a = -0.993688 + 0.949455I	1.62279 - 0.11399I	0
b = -0.962967 + 0.962306I		
u = 0.512846 - 0.859954I		
a = -0.993688 - 0.949455I	1.62279 + 0.11399I	0
b = -0.962967 - 0.962306I		
u = 0.978114 + 0.183462I		
a = -0.473054 + 0.830311I	3.58690 + 5.22077I	0
b = 0.619112 + 1.108490I		
u = 0.978114 - 0.183462I		
a = -0.473054 - 0.830311I	3.58690 - 5.22077I	0
b = 0.619112 - 1.108490I		
u = -0.102811 + 1.007920I		
a = -3.34076 - 0.79703I	-1.76777 - 0.26711I	0
b = 0.387767 + 0.166638I		
u = -0.102811 - 1.007920I		
a = -3.34076 + 0.79703I	-1.76777 + 0.26711I	0
b = 0.387767 - 0.166638I		
u = 0.652465 + 0.737354I		
a = 0.11217 + 2.09971I	4.43750 - 0.16046I	0
b = 0.66513 + 1.32327I		
u = 0.652465 - 0.737354I		
a = 0.11217 - 2.09971I	4.43750 + 0.16046I	0
b = 0.66513 - 1.32327I		
u = -0.063400 + 0.979157I		
a = 1.66806 - 1.73143I	-3.41286 - 0.27827I	0
b = -0.255460 - 0.917578I		
u = -0.063400 - 0.979157I		
a = 1.66806 + 1.73143I	-3.41286 + 0.27827I	0
b = -0.255460 + 0.917578I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.334797 + 0.964987I		
a = 0.360107 - 0.486954I	4.04608 - 4.03130I	0
b = 0.727671 - 0.923644I		
u = 0.334797 - 0.964987I		
a = 0.360107 + 0.486954I	4.04608 + 4.03130I	0
b = 0.727671 + 0.923644I		
u = -0.245261 + 0.991590I		
a = 1.08011 + 1.00475I	3.24219 - 4.65971I	0
b = 1.22574 + 1.23155I		
u = -0.245261 - 0.991590I		
a = 1.08011 - 1.00475I	3.24219 + 4.65971I	0
b = 1.22574 - 1.23155I		
u = -0.923435 + 0.314359I		
a = -0.093251 - 0.285405I	-0.56099 - 10.00740I	0
b = 0.862564 - 0.892525I		
u = -0.923435 - 0.314359I		
a = -0.093251 + 0.285405I	-0.56099 + 10.00740I	0
b = 0.862564 + 0.892525I		
u = 0.067457 + 0.965865I		
a = 0.324948 - 0.329435I	-1.96101 - 1.49328I	0
b = 0.745054 + 0.046203I		
u = 0.067457 - 0.965865I		
a = 0.324948 + 0.329435I	-1.96101 + 1.49328I	0
b = 0.745054 - 0.046203I		
u = 0.763160 + 0.575586I		
a = -0.02349 - 1.82947I	4.29389 - 8.15564I	0
b = -0.900127 - 1.006580I		
u = 0.763160 - 0.575586I		
a = -0.02349 + 1.82947I	4.29389 + 8.15564I	0
b = -0.900127 + 1.006580I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.351723 + 0.887873I		
a = -0.176619 + 0.859935I	3.14538 + 1.39324I	0
b = -0.802411 + 0.916053I		
u = 0.351723 - 0.887873I		
a = -0.176619 - 0.859935I	3.14538 - 1.39324I	0
b = -0.802411 - 0.916053I		
u = -0.420057 + 0.958849I		
a = 0.961807 + 0.025499I	0.86595 - 4.74204I	0
b = 1.38879 + 0.46497I		
u = -0.420057 - 0.958849I		
a = 0.961807 - 0.025499I	0.86595 + 4.74204I	0
b = 1.38879 - 0.46497I		
u = 0.196400 + 1.046200I		
a = -1.57183 - 2.09208I	-0.23823 + 11.38630I	0
b = -0.046973 - 0.660831I		
u = 0.196400 - 1.046200I		
a = -1.57183 + 2.09208I	-0.23823 - 11.38630I	0
b = -0.046973 + 0.660831I		
u = 1.053650 + 0.155311I		
a = 0.007011 + 0.199597I	2.09784 - 6.73290I	0
b = -0.767990 + 0.943186I		
u = 1.053650 - 0.155311I		
a = 0.007011 - 0.199597I	2.09784 + 6.73290I	0
b = -0.767990 - 0.943186I		
u = -0.636027 + 0.683004I		
a = 0.423049 - 0.420854I	1.89166 - 2.30214I	0
b = 0.670440 + 0.234980I		
u = -0.636027 - 0.683004I		
a = 0.423049 + 0.420854I	1.89166 + 2.30214I	0
b = 0.670440 - 0.234980I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.203809 + 1.048740I		
a = 1.19180 + 1.78538I	0.87699 + 3.92374I	0
b = -0.145495 + 0.643514I		
u = 0.203809 - 1.048740I		
a = 1.19180 - 1.78538I	0.87699 - 3.92374I	0
b = -0.145495 - 0.643514I		
u = -0.149392 + 1.063000I		
a = 1.03449 - 1.56066I	-1.78563 - 3.42046I	0
b = 0.068658 - 0.906663I		
u = -0.149392 - 1.063000I		
a = 1.03449 + 1.56066I	-1.78563 + 3.42046I	0
b = 0.068658 + 0.906663I		
u = -0.125292 + 0.912031I		
a = -1.01216 + 3.00472I	-0.797459 - 0.334339I	0
b = -0.208639 + 0.568525I		
u = -0.125292 - 0.912031I		
a = -1.01216 - 3.00472I	-0.797459 + 0.334339I	0
b = -0.208639 - 0.568525I		
u = 0.537404 + 0.954621I		
a = -1.153260 + 0.337003I	3.75061 + 4.90766I	0
b = -1.55005 + 0.46691I		
u = 0.537404 - 0.954621I		
a = -1.153260 - 0.337003I	3.75061 - 4.90766I	0
b = -1.55005 - 0.46691I		
u = -0.004471 + 0.901983I		
a = 0.42577 - 2.27412I	-0.81189 + 2.82019I	0
b = -0.73911 - 1.36029I		
u = -0.004471 - 0.901983I		
a = 0.42577 + 2.27412I	-0.81189 - 2.82019I	0
b = -0.73911 + 1.36029I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.094679 + 0.882420I		
a = 0.08973 - 3.33527I	4.88992 + 5.75364I	0
b = -0.16408 - 1.43641I		
u = 0.094679 - 0.882420I		
a = 0.08973 + 3.33527I	4.88992 - 5.75364I	0
b = -0.16408 + 1.43641I		
u = 0.140999 + 0.865493I		
a = -1.97414 - 0.68224I	-1.33549 + 5.07868I	0
b = -2.04877 - 0.50684I		
u = 0.140999 - 0.865493I		
a = -1.97414 + 0.68224I	-1.33549 - 5.07868I	0
b = -2.04877 + 0.50684I		
u = 0.245291 + 1.100020I		
a = -0.154490 - 1.035660I	-0.74677 + 5.69470I	0
b = -1.25904 - 0.73250I		
u = 0.245291 - 1.100020I		
a = -0.154490 + 1.035660I	-0.74677 - 5.69470I	0
b = -1.25904 + 0.73250I		
u = 0.538302 + 0.993486I		
a = 1.122900 - 0.150927I	2.99242 + 13.07300I	0
b = 1.60951 - 0.43310I		
u = 0.538302 - 0.993486I		
a = 1.122900 + 0.150927I	2.99242 - 13.07300I	0
b = 1.60951 + 0.43310I		
u = 0.857824 + 0.132948I		
a = 0.475836 - 0.301211I	7.73115 - 7.16300I	0
b = -0.781613 + 0.549576I		
u = 0.857824 - 0.132948I		
a = 0.475836 + 0.301211I	7.73115 + 7.16300I	0
b = -0.781613 - 0.549576I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.216038 + 0.828045I		
a = 0.056967 + 0.244949I	-0.82493 - 1.48368I	0
b = 1.194940 + 0.498301I		
u = -0.216038 - 0.828045I		
a = 0.056967 - 0.244949I	-0.82493 + 1.48368I	0
b = 1.194940 - 0.498301I		
u = -0.765012 + 0.361285I		
a = 0.382919 + 0.555963I	6.87864 - 2.95599I	0
b = -0.601198 - 0.692072I		
u = -0.765012 - 0.361285I		
a = 0.382919 - 0.555963I	6.87864 + 2.95599I	0
b = -0.601198 + 0.692072I		
u = -1.154930 + 0.023766I		
a = -0.048559 + 0.137207I	6.21670 + 0.18236I	0
b = 0.773974 + 0.296975I		
u = -1.154930 - 0.023766I		
a = -0.048559 - 0.137207I	6.21670 - 0.18236I	0
b = 0.773974 - 0.296975I		
u = 0.270166 + 0.790707I		
a = 1.12593 + 1.26255I	-1.41533 - 2.76220I	0
b = 1.67917 + 0.94477I		
u = 0.270166 - 0.790707I		
a = 1.12593 - 1.26255I	-1.41533 + 2.76220I	0
b = 1.67917 - 0.94477I		
u = -0.307718 + 1.137970I		
a = 0.130836 - 1.390020I	-2.07824 - 2.61344I	0
b = 0.918476 - 0.802985I		
u = -0.307718 - 1.137970I		
a = 0.130836 + 1.390020I	-2.07824 + 2.61344I	0
b = 0.918476 + 0.802985I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.759204 + 0.904304I		
a = -0.870024 + 0.176525I	3.82808 - 3.36796I	0
b = -1.354370 - 0.038262I		
u = -0.759204 - 0.904304I		
a = -0.870024 - 0.176525I	3.82808 + 3.36796I	0
b = -1.354370 + 0.038262I		
u = 0.215667 + 0.781332I		
a = -0.09282 + 2.90289I	3.75123 + 1.22811I	0
b = -0.065974 + 1.301720I		
u = 0.215667 - 0.781332I		
a = -0.09282 - 2.90289I	3.75123 - 1.22811I	0
b = -0.065974 - 1.301720I		
u = -0.070495 + 0.800619I		
a = -0.18103 + 3.27892I	4.33921 + 3.00466I	0
b = -0.37119 + 1.90392I		
u = -0.070495 - 0.800619I		
a = -0.18103 - 3.27892I	4.33921 - 3.00466I	0
b = -0.37119 - 1.90392I		
u = 0.379809 + 1.143710I		
a = 0.12608 - 1.96227I	-4.58008 + 7.62774I	0
b = -0.93069 - 1.46292I		
u = 0.379809 - 1.143710I		
a = 0.12608 + 1.96227I	-4.58008 - 7.62774I	0
b = -0.93069 + 1.46292I		
u = -1.204200 + 0.051631I		
a = -0.134195 + 0.224731I	-1.43643 + 1.06724I	0
b = -0.509548 + 0.711296I		
u = -1.204200 - 0.051631I		
a = -0.134195 - 0.224731I	-1.43643 - 1.06724I	0
b = -0.509548 - 0.711296I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.130357 + 1.206490I		
a = 0.52079 - 2.00918I	-3.50446 - 5.10385I	0
b = 1.25295 - 1.50619I		
u = -0.130357 - 1.206490I		
a = 0.52079 + 2.00918I	-3.50446 + 5.10385I	0
b = 1.25295 + 1.50619I		
u = -0.978809 + 0.720736I		
a = 0.22600 - 1.40774I	4.45374 - 2.93608I	0
b = 0.938598 - 0.949593I		
u = -0.978809 - 0.720736I		
a = 0.22600 + 1.40774I	4.45374 + 2.93608I	0
b = 0.938598 + 0.949593I		
u = 0.430559 + 1.148940I		
a = 0.06746 - 1.85481I	-5.14020 + 4.43600I	0
b = -0.74802 - 1.46882I		
u = 0.430559 - 1.148940I		
a = 0.06746 + 1.85481I	-5.14020 - 4.43600I	0
b = -0.74802 + 1.46882I		
u = 0.231567 + 1.210320I		
a = -1.07254 + 1.32991I	-6.04240 + 2.26440I	0
b = 0.225923 + 0.791440I		
u = 0.231567 - 1.210320I		
a = -1.07254 - 1.32991I	-6.04240 - 2.26440I	0
b = 0.225923 - 0.791440I		
u = 0.748825 + 0.134176I		
a = -1.029500 + 0.659070I	5.78898 - 0.92272I	0
b = 0.483999 - 0.212481I		
u = 0.748825 - 0.134176I		
a = -1.029500 - 0.659070I	5.78898 + 0.92272I	0
b = 0.483999 + 0.212481I		
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Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.318924 + 1.197870I		
a = -0.52440 + 1.92588I	-5.42410 + 6.89918I	0
b = 0.66140 + 1.27385I		
u = 0.318924 - 1.197870I		
a = -0.52440 - 1.92588I	-5.42410 - 6.89918I	0
b = 0.66140 - 1.27385I		
u = 0.502605 + 1.133200I		
a = 1.218780 - 0.256912I	-2.19176 + 1.79090I	0
b = -0.090194 - 0.635435I		
u = 0.502605 - 1.133200I		
a = 1.218780 + 0.256912I	-2.19176 - 1.79090I	0
b = -0.090194 + 0.635435I		
u = 0.020802 + 1.240620I		
a = -0.58472 - 1.95104I	-5.28743 - 2.75029I	0
b = 0.200347 - 0.949379I		
u = 0.020802 - 1.240620I		
a = -0.58472 + 1.95104I	-5.28743 + 2.75029I	0
b = 0.200347 + 0.949379I		
u = 0.672281 + 1.044110I		
a = -0.733412 + 0.389703I	-4.06067 + 2.71323I	0
b = 0.248286 + 0.924151I		
u = 0.672281 - 1.044110I		
a = -0.733412 - 0.389703I	-4.06067 - 2.71323I	0
b = 0.248286 - 0.924151I		
u = 0.231618 + 1.220750I		
a = -1.000350 + 0.801072I	-5.80675 - 1.12388I	0
b = 0.033968 + 0.735142I		
u = 0.231618 - 1.220750I		
a = -1.000350 - 0.801072I	-5.80675 + 1.12388I	0
b = 0.033968 - 0.735142I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.317189 + 1.204070I		
a = 0.679256 - 1.103960I	-6.10196 - 0.31502I	0
b = -0.118615 - 1.053290I		
u = 0.317189 - 1.204070I		
a = 0.679256 + 1.103960I	-6.10196 + 0.31502I	0
b = -0.118615 + 1.053290I		
u = -1.166340 + 0.471514I		
a = 0.0734794 - 0.0496177I	5.48069 + 1.09842I	0
b = 0.433930 + 0.651683I		
u = -1.166340 - 0.471514I		
a = 0.0734794 + 0.0496177I	5.48069 - 1.09842I	0
b = 0.433930 - 0.651683I		
u = -0.239978 + 1.235820I		
a = 0.06085 + 2.17482I	-5.37230 + 2.31650I	0
b = -0.65613 + 1.57978I		
u = -0.239978 - 1.235820I		
a = 0.06085 - 2.17482I	-5.37230 - 2.31650I	0
b = -0.65613 - 1.57978I		
u = -0.528628 + 0.516502I		
a = 0.659172 + 0.622640I	2.08705 - 2.16220I	0
b = -0.822489 + 0.761066I		
u = -0.528628 - 0.516502I		
a = 0.659172 - 0.622640I	2.08705 + 2.16220I	0
b = -0.822489 - 0.761066I		
u = -0.479429 + 1.167820I		
a = -0.64119 - 1.40633I	4.29924 - 1.75183I	0
b = 0.790701 - 0.847266I		
u = -0.479429 - 1.167820I		
a = -0.64119 + 1.40633I	4.29924 + 1.75183I	0
b = 0.790701 + 0.847266I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.118950 + 0.720662I		
a = -1.33090 - 1.40307I	0.95846 - 9.77269I	0
b = 0.773448 - 0.834229I		
u = 0.118950 - 0.720662I		
a = -1.33090 + 1.40307I	0.95846 + 9.77269I	0
b = 0.773448 + 0.834229I		
u = -0.019304 + 1.281100I		
a = 0.05764 - 2.36847I	-2.31866 - 0.62559I	0
b = 0.182088 - 0.538508I		
u = -0.019304 - 1.281100I		
a = 0.05764 + 2.36847I	-2.31866 + 0.62559I	0
b = 0.182088 + 0.538508I		
u = -1.013200 + 0.788182I		
a = 0.060747 - 0.364733I	0.68445 + 4.54297I	0
b = 0.614701 - 0.812307I		
u = -1.013200 - 0.788182I		
a = 0.060747 + 0.364733I	0.68445 - 4.54297I	0
b = 0.614701 + 0.812307I		
u = 0.087917 + 1.296680I		
a = 0.80335 + 1.70467I	-4.92652 + 6.63323I	0
b = 0.065222 + 0.592573I		
u = 0.087917 - 1.296680I		
a = 0.80335 - 1.70467I	-4.92652 - 6.63323I	0
b = 0.065222 - 0.592573I		
u = 0.364530 + 1.248020I		
a = 0.662740 - 0.933826I	2.25517 + 5.02163I	0
b = -0.721146 - 0.416633I		
u = 0.364530 - 1.248020I		
a = 0.662740 + 0.933826I	2.25517 - 5.02163I	0
b = -0.721146 + 0.416633I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.409295 + 1.244130I		
a = -0.10947 + 2.20468I	-2.64457 + 7.81616I	0
b = 0.72412 + 1.50675I		
u = 0.409295 - 1.244130I		
a = -0.10947 - 2.20468I	-2.64457 - 7.81616I	0
b = 0.72412 - 1.50675I		
u = -0.633763 + 1.174030I		
a = 0.430698 + 1.130150I	3.03587 - 7.38409I	0
b = -0.785327 + 0.927632I		
u = -0.633763 - 1.174030I		
a = 0.430698 - 1.130150I	3.03587 + 7.38409I	0
b = -0.785327 - 0.927632I		
u = -1.340970 + 0.074381I		
a = -0.211866 - 0.405795I	4.4685 + 14.6020I	0
b = -0.845852 - 0.905238I		
u = -1.340970 - 0.074381I		
a = -0.211866 + 0.405795I	4.4685 - 14.6020I	0
b = -0.845852 + 0.905238I		
u = 0.965373 + 0.935425I		
a = -0.629096 - 0.730552I	2.14071 + 5.07875I	0
b = -1.18811 - 0.79225I		
u = 0.965373 - 0.935425I		
a = -0.629096 + 0.730552I	2.14071 - 5.07875I	0
b = -1.18811 + 0.79225I		
u = -0.420650 + 1.277450I		
a = -0.1063630 + 0.0301120I	1.89645 - 5.49281I	0
b = -0.581738 - 0.209769I		
u = -0.420650 - 1.277450I		
a = -0.1063630 - 0.0301120I	1.89645 + 5.49281I	0
b = -0.581738 + 0.209769I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.242811 + 1.323580I		
a = 0.20041 - 1.82739I	-3.20993 - 4.88215I	0
b = 1.02392 - 1.30427I		
u = -0.242811 - 1.323580I		
a = 0.20041 + 1.82739I	-3.20993 + 4.88215I	0
b = 1.02392 + 1.30427I		
u = 0.471792 + 1.262920I		
a = -0.268649 + 1.359460I	4.19933 + 12.03280I	0
b = 0.947384 + 0.805087I		
u = 0.471792 - 1.262920I		
a = -0.268649 - 1.359460I	4.19933 - 12.03280I	0
b = 0.947384 - 0.805087I		
u = -0.541056 + 0.337442I		
a = 0.89469 + 1.65882I	2.52783 + 0.91774I	0
b = -0.769951 + 0.776699I		
u = -0.541056 - 0.337442I		
a = 0.89469 - 1.65882I	2.52783 - 0.91774I	0
b = -0.769951 - 0.776699I		
u = 0.010062 + 1.362780I		
a = -0.163586 - 1.138370I	-2.56970 - 1.27507I	0
b = 0.200935 - 0.495770I		
u = 0.010062 - 1.362780I		
a = -0.163586 + 1.138370I	-2.56970 + 1.27507I	0
b = 0.200935 + 0.495770I		
u = 0.051317 + 0.627084I		
a = 1.26642 + 1.61076I	2.34994 - 2.26170I	0
b = -0.701203 + 0.785413I		
u = 0.051317 - 0.627084I		
a = 1.26642 - 1.61076I	2.34994 + 2.26170I	0
b = -0.701203 - 0.785413I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.600889 + 0.145198I		
a = 0.457882 + 0.551784I	-1.69106 - 3.91075I	0
b = 0.757713 - 0.833049I		
u = 0.600889 - 0.145198I		
a = 0.457882 - 0.551784I	-1.69106 + 3.91075I	0
b = 0.757713 + 0.833049I		
u = 0.599172 + 0.108712I		
a = 0.158480 - 0.435292I	-2.19679 - 3.54459I	0
b = -0.439765 + 0.937930I		
u = 0.599172 - 0.108712I		
a = 0.158480 + 0.435292I	-2.19679 + 3.54459I	0
b = -0.439765 - 0.937930I		
u = 0.034939 + 1.391420I		
a = 0.394732 - 1.214730I	-3.10295 - 2.45282I	0
b = 0.446270 - 1.084400I		
u = 0.034939 - 1.391420I		
a = 0.394732 + 1.214730I	-3.10295 + 2.45282I	0
b = 0.446270 + 1.084400I		
u = 0.585017 + 0.130141I		
a = 0.821773 + 0.201357I	-2.25750 - 0.47262I	0
b = 0.433511 - 0.668420I		
u = 0.585017 - 0.130141I		
a = 0.821773 - 0.201357I	-2.25750 + 0.47262I	0
b = 0.433511 + 0.668420I		
u = -0.417811 + 1.337290I		
a = -0.02501 + 1.87044I	-5.4826 - 14.5916I	0
b = -0.97168 + 1.40325I		
u = -0.417811 - 1.337290I		
a = -0.02501 - 1.87044I	-5.4826 + 14.5916I	0
b = -0.97168 - 1.40325I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.401640 + 0.025007I		
a = 0.260519 + 0.358606I	5.88744 + 6.12768I	0
b = 0.847934 + 0.744420I		
u = -1.401640 - 0.025007I		
a = 0.260519 - 0.358606I	5.88744 - 6.12768I	0
b = 0.847934 - 0.744420I		
u = 0.709023 + 1.210860I		
a = -0.229361 + 1.316210I	-3.20320 + 8.67885I	0
b = 0.80780 + 1.22940I		
u = 0.709023 - 1.210860I		
a = -0.229361 - 1.316210I	-3.20320 - 8.67885I	0
b = 0.80780 - 1.22940I		
u = -0.981375 + 1.006190I		
a = -0.257461 + 0.736246I	2.97232 - 2.94893I	0
b = -0.894192 + 0.764677I		
u = -0.981375 - 1.006190I		
a = -0.257461 - 0.736246I	2.97232 + 2.94893I	0
b = -0.894192 - 0.764677I		
u = 0.57461 + 1.29268I		
a = -0.30786 + 1.69479I	-1.45971 + 12.53020I	0
b = 0.88552 + 1.25518I		
u = 0.57461 - 1.29268I		
a = -0.30786 - 1.69479I	-1.45971 - 12.53020I	0
b = 0.88552 - 1.25518I		
u = 1.45070 + 0.05722I		
a = 0.349185 + 0.629194I	4.66391 + 3.84603I	0
b = 0.928339 + 0.874071I		
u = 1.45070 - 0.05722I		
a = 0.349185 - 0.629194I	4.66391 - 3.84603I	0
b = 0.928339 - 0.874071I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.50383 + 1.37168I		
a = -0.08920 - 1.62084I	-6.01699 - 4.72778I	0
b = 0.80347 - 1.25971I		
u = -0.50383 - 1.37168I		
a = -0.08920 + 1.62084I	-6.01699 + 4.72778I	0
b = 0.80347 + 1.25971I		
u = -0.62267 + 1.34491I		
a = -0.031335 + 1.142560I	2.16361 - 6.46245I	0
b = -0.829767 + 0.776852I		
u = -0.62267 - 1.34491I		
a = -0.031335 - 1.142560I	2.16361 + 6.46245I	0
b = -0.829767 - 0.776852I		
u = 0.47760 + 1.40469I		
a = 0.523642 - 0.737459I	-2.93539 - 1.76763I	0
b = 0.326855 - 0.684462I		
u = 0.47760 - 1.40469I		
a = 0.523642 + 0.737459I	-2.93539 + 1.76763I	0
b = 0.326855 + 0.684462I		
u = 0.52697 + 1.39412I		
a = 0.42958 - 1.84167I	-1.21726 + 10.72700I	0
b = -0.66193 - 1.25010I		
u = 0.52697 - 1.39412I		
a = 0.42958 + 1.84167I	-1.21726 - 10.72700I	0
b = -0.66193 + 1.25010I		
u = -0.43429 + 1.43705I		
a = 0.453948 + 1.026310I	-6.42064 - 7.10901I	0
b = -0.177050 + 0.917103I		
u = -0.43429 - 1.43705I		
a = 0.453948 - 1.026310I	-6.42064 + 7.10901I	0
b = -0.177050 - 0.917103I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.471516 + 0.162372I		
a = 0.09652 + 1.69270I	1.79757 - 2.90164I	0
b = 0.683837 - 0.148416I		
u = 0.471516 - 0.162372I		
a = 0.09652 - 1.69270I	1.79757 + 2.90164I	0
b = 0.683837 + 0.148416I		
u = 0.493235 + 0.030430I		
a = 0.057781 + 0.239450I	1.09136 - 4.08112I	0
b = -0.875825 + 1.045790I		
u = 0.493235 - 0.030430I		
a = 0.057781 - 0.239450I	1.09136 + 4.08112I	0
b = -0.875825 - 1.045790I		
u = -0.76251 + 1.30293I		
a = -0.668876 - 0.646738I	-1.23023 - 11.74560I	0
b = 0.133876 - 0.887021I		
u = -0.76251 - 1.30293I		
a = -0.668876 + 0.646738I	-1.23023 + 11.74560I	0
b = 0.133876 + 0.887021I		
u = 1.16332 + 0.96986I		
a = -0.510220 + 0.252414I	-1.53306 - 1.74866I	0
b = -0.288801 + 0.766018I		
u = 1.16332 - 0.96986I		
a = -0.510220 - 0.252414I	-1.53306 + 1.74866I	0
b = -0.288801 - 0.766018I		
u = -0.63886 + 1.38954I		
a = -0.14475 - 1.70636I	0.3358 - 21.3830I	0
b = 0.90619 - 1.31128I		
u = -0.63886 - 1.38954I		
a = -0.14475 + 1.70636I	0.3358 + 21.3830I	0
b = 0.90619 + 1.31128I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.63627 + 1.40843I		
a = 0.05708 + 1.61775I	1.56115 - 13.02230I	0
b = -0.91733 + 1.23690I		
u = -0.63627 - 1.40843I		
a = 0.05708 - 1.61775I	1.56115 + 13.02230I	0
b = -0.91733 - 1.23690I		
u = -0.10308 + 1.54733I		
a = 0.17816 + 2.03259I	-3.93380 - 6.41017I	0
b = -0.130030 + 0.934174I		
u = -0.10308 - 1.54733I		
a = 0.17816 - 2.03259I	-3.93380 + 6.41017I	0
b = -0.130030 - 0.934174I		
u = -0.430443	0.004400	44.0500
a = 0.729458	0.891162	11.3580
b = -0.587222		
u = 0.67597 + 1.42812I	0.10010 . 11.000007	0
a = 0.05800 - 1.83179I	0.13213 + 11.03980I	0
$\frac{b = -0.83814 - 1.38166I}{u = 0.67597 - 1.42812I}$		
	0.10010 11.000007	0
a = 0.05800 + 1.83179I	0.13213 - 11.03980I	0
b = -0.83814 + 1.38166I $u = 0.60066 + 1.54835I$		
	$\begin{bmatrix} -0.36264 + 3.62125I \end{bmatrix}$	0
	-0.30204 + 3.021231	U
b = -0.094862 - 0.601382I $u = 0.60066 - 1.54835I$		
a = 0.492161 + 0.830434I	$\begin{bmatrix} -0.36264 - 3.62125I \end{bmatrix}$	0
	-0.30204 - 3.021231	U
b = -0.094862 + 0.601382I $u = -0.69986 + 1.50828I$		
a = -0.03360 + 1.308281 a = 0.311683 + 0.4946771	1.41700 - 5.68141I	0
	1.41700 - 5.061411	U
b = -0.195142 + 0.476333I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.69986 - 1.50828I		
a = 0.311683 - 0.494677I	1.41700 + 5.68141I	0
b = -0.195142 - 0.476333I		
u = 0.305378 + 0.141468I		
a = -0.58697 - 3.19652I	-0.58924 + 5.03512I	4.75419 - 8.45098I
b = -0.850298 - 0.538195I		
u = 0.305378 - 0.141468I		
a = -0.58697 + 3.19652I	-0.58924 - 5.03512I	4.75419 + 8.45098I
b = -0.850298 + 0.538195I		
u = -0.285913 + 0.176709I		
a = 1.09796 + 1.97435I	0.619579 - 0.110739I	11.54104 + 2.72025I
b = -0.846664 + 0.081916I		
u = -0.285913 - 0.176709I		
a = 1.09796 - 1.97435I	0.619579 + 0.110739I	11.54104 - 2.72025I
b = -0.846664 - 0.081916I		
u = 0.146492 + 0.002381I		
a = -1.27865 + 4.48811I	-1.29385 - 3.59246I	-0.92876 + 12.74754I
b = 0.601020 + 1.183220I		
u = 0.146492 - 0.002381I		
a = -1.27865 - 4.48811I	-1.29385 + 3.59246I	-0.92876 - 12.74754I
b = 0.601020 - 1.183220I		
u = -0.93942 + 1.64495I		
a = -0.442953 - 0.361325I	-3.11311 + 2.95246I	0
b = -0.194015 - 0.515103I		
u = -0.93942 - 1.64495I		
a = -0.442953 + 0.361325I	-3.11311 - 2.95246I	0
b = -0.194015 + 0.515103I		
u = -0.23786 + 2.42759I		
a = 0.125212 + 0.533693I	-2.04730 + 6.29582I	0
b = 0.092313 + 0.524760I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.23786 - 2.42759I		
a = 0.125212 - 0.533693I	-2.04730 - 6.29582I	0
b = 0.092313 - 0.524760I		

 $II. \\ I_2^u = \langle 2.78 \times 10^{73} u^{49} + 1.71 \times 10^{73} u^{48} + \dots + 7.28 \times 10^{73} b - 2.44 \times 10^{74}, \ 1.03 \times 10^{75} u^{49} + 1.06 \times 10^{75} u^{48} + \dots + 7.28 \times 10^{73} a + 2.83 \times 10^{75}, \ u^{50} + u^{49} + \dots + 2u + 1 \rangle$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

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

$$a_{9} = \begin{pmatrix} -14.1781u^{49} - 14.5071u^{48} + \dots - 333.047u - 38.9039 \\ -0.381558u^{49} - 0.234486u^{48} + \dots - 36.6884u + 3.35273 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 5.44613u^{49} - 0.720475u^{48} + \dots + 146.134u - 89.7317 \\ -4.57949u^{49} - 6.48764u^{48} + \dots - 43.0276u - 19.0639 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -13.6635u^{49} - 13.7424u^{48} + \dots - 325.119u - 62.7536 \\ -5.13283u^{49} - 3.63850u^{48} + \dots - 87.2480u - 11.3657 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -17.3532u^{49} - 17.8199u^{48} + \dots - 398.545u - 74.0403 \\ -5.61853u^{49} - 4.14179u^{48} + \dots - 91.7133u - 11.7535 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.55967u^{49} - 1.84775u^{48} + \dots + 25.0574u - 42.6084 \\ 2.44359u^{49} - 0.0586217u^{48} + \dots + 13.4012u - 13.3197 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -12.6100u^{49} - 13.3642u^{48} + \dots - 318.299u - 38.4279 \\ 1.18661u^{49} + 0.908347u^{48} + \dots - 21.9398u + 3.82873 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 6.84882u^{49} + 13.1489u^{48} + \dots + 404.021u + 87.5153 \\ 6.51464u^{49} + 3.67721u^{48} + \dots + 185.901u + 94.3675 \\ 5.23467u^{49} + 8.40995u^{48} + \dots + 185.901u + 94.3675 \\ 5.23467u^{49} + 8.40995u^{48} + \dots + 93.4483u + 21.1482 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $0.398560u^{49} + 2.60237u^{48} + \cdots + 206.783u + 112.904$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{50} - 15u^{49} + \dots + 5u + 1$
c_2	$u^{50} - u^{49} + \dots + u + 1$
c_3	$u^{50} - 5u^{49} + \dots + u + 1$
c_4	$u^{50} + u^{49} + \dots + 10u^2 + 1$
<i>C</i> 5	$u^{50} + u^{49} + \dots + 2u + 1$
c_6	$u^{50} + u^{49} + \dots - 5u + 1$
c_7	$u^{50} + 3u^{49} + \dots + 319u + 67$
c_8	$u^{50} - 3u^{49} + \dots - 5u + 1$
<i>c</i> ₉	$u^{50} - 4u^{49} + \dots + 11u + 1$
c_{10}	$u^{50} - 3u^{49} + \dots - u + 1$
c_{11}	$u^{50} - 3u^{49} + \dots - 319u + 67$
c_{12}	$u^{50} - u^{49} + \dots - 2u + 1$
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(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{50} + 7y^{49} + \dots - 11y + 1$
c_2	$y^{50} + 27y^{49} + \dots + 11y + 1$
c_3	$y^{50} + 33y^{49} + \dots + 43y + 1$
C4	$y^{50} + 11y^{49} + \dots + 20y + 1$
c_5, c_{12}	$y^{50} + 43y^{49} + \dots + 102y + 1$
<i>C</i> ₆	$y^{50} + 3y^{49} + \dots - 27y + 1$
c_7, c_{11}	$y^{50} - 35y^{49} + \dots - 57541y + 4489$
c_8	$y^{50} + 13y^{49} + \dots - 31y + 1$
<i>C</i> 9	$y^{50} - 10y^{49} + \dots - 39y + 1$
c_{10}	$y^{50} + 5y^{49} + \dots + y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.175737 + 0.978826I		
a = -0.89388 - 1.14763I	-1.89447 + 5.40487I	-2.21458 - 11.17990I
b = -1.69851 - 0.96426I		
u = 0.175737 - 0.978826I		
a = -0.89388 + 1.14763I	-1.89447 - 5.40487I	-2.21458 + 11.17990I
b = -1.69851 + 0.96426I		
u = 0.108986 + 0.986743I		
a = 2.79072 + 0.09309I	-1.74289 + 0.34031I	19.8563 - 25.9702I
b = -0.428963 + 0.304140I		
u = 0.108986 - 0.986743I		
a = 2.79072 - 0.09309I	-1.74289 - 0.34031I	19.8563 + 25.9702I
b = -0.428963 - 0.304140I		
u = 0.962506 + 0.119363I		
a = -0.572983 + 0.108865I	5.41808 - 0.09137I	7.57607 - 2.30673I
b = 0.356369 - 0.254342I		
u = 0.962506 - 0.119363I		
a = -0.572983 - 0.108865I	5.41808 + 0.09137I	7.57607 + 2.30673I
b = 0.356369 + 0.254342I		
u = -0.166851 + 1.042870I		
a = -1.06937 - 1.21207I	-5.46671 - 0.71937I	-4.35638 + 1.65522I
b = 0.247813 - 0.938110I		
u = -0.166851 - 1.042870I		
a = -1.06937 + 1.21207I	-5.46671 + 0.71937I	-4.35638 - 1.65522I
b = 0.247813 + 0.938110I		
u = 0.477774 + 0.950628I		
a = -0.455343 - 0.176831I	1.18633 + 11.73570I	4.00000 - 9.86856I
b = 0.793618 + 0.429913I		
u = 0.477774 - 0.950628I		
a = -0.455343 + 0.176831I	1.18633 - 11.73570I	4.00000 + 9.86856I
b = 0.793618 - 0.429913I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.024119 + 0.821510I		
a = 0.20511 + 3.20283I	4.21889 - 3.22105I	0.7320 + 16.6879I
b = 0.47639 + 1.77707I		
u = 0.024119 - 0.821510I		
a = 0.20511 - 3.20283I	4.21889 + 3.22105I	0.7320 - 16.6879I
b = 0.47639 - 1.77707I		
u = 0.406557 + 1.109500I		
a = -0.715786 + 0.328159I	2.20924 + 4.53761I	0
b = -0.990557 + 0.560139I		
u = 0.406557 - 1.109500I		
a = -0.715786 - 0.328159I	2.20924 - 4.53761I	0
b = -0.990557 - 0.560139I		
u = 0.531480 + 0.606910I		
a = -0.39707 + 2.27300I	4.56234 + 0.24521I	13.8127 - 5.2792I
b = 0.296037 + 1.262530I		
u = 0.531480 - 0.606910I		
a = -0.39707 - 2.27300I	4.56234 - 0.24521I	13.8127 + 5.2792I
b = 0.296037 - 1.262530I		
u = -0.415231 + 1.126350I		
a = -0.36728 - 1.77634I	-4.57790 - 6.44467I	0
b = 0.76736 - 1.31532I		
u = -0.415231 - 1.126350I		
a = -0.36728 + 1.77634I	-4.57790 + 6.44467I	0
b = 0.76736 + 1.31532I		
u = -0.569596 + 1.072160I		
a = 1.104740 + 0.288422I	-2.61505 - 2.29576I	0
b = -0.179330 + 0.800716I		
u = -0.569596 - 1.072160I		
a = 1.104740 - 0.288422I	-2.61505 + 2.29576I	0
b = -0.179330 - 0.800716I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.063025 + 1.236740I		
a = -1.06506 - 2.23569I	-2.33411 - 0.19277I	0
b = -0.040736 - 0.411376I		
u = -0.063025 - 1.236740I		
a = -1.06506 + 2.23569I	-2.33411 + 0.19277I	0
b = -0.040736 + 0.411376I		
u = 0.290391 + 0.696624I		
a = 0.920345 + 0.820110I	-1.65988 - 3.02171I	-6.89482 + 8.29972I
b = 1.34566 + 0.93386I		
u = 0.290391 - 0.696624I		
a = 0.920345 - 0.820110I	-1.65988 + 3.02171I	-6.89482 - 8.29972I
b = 1.34566 - 0.93386I		
u = -1.250260 + 0.224519I		
a = 0.066986 - 0.800490I	4.35201 - 4.83110I	0
b = 0.835020 - 0.988481I		
u = -1.250260 - 0.224519I		
a = 0.066986 + 0.800490I	4.35201 + 4.83110I	0
b = 0.835020 + 0.988481I		
u = -0.995042 + 0.791707I		
a = -0.493755 + 0.560747I	2.60132 - 3.78645I	0
b = -1.119910 + 0.723627I		
u = -0.995042 - 0.791707I		
a = -0.493755 - 0.560747I	2.60132 + 3.78645I	0
b = -1.119910 - 0.723627I		
u = 0.402699 + 1.208040I		
a = 0.622160 - 0.744990I	1.97452 + 5.01029I	0
b = -0.704162 - 0.436292I		
u = 0.402699 - 1.208040I		
a = 0.622160 + 0.744990I	1.97452 - 5.01029I	0
b = -0.704162 + 0.436292I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.171298 + 1.285580I		
a = 0.32399 - 1.87950I	-3.17536 - 5.17301I	0
b = 1.12071 - 1.35619I		
u = -0.171298 - 1.285580I		
a = 0.32399 + 1.87950I	-3.17536 + 5.17301I	0
b = 1.12071 + 1.35619I		
u = 0.762062 + 1.050190I		
a = -0.578620 - 0.487556I	2.75994 + 5.15340I	0
b = -1.172650 - 0.454079I		
u = 0.762062 - 1.050190I		
a = -0.578620 + 0.487556I	2.75994 - 5.15340I	0
b = -1.172650 + 0.454079I		
u = 0.16304 + 1.41124I		
a = -0.12655 + 1.81902I	-5.37637 + 5.32887I	0
b = 0.002005 + 1.024370I		
u = 0.16304 - 1.41124I		
a = -0.12655 - 1.81902I	-5.37637 - 5.32887I	0
b = 0.002005 - 1.024370I		
u = -0.89404 + 1.21003I		
a = -0.557881 - 0.374025I	-3.54696 + 1.59294I	0
b = -0.241545 - 0.666236I		
u = -0.89404 - 1.21003I		
a = -0.557881 + 0.374025I	-3.54696 - 1.59294I	0
b = -0.241545 + 0.666236I		
u = -0.58393 + 1.39791I		
a = 0.23196 + 1.83674I	-0.53509 - 11.05320I	0
b = -0.77434 + 1.30822I		
u = -0.58393 - 1.39791I		
a = 0.23196 - 1.83674I	-0.53509 + 11.05320I	0
b = -0.77434 - 1.30822I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.37698 + 1.47846I		
a = 0.545028 - 0.729281I	-2.52583 - 3.06203I	0
b = 0.540239 - 0.589042I		
u = 0.37698 - 1.47846I		
a = 0.545028 + 0.729281I	-2.52583 + 3.06203I	0
b = 0.540239 + 0.589042I		
u = -0.113848 + 0.451309I		
a = 0.40620 + 2.43150I	-0.065225 + 0.242878I	0.89688 - 5.51398I
b = 0.679433 - 0.072502I		
u = -0.113848 - 0.451309I		
a = 0.40620 - 2.43150I	-0.065225 - 0.242878I	0.89688 + 5.51398I
b = 0.679433 + 0.072502I		
u = -0.055408 + 0.221738I		
a = -2.77675 + 0.79467I	0.50329 + 3.74601I	2.65104 - 4.84551I
b = -0.741522 - 0.825969I		
u = -0.055408 - 0.221738I		
a = -2.77675 - 0.79467I	0.50329 - 3.74601I	2.65104 + 4.84551I
b = -0.741522 + 0.825969I		
u = -0.034909 + 0.210918I		
a = -1.52241 - 7.20450I	5.93553 - 5.39947I	10.71798 + 5.04274I
b = 0.219587 - 1.195520I		
u = -0.034909 - 0.210918I		
a = -1.52241 + 7.20450I	5.93553 + 5.39947I	10.71798 - 5.04274I
b = 0.219587 + 1.195520I		
u = 0.13110 + 2.23560I		
a = -0.124499 + 0.643416I	-1.85059 - 6.24758I	0
b = -0.088031 + 0.420848I		
u = 0.13110 - 2.23560I		
a = -0.124499 - 0.643416I	-1.85059 + 6.24758I	0
b = -0.088031 - 0.420848I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{50} - 15u^{49} + \dots + 5u + 1)(u^{191} + 8u^{190} + \dots + 12090u - 521) $
c_2	$(u^{50} - u^{49} + \dots + u + 1)(u^{191} + 9u^{189} + \dots + 26856u - 3123)$
c_3	$(u^{50} - 5u^{49} + \dots + u + 1)(u^{191} + 8u^{190} + \dots - 40446u - 4563)$
c_4	$(u^{50} + u^{49} + \dots + 10u^{2} + 1)$ $\cdot (u^{191} + 23u^{189} + \dots - 6088215u - 1128983)$
c_5	$(u^{50} + u^{49} + \dots + 2u + 1)(u^{191} + 65u^{189} + \dots - 7345527u - 262307)$
c_6	$(u^{50} + u^{49} + \dots - 5u + 1)(u^{191} + 2u^{190} + \dots - 26u - 1)$
c_7	$(u^{50} + 3u^{49} + \dots + 319u + 67)$ $\cdot (u^{191} - 4u^{190} + \dots - 644237242u - 33057935)$
c_8	$(u^{50} - 3u^{49} + \dots - 5u + 1)(u^{191} + 4u^{190} + \dots - 14u - 1)$
c_9	$(u^{50} - 4u^{49} + \dots + 11u + 1)$ $\cdot (u^{191} + 3u^{190} + \dots + 2081393442u - 208449613)$
c_{10}	$(u^{50} - 3u^{49} + \dots - u + 1)(u^{191} + 4u^{190} + \dots - 517308u - 92933)$
c_{11}	$(u^{50} - 3u^{49} + \dots - 319u + 67)$ $\cdot (u^{191} - 4u^{190} + \dots - 644237242u - 33057935)$
c_{12}	$(u^{50} - u^{49} + \dots - 2u + 1)(u^{191} + 65u^{189} + \dots - 7345527u - 262307)$ 35

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{50} + 7y^{49} + \dots - 11y + 1)$ $\cdot (y^{191} + 18y^{190} + \dots + 7672754y - 271441)$
c_2	$(y^{50} + 27y^{49} + \dots + 11y + 1)$ $\cdot (y^{191} + 18y^{190} + \dots - 1093867848y - 9753129)$
c_3	$(y^{50} + 33y^{49} + \dots + 43y + 1)$ $\cdot (y^{191} + 48y^{190} + \dots - 547954632y - 20820969)$
c_4	$(y^{50} + 11y^{49} + \dots + 20y + 1)$ $\cdot (y^{191} + 46y^{190} + \dots - 71896540462205y - 1274602614289)$
c_5,c_{12}	$(y^{50} + 43y^{49} + \dots + 102y + 1)$ $\cdot (y^{191} + 130y^{190} + \dots + 5931925730613y - 68804962249)$
c_6	$(y^{50} + 3y^{49} + \dots - 27y + 1)(y^{191} - 14y^{190} + \dots + 150y - 1)$
c_7, c_{11}	$(y^{50} - 35y^{49} + \dots - 57541y + 4489)$ $\cdot (y^{191} - 140y^{190} + \dots + 148730603959730924y - 1092827066464225)$
c_8	$(y^{50} + 13y^{49} + \dots - 31y + 1)(y^{191} + 16y^{190} + \dots - 1830y - 1)$
<i>c</i> 9	$(y^{50} - 10y^{49} + \dots - 39y + 1)$ $\cdot (y^{191} - 55y^{190} + \dots + 2565423313669011206y - 43451241159849769)$
c_{10}	$(y^{50} + 5y^{49} + \dots + y + 1)$ $\cdot (y^{191} - 24y^{190} + \dots + 682916036430y - 8636542489)$