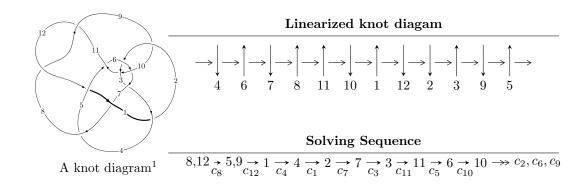
$12a_{0867} (K12a_{0867})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -4.45856 \times 10^{1652} u^{203} + 2.23615 \times 10^{1653} u^{202} + \dots + 3.93637 \times 10^{1652} b - 1.11413 \times 10^{1659}, \\ &- 1.12447 \times 10^{1659} u^{203} + 3.90032 \times 10^{1659} u^{202} + \dots + 9.78542 \times 10^{1658} a - 7.08400 \times 10^{1665}, \\ &u^{204} - 6 u^{203} + \dots + 13656618 u + 2485901 \rangle \\ I_2^u &= \langle -3.99801 \times 10^{62} u^{47} + 3.61993 \times 10^{63} u^{46} + \dots + 2.53866 \times 10^{62} b - 2.49503 \times 10^{63}, \\ &- 3.34106 \times 10^{64} u^{47} + 5.34693 \times 10^{65} u^{46} + \dots + 1.48004 \times 10^{65} a + 1.06585 \times 10^{67}, \\ &u^{48} - 9 u^{47} + \dots - 58 u + 53 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 252 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.
$$I_1^u = \langle -4.46 \times 10^{1652} u^{203} + 2.24 \times 10^{1653} u^{202} + \dots + 3.94 \times 10^{1652} b - 1.11 \times 10^{1659}, \ -1.12 \times 10^{1659} u^{203} + 3.90 \times 10^{1659} u^{202} + \dots + 9.79 \times 10^{1658} a - 7.08 \times 10^{1665}, \ u^{204} - 6u^{203} + \dots + 13656618u + 2485901 \rangle$$

(i) Arc colorings

$$a_{12} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1.14913u^{203} - 3.98585u^{202} + \dots + 4.17631 \times 10^{7}u + 7.23934 \times 10^{6} \\ 1.13266u^{203} - 5.68074u^{202} + \dots + 1.80208 \times 10^{7}u + 2.83035 \times 10^{6} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 1.34497u^{203} - 15.0893u^{202} + \dots - 8.37379 \times 10^{7}u - 1.60630 \times 10^{7} \\ 0.624337u^{203} - 1.59537u^{202} + \dots + 2.91074 \times 10^{7}u + 5.10734 \times 10^{6} \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0164688u^{203} + 1.69489u^{202} + \dots + 2.37423 \times 10^{7}u + 4.40899 \times 10^{6} \\ 1.13266u^{203} - 5.68074u^{202} + \dots + 1.80208 \times 10^{7}u + 2.83035 \times 10^{6} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.758911u^{203} + 0.692576u^{202} + \dots + 3.21925 \times 10^{7}u + 5.92420 \times 10^{6} \\ 0.104561u^{203} + 1.79786u^{202} + \dots + 3.21925 \times 10^{7}u + 5.92420 \times 10^{6} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.239947u^{203} + 0.350290u^{202} + \dots + 1.31194 \times 10^{7}u - 2.41090 \times 10^{6} \\ -1.43567u^{203} + 9.40565u^{202} + \dots + 5.32932 \times 10^{6}u + 1.62665 \times 10^{6} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1.04271u^{203} - 12.2971u^{202} + \dots - 7.25214 \times 10^{7}u - 1.38402 \times 10^{7} \\ 1.27042u^{203} - 5.44461u^{202} + \dots + 3.18229 \times 10^{7}u + 5.32378 \times 10^{6} \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} -0.511692u^{203} + 4.99307u^{202} + \dots + 2.34337 \times 10^{7}u + 4.58125 \times 10^{6} \\ 1.29741u^{203} - 6.77135u^{202} + \dots + 1.72855 \times 10^{7}u + 2.62336 \times 10^{6} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.264271u^{203} - 4.03649u^{202} + \dots + 1.72855 \times 10^{7}u + 5.39501 \times 10^{6} \\ 1.82361u^{203} - 8.86050u^{202} + \dots + 3.30799 \times 10^{7}u + 5.30940 \times 10^{6} \end{pmatrix}$$

(ii) Obstruction class = -1

$$= -0.539639u^{203} - 2.26256u^{202} + \dots - 7.03698 \times 10^7 u - 1.28489 \times 10^7 u^{-1} + 1.28480 \times 10^7 u^{-1} + 1.28480 \times 10^7$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$11(11u^{204} + 171u^{203} + \dots - 6231u + 443)$
c_2	$u^{204} - 6u^{203} + \dots + 6585u + 737$
<i>C</i> ₃	$u^{204} - 3u^{203} + \dots - 2321327084713u + 643304208535$
C ₄	$u^{204} + 2u^{203} + \dots + 6641457u + 742643$
<i>C</i> ₅	$11(11u^{204} + 14u^{203} + \dots + 1.52413 \times 10^{13}u + 1.11793 \times 10^{12})$
c_6	$11(11u^{204} + 58u^{203} + \dots + 15u + 1)$
<i>C</i> ₇	$u^{204} + u^{203} + \dots + 8125089u + 260381$
c_8, c_{11}	$u^{204} + 6u^{203} + \dots - 13656618u + 2485901$
<i>C</i> 9	$u^{204} + u^{203} + \dots - 408235371u + 22543039$
c_{10}	$u^{204} + u^{203} + \dots - 733531u + 192929$
c_{12}	$11(11u^{204} + 61u^{203} + \dots + 23u + 1)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$121(121y^{204} + 41y^{203} + \dots + 7.46207 \times 10^{7}y + 196249)$
c_2	$y^{204} + 16y^{203} + \dots + 58072559y + 543169$
<i>c</i> ₃	$y^{204} - 89y^{203} + \dots - 2.86 \times 10^{25}y + 4.14 \times 10^{23}$
C ₄	$y^{204} - 46y^{203} + \dots - 47363971689995y + 551518625449$
<i>C</i> ₅	$121(121y^{204} + 9374y^{203} + \dots + 3.12706 \times 10^{25}y + 1.24976 \times 10^{24})$
c_6	$121(121y^{204} - 2726y^{203} + \dots + 117y + 1)$
c_7	$y^{204} + 23y^{203} + \dots + 11743856834025y + 67798265161$
c_8, c_{11}	$y^{204} + 132y^{203} + \dots + 357972369982526y + 6179703781801$
<i>C</i> 9	$y^{204} - 9y^{203} + \dots - 45177724753263541y + 508188607355521$
c_{10}	$y^{204} + 59y^{203} + \dots + 6380936510163y + 37221599041$
c_{12}	$121(121y^{204} - 3831y^{203} + \dots + 105y + 1)$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.823478 + 0.563300I		
a = -1.112680 + 0.455222I	-5.10902 + 4.39820I	0
b = -0.728254 + 0.470888I		
u = -0.823478 - 0.563300I		
a = -1.112680 - 0.455222I	-5.10902 - 4.39820I	0
b = -0.728254 - 0.470888I		
u = -0.159947 + 0.981682I		
a = 0.278259 - 0.350237I	-2.50183 + 1.79882I	0
b = 0.910060 - 1.031980I		
u = -0.159947 - 0.981682I		
a = 0.278259 + 0.350237I	-2.50183 - 1.79882I	0
b = 0.910060 + 1.031980I		
u = -0.018854 + 1.009260I		
a = -0.55681 + 2.34601I	4.74916 + 0.08868I	0
b = 0.799649 + 0.240782I		
u = -0.018854 - 1.009260I		
a = -0.55681 - 2.34601I	4.74916 - 0.08868I	0
b = 0.799649 - 0.240782I		
u = -0.033632 + 1.012720I		
a = -0.538835 - 0.625356I	2.36339 + 3.07909I	0
b = 1.73302 - 1.30223I		
u = -0.033632 - 1.012720I		
a = -0.538835 + 0.625356I	2.36339 - 3.07909I	0
b = 1.73302 + 1.30223I		
u = 0.960202 + 0.332336I		
a = -0.384866 - 0.836146I	-4.58415 - 0.14305I	0
b = 1.15074 - 0.93920I		
u = 0.960202 - 0.332336I		
a = -0.384866 + 0.836146I	-4.58415 + 0.14305I	0
b = 1.15074 + 0.93920I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.994649 + 0.210504I		
a = 0.241512 - 0.832693I	-1.62457 - 2.11273I	0
b = 0.864296 - 0.568169I		
u = 0.994649 - 0.210504I		
a = 0.241512 + 0.832693I	-1.62457 + 2.11273I	0
b = 0.864296 + 0.568169I		
u = -0.122253 + 0.966206I		
a = 1.86689 - 0.10216I	-3.62878 + 6.56764I	0
b = -1.333520 - 0.071500I		
u = -0.122253 - 0.966206I		
a = 1.86689 + 0.10216I	-3.62878 - 6.56764I	0
b = -1.333520 + 0.071500I		
u = -0.868012 + 0.439723I		
a = 0.552366 - 0.911389I	-5.12728 - 8.60924I	0
b = -1.08048 - 1.00711I		
u = -0.868012 - 0.439723I		
a = 0.552366 + 0.911389I	-5.12728 + 8.60924I	0
b = -1.08048 + 1.00711I		
u = -0.055671 + 1.030950I		
a = 1.24849 + 1.77107I	-0.11230 + 3.40572I	0
b = -0.533549 + 0.021730I		
u = -0.055671 - 1.030950I		
a = 1.24849 - 1.77107I	-0.11230 - 3.40572I	0
b = -0.533549 - 0.021730I		
u = 0.188339 + 1.015690I		
a = 0.531576 + 0.800991I	-0.29177 - 7.00468I	0
b = -1.68492 + 1.27312I		
u = 0.188339 - 1.015690I		
a = 0.531576 - 0.800991I	-0.29177 + 7.00468I	0
b = -1.68492 - 1.27312I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.225400 + 1.011030I		
a = -0.572802 - 0.440337I	1.45660 - 2.62442I	0
b = 0.877863 + 0.073409I		
u = 0.225400 - 1.011030I		
a = -0.572802 + 0.440337I	1.45660 + 2.62442I	0
b = 0.877863 - 0.073409I		
u = -0.060207 + 1.039490I		
a = 0.768909 - 1.050130I	3.50944 + 1.39703I	0
b = -1.239090 - 0.650945I		
u = -0.060207 - 1.039490I		
a = 0.768909 + 1.050130I	3.50944 - 1.39703I	0
b = -1.239090 + 0.650945I		
u = -0.091095 + 1.049180I		
a = -0.90913 + 1.22511I	1.84043 + 6.24977I	0
b = 1.30627 + 0.74447I		
u = -0.091095 - 1.049180I		
a = -0.90913 - 1.22511I	1.84043 - 6.24977I	0
b = 1.30627 - 0.74447I		
u = 0.572617 + 0.897054I		
a = -0.147903 + 0.949882I	0.12744 - 4.27664I	0
b = -0.636687 + 0.974947I		
u = 0.572617 - 0.897054I		
a = -0.147903 - 0.949882I	0.12744 + 4.27664I	0
b = -0.636687 - 0.974947I		
u = 0.009644 + 1.064750I		
a = 0.332412 - 1.096940I	3.95270 - 0.80622I	0
b = -0.965173 - 0.167142I		
u = 0.009644 - 1.064750I		
a = 0.332412 + 1.096940I	3.95270 + 0.80622I	0
b = -0.965173 + 0.167142I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.055453 + 0.929119I		
a = 0.23290 + 1.83768I	-0.79781 - 3.20782I	0
b = -0.673410 + 0.780389I		
u = 0.055453 - 0.929119I		
a = 0.23290 - 1.83768I	-0.79781 + 3.20782I	0
b = -0.673410 - 0.780389I		
u = 0.533091 + 0.930744I		
a = -0.379653 - 0.256907I	-3.29487 - 4.09961I	0
b = -0.052472 - 1.390330I		
u = 0.533091 - 0.930744I		
a = -0.379653 + 0.256907I	-3.29487 + 4.09961I	0
b = -0.052472 + 1.390330I		
u = -0.349105 + 0.855715I		
a = 0.386266 - 0.332969I	-3.03794 + 4.88326I	0
b = 0.36360 - 1.59967I		
u = -0.349105 - 0.855715I		
a = 0.386266 + 0.332969I	-3.03794 - 4.88326I	0
b = 0.36360 + 1.59967I		
u = -0.012207 + 1.081020I		
a = -0.081150 + 0.177523I	2.55218 - 2.57578I	0
b = 0.74087 + 1.66959I		
u = -0.012207 - 1.081020I		
a = -0.081150 - 0.177523I	2.55218 + 2.57578I	0
b = 0.74087 - 1.66959I		
u = 0.983421 + 0.453640I		
a = 0.185131 + 0.919177I	-4.85248 - 1.32628I	0
b = -0.83733 + 1.14332I		
u = 0.983421 - 0.453640I		
a = 0.185131 - 0.919177I	-4.85248 + 1.32628I	0
b = -0.83733 - 1.14332I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.900430 + 0.046789I		
a = -0.397176 - 1.112830I	-5.05468 - 1.03646I	0
b = -0.339662 - 1.026230I		
u = 0.900430 - 0.046789I		
a = -0.397176 + 1.112830I	-5.05468 + 1.03646I	0
b = -0.339662 + 1.026230I		
u = -1.086760 + 0.180118I		
a = 0.713465 - 0.636373I	-4.06793 - 7.40314I	0
b = 0.878058 - 0.810656I		
u = -1.086760 - 0.180118I		
a = 0.713465 + 0.636373I	-4.06793 + 7.40314I	0
b = 0.878058 + 0.810656I		
u = -0.140176 + 1.097830I		
a = -0.775001 + 0.753287I	-0.40231 + 5.62337I	0
b = 1.66028 + 0.97911I		
u = -0.140176 - 1.097830I		
a = -0.775001 - 0.753287I	-0.40231 - 5.62337I	0
b = 1.66028 - 0.97911I		
u = 0.426724 + 1.022610I		
a = 0.58526 - 1.58454I	4.97692 - 1.74200I	0
b = 0.851671 - 0.204040I		
u = 0.426724 - 1.022610I		
a = 0.58526 + 1.58454I	4.97692 + 1.74200I	0
b = 0.851671 + 0.204040I		
u = -0.524600 + 0.981032I		
a = 0.28788 - 1.61252I	-3.70188 + 0.64618I	0
b = -0.874971 - 0.728989I		
u = -0.524600 - 0.981032I		
a = 0.28788 + 1.61252I	-3.70188 - 0.64618I	0
b = -0.874971 + 0.728989I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.580959 + 0.951792I		
a = -0.0248179 - 0.0641107I	-1.84881 - 0.08227I	0
b = -0.107435 - 1.096290I		
u = 0.580959 - 0.951792I		
a = -0.0248179 + 0.0641107I	-1.84881 + 0.08227I	0
b = -0.107435 + 1.096290I		
u = 0.862039 + 0.183955I		
a = -0.405432 - 0.559651I	-1.83551 - 0.75978I	0
b = 0.106743 - 0.201309I		
u = 0.862039 - 0.183955I		
a = -0.405432 + 0.559651I	-1.83551 + 0.75978I	0
b = 0.106743 + 0.201309I		
u = -0.358626 + 0.799271I		
a = -0.561749 + 0.700866I	-3.72127 - 4.69543I	0
b = -0.854656 + 0.632934I		
u = -0.358626 - 0.799271I		
a = -0.561749 - 0.700866I	-3.72127 + 4.69543I	0
b = -0.854656 - 0.632934I		
u = -0.810082 + 0.309115I		
a = 1.166620 - 0.722612I	-5.11178 - 3.95186I	0
b = 0.705345 - 0.604688I		
u = -0.810082 - 0.309115I		
a = 1.166620 + 0.722612I	-5.11178 + 3.95186I	0
b = 0.705345 + 0.604688I		
u = -0.193125 + 1.124750I		
a = 1.244800 + 0.616625I	3.83238 + 5.89545I	0
b = -0.809450 - 0.129733I		
u = -0.193125 - 1.124750I		
a = 1.244800 - 0.616625I	3.83238 - 5.89545I	0
b = -0.809450 + 0.129733I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.138820 + 0.164637I		
a = -0.305640 + 0.820478I	-4.36546 - 6.25108I	0
b = -0.99934 + 1.00545I		
u = 1.138820 - 0.164637I		
a = -0.305640 - 0.820478I	-4.36546 + 6.25108I	0
b = -0.99934 - 1.00545I		
u = 0.538445 + 0.655385I		
a = 0.212596 + 0.780859I	-3.07556 - 3.13171I	0
b = 0.858364 + 0.936856I		
u = 0.538445 - 0.655385I		
a = 0.212596 - 0.780859I	-3.07556 + 3.13171I	0
b = 0.858364 - 0.936856I		
u = -0.062117 + 1.153960I		
a = 0.708272 - 1.119720I	4.37653 + 1.13432I	0
b = -1.019400 - 0.335192I		
u = -0.062117 - 1.153960I		
a = 0.708272 + 1.119720I	4.37653 - 1.13432I	0
b = -1.019400 + 0.335192I		
u = -0.188079 + 1.142150I		
a = -1.15646 - 1.51891I	0.39463 + 12.01480I	0
b = 0.607104 - 0.028968I		
u = -0.188079 - 1.142150I		
a = -1.15646 + 1.51891I	0.39463 - 12.01480I	0
b = 0.607104 + 0.028968I		
u = 0.736102 + 0.905107I		
a = -0.043334 - 1.355720I	-2.68288 - 9.57782I	0
b = 0.968502 - 0.832361I		
u = 0.736102 - 0.905107I		
a = -0.043334 + 1.355720I	-2.68288 + 9.57782I	0
b = 0.968502 + 0.832361I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.355516 + 1.130840I		
a = -0.580094 + 1.249070I	-3.18460 + 3.38677I	0
b = 0.668741 + 0.959909I		
u = -0.355516 - 1.130840I		
a = -0.580094 - 1.249070I	-3.18460 - 3.38677I	0
b = 0.668741 - 0.959909I		
u = 0.244466 + 1.166510I		
a = 1.06629 - 1.79403I	1.02084 - 2.51408I	0
b = -0.516603 - 0.305161I		
u = 0.244466 - 1.166510I		
a = 1.06629 + 1.79403I	1.02084 + 2.51408I	0
b = -0.516603 + 0.305161I		
u = -0.490228 + 1.093460I		
a = -0.233101 + 0.371358I	-3.04161 + 13.57980I	0
b = -0.47714 + 1.63910I		
u = -0.490228 - 1.093460I		
a = -0.233101 - 0.371358I	-3.04161 - 13.57980I	0
b = -0.47714 - 1.63910I		
u = -0.746119 + 0.944938I		
a = -0.340171 - 0.775356I	0.56651 + 1.85958I	0
b = -0.974606 - 0.535852I		
u = -0.746119 - 0.944938I		
a = -0.340171 + 0.775356I	0.56651 - 1.85958I	0
b = -0.974606 + 0.535852I		
u = -0.788840 + 0.003756I		
a = -0.76406 + 1.57952I	-6.54638 - 7.74882I	0
b = -0.360893 + 0.756966I		
u = -0.788840 - 0.003756I		
a = -0.76406 - 1.57952I	-6.54638 + 7.74882I	0
b = -0.360893 - 0.756966I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.010404 + 0.788202I		
a = -1.69188 - 0.05580I	-3.55109 - 0.61558I	0
b = 1.353060 + 0.150235I		
u = 0.010404 - 0.788202I		
a = -1.69188 + 0.05580I	-3.55109 + 0.61558I	0
b = 1.353060 - 0.150235I		
u = 0.117345 + 1.214120I		
a = -1.39998 + 0.39236I	1.35910 - 2.12759I	0
b = 0.724406 + 0.226965I		
u = 0.117345 - 1.214120I		
a = -1.39998 - 0.39236I	1.35910 + 2.12759I	0
b = 0.724406 - 0.226965I		
u = -0.409372 + 0.663565I		
a = 0.202008 - 0.396413I	0.94021 + 4.73747I	0
b = -0.24932 - 1.85810I		
u = -0.409372 - 0.663565I		
a = 0.202008 + 0.396413I	0.94021 - 4.73747I	0
b = -0.24932 + 1.85810I		
u = -0.036900 + 1.225990I		
a = 0.0357274 + 0.0759274I	1.52225 + 5.45325I	0
b = -1.83642 + 0.00945I		
u = -0.036900 - 1.225990I		
a = 0.0357274 - 0.0759274I	1.52225 - 5.45325I	0
b = -1.83642 - 0.00945I		
u = -0.692406 + 1.013370I		
a = 0.102155 - 0.916905I	2.47205 + 2.41481I	0
b = -1.149300 - 0.816536I		
u = -0.692406 - 1.013370I		
a = 0.102155 + 0.916905I	2.47205 - 2.41481I	0
b = -1.149300 + 0.816536I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.044567 + 1.228240I		
a = -0.490813 + 0.927405I	2.56471 - 4.34052I	0
b = 0.659267 - 0.048160I		
u = 0.044567 - 1.228240I		
a = -0.490813 - 0.927405I	2.56471 + 4.34052I	0
b = 0.659267 + 0.048160I		
u = 0.336003 + 1.186900I		
a = -0.437990 - 0.336466I	-1.13927 - 5.42784I	0
b = -0.117505 - 0.877127I		
u = 0.336003 - 1.186900I		
a = -0.437990 + 0.336466I	-1.13927 + 5.42784I	0
b = -0.117505 + 0.877127I		
u = 0.185955 + 1.229250I		
a = -0.222101 + 0.274080I	1.77251 - 2.64461I	0
b = 0.757082 + 0.458725I		
u = 0.185955 - 1.229250I		
a = -0.222101 - 0.274080I	1.77251 + 2.64461I	0
b = 0.757082 - 0.458725I		
u = -0.374813 + 0.650720I		
a = 0.751105 + 0.726655I	0.85173 - 4.82958I	0
b = 0.781253 - 0.462332I		
u = -0.374813 - 0.650720I		
a = 0.751105 - 0.726655I	0.85173 + 4.82958I	0
b = 0.781253 + 0.462332I		
u = 0.029709 + 1.249520I		
a = 0.250971 - 1.051620I	2.60661 - 0.68432I	0
b = -0.57655 - 1.37957I		
u = 0.029709 - 1.249520I		
a = 0.250971 + 1.051620I	2.60661 + 0.68432I	0
b = -0.57655 + 1.37957I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.176720 + 0.446425I		
a = -0.573983 + 0.039187I	-1.77145 - 1.28158I	0
b = -0.475353 - 0.042598I		
u = 1.176720 - 0.446425I		
a = -0.573983 - 0.039187I	-1.77145 + 1.28158I	0
b = -0.475353 + 0.042598I		
u = -0.413843 + 0.613598I		
a = -1.18847 + 0.91598I	-3.69020 - 1.41858I	0
b = 1.062370 + 0.743209I		
u = -0.413843 - 0.613598I		
a = -1.18847 - 0.91598I	-3.69020 + 1.41858I	0
b = 1.062370 - 0.743209I		
u = 1.165430 + 0.480837I		
a = 0.632453 + 0.455483I	-4.14766 + 3.05422I	0
b = 0.710967 + 0.606396I		
u = 1.165430 - 0.480837I		
a = 0.632453 - 0.455483I	-4.14766 - 3.05422I	0
b = 0.710967 - 0.606396I		
u = -0.434002 + 1.193680I		
a = -0.45375 + 1.35106I	-2.27502 + 8.53665I	0
b = 0.950166 + 0.860523I		
u = -0.434002 - 1.193680I		
a = -0.45375 - 1.35106I	-2.27502 - 8.53665I	0
b = 0.950166 - 0.860523I		
u = 0.534285 + 1.169180I		
a = 0.151130 + 0.398841I	-1.86834 - 5.19585I	0
b = 0.57035 + 1.38671I		
u = 0.534285 - 1.169180I		
a = 0.151130 - 0.398841I	-1.86834 + 5.19585I	0
b = 0.57035 - 1.38671I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.101997 + 1.290170I		
a = -0.851308 - 1.116910I	6.84375 - 2.94433I	0
b = 0.702914 - 0.170741I		
u = 0.101997 - 1.290170I		
a = -0.851308 + 1.116910I	6.84375 + 2.94433I	0
b = 0.702914 + 0.170741I		
u = -1.291690 + 0.129659I		
a = -0.413096 - 0.786466I	-5.4179 + 15.5806I	0
b = -0.917976 - 0.917320I		
u = -1.291690 - 0.129659I		
a = -0.413096 + 0.786466I	-5.4179 - 15.5806I	0
b = -0.917976 + 0.917320I		
u = 0.272255 + 1.273900I		
a = 0.541345 + 0.650343I	5.44305 - 5.93125I	0
b = -1.61202 + 0.91488I		
u = 0.272255 - 1.273900I		
a = 0.541345 - 0.650343I	5.44305 + 5.93125I	0
b = -1.61202 - 0.91488I		
u = -0.639282 + 0.274252I		
a = 1.28758 - 1.19826I	-5.81373 + 0.43609I	0
b = 0.376578 - 0.723367I		
u = -0.639282 - 0.274252I		
a = 1.28758 + 1.19826I	-5.81373 - 0.43609I	0
b = 0.376578 + 0.723367I		
u = 0.691982 + 0.053240I		
a = -0.70485 + 1.53560I	-2.20762 - 6.98804I	0
b = -1.150310 + 0.605693I		
u = 0.691982 - 0.053240I		
a = -0.70485 - 1.53560I	-2.20762 + 6.98804I	0
b = -1.150310 - 0.605693I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.287880 + 0.242997I		
a = 0.330960 - 0.859529I	-5.19202 - 6.55294I	0
b = 0.869127 - 0.900714I		
u = 1.287880 - 0.242997I		
a = 0.330960 + 0.859529I	-5.19202 + 6.55294I	0
b = 0.869127 + 0.900714I		
u = 0.480264 + 1.223560I		
a = 0.463576 + 0.849016I	-1.46993 - 3.91123I	0
b = -0.816084 + 1.122940I		
u = 0.480264 - 1.223560I		
a = 0.463576 - 0.849016I	-1.46993 + 3.91123I	0
b = -0.816084 - 1.122940I		
u = 0.433492 + 0.503738I		
a = -1.58591 - 1.11733I	-3.26584 - 0.82302I	0
b = 0.938251 - 0.189050I		
u = 0.433492 - 0.503738I		
a = -1.58591 + 1.11733I	-3.26584 + 0.82302I	0
b = 0.938251 + 0.189050I		
u = -1.283770 + 0.416817I		
a = 0.418690 + 0.132761I	-1.94826 - 6.48519I	0
b = 0.539371 + 0.359535I		
u = -1.283770 - 0.416817I		
a = 0.418690 - 0.132761I	-1.94826 + 6.48519I	0
b = 0.539371 - 0.359535I		
u = -0.385031 + 1.296470I		
a = 0.528181 - 1.200990I	-2.49895 + 12.04300I	0
b = -0.572218 - 0.982077I		
u = -0.385031 - 1.296470I		
a = 0.528181 + 1.200990I	-2.49895 - 12.04300I	0
b = -0.572218 + 0.982077I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.274538 + 1.325090I		
a = 1.22608 + 1.77889I	1.32447 - 2.91857I	0
b = -0.288434 + 0.222219I		
u = 0.274538 - 1.325090I		
a = 1.22608 - 1.77889I	1.32447 + 2.91857I	0
b = -0.288434 - 0.222219I		
u = -0.558478 + 0.319499I		
a = -0.63277 - 1.39515I	2.30200 + 1.92240I	0
b = -0.944801 - 0.640771I		
u = -0.558478 - 0.319499I		
a = -0.63277 + 1.39515I	2.30200 - 1.92240I	0
b = -0.944801 + 0.640771I		
u = -0.340255 + 1.321950I		
a = 0.529256 - 0.967511I	7.17502 + 5.47686I	0
b = -1.33935 - 0.84743I		
u = -0.340255 - 1.321950I		
a = 0.529256 + 0.967511I	7.17502 - 5.47686I	0
b = -1.33935 + 0.84743I		
u = -0.678733 + 1.189350I		
a = -0.223772 - 0.836565I	1.53142 + 4.27194I	0
b = -0.908377 - 0.182218I		
u = -0.678733 - 1.189350I		
a = -0.223772 + 0.836565I	1.53142 - 4.27194I	0
b = -0.908377 + 0.182218I		
u = 0.424936 + 1.337140I		
a = 0.717288 + 1.163500I	2.15184 - 11.31530I	0
b = -1.27396 + 0.69128I		
u = 0.424936 - 1.337140I		
a = 0.717288 - 1.163500I	2.15184 + 11.31530I	0
b = -1.27396 - 0.69128I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.554917 + 1.297440I		
a = -0.432387 + 1.101860I	-0.48742 + 13.18960I	0
b = 1.28486 + 0.92213I		
u = -0.554917 - 1.297440I		
a = -0.432387 - 1.101860I	-0.48742 - 13.18960I	0
b = 1.28486 - 0.92213I		
u = 0.25146 + 1.39545I		
a = -0.498043 - 0.936724I	4.13108 - 12.16480I	0
b = 1.28754 - 1.06397I		
u = 0.25146 - 1.39545I		
a = -0.498043 + 0.936724I	4.13108 + 12.16480I	0
b = 1.28754 + 1.06397I		
u = 0.516869 + 0.255969I		
a = -0.683349 + 0.457759I	-1.92383 + 0.25450I	0
b = 0.185207 - 0.561544I		
u = 0.516869 - 0.255969I		
a = -0.683349 - 0.457759I	-1.92383 - 0.25450I	0
b = 0.185207 + 0.561544I		
u = -0.29823 + 1.39563I		
a = -0.084692 + 0.736741I	7.29470 - 1.68908I	0
b = 0.795401 + 0.138610I		
u = -0.29823 - 1.39563I		
a = -0.084692 - 0.736741I	7.29470 + 1.68908I	0
b = 0.795401 - 0.138610I		
u = -0.33941 + 1.40876I		
a = -0.469823 + 0.569179I	4.13206 - 1.76042I	0
b = 1.50303 + 0.79571I		
u = -0.33941 - 1.40876I		
a = -0.469823 - 0.569179I	4.13206 + 1.76042I	0
b = 1.50303 - 0.79571I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.46363 + 1.38457I		
a = -0.025719 + 0.774384I	1.89038 + 0.07032I	0
b = -0.514273 - 0.047038I		
u = 0.46363 - 1.38457I		
a = -0.025719 - 0.774384I	1.89038 - 0.07032I	0
b = -0.514273 + 0.047038I		
u = 0.490479 + 0.201597I		
a = -1.248070 + 0.124293I	-1.99639 + 4.27770I	0
b = -0.656366 - 0.959070I		
u = 0.490479 - 0.201597I		
a = -1.248070 - 0.124293I	-1.99639 - 4.27770I	0
b = -0.656366 + 0.959070I		
u = 1.08987 + 0.98787I		
a = 0.175388 + 0.184109I	-2.80365 - 1.22957I	0
b = 0.294606 + 0.637794I		
u = 1.08987 - 0.98787I		
a = 0.175388 - 0.184109I	-2.80365 + 1.22957I	0
b = 0.294606 - 0.637794I		
u = 0.45433 + 1.40218I		
a = -0.539132 - 0.959559I	3.42390 - 7.26474I	0
b = 1.171750 - 0.637547I		
u = 0.45433 - 1.40218I		
a = -0.539132 + 0.959559I	3.42390 + 7.26474I	0
b = 1.171750 + 0.637547I		
u = 0.45498 + 1.40511I		
a = -0.361787 - 0.797078I	3.24566 - 5.64780I	0
b = 0.809915 - 0.326794I		
u = 0.45498 - 1.40511I		
a = -0.361787 + 0.797078I	3.24566 + 5.64780I	0
b = 0.809915 + 0.326794I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.082253 + 0.505396I		
a = -1.23209 - 0.87037I	1.66276 - 2.32132I	0
b = 0.747455 + 0.450296I		
u = -0.082253 - 0.505396I		
a = -1.23209 + 0.87037I	1.66276 + 2.32132I	0
b = 0.747455 - 0.450296I		
u = 0.26307 + 1.47286I		
a = 0.150364 + 0.582759I	5.12491 - 5.91315I	0
b = -0.958767 + 0.440301I		
u = 0.26307 - 1.47286I		
a = 0.150364 - 0.582759I	5.12491 + 5.91315I	0
b = -0.958767 - 0.440301I		
u = 0.53274 + 1.40657I		
a = 0.570014 + 0.912147I	0.47390 - 12.14240I	0
b = -1.41995 + 0.88553I		
u = 0.53274 - 1.40657I		
a = 0.570014 - 0.912147I	0.47390 + 12.14240I	0
b = -1.41995 - 0.88553I		
u = 0.64017 + 1.37602I		
a = -0.097450 + 0.779510I	1.58596 - 5.28856I	0
b = -0.731556 + 0.369793I		
u = 0.64017 - 1.37602I		
a = -0.097450 - 0.779510I	1.58596 + 5.28856I	0
b = -0.731556 - 0.369793I		
u = -0.64275 + 1.37849I		
a = 0.068645 + 0.862957I	1.61217 + 13.41700I	0
b = 0.889647 + 0.283222I		
u = -0.64275 - 1.37849I		
a = 0.068645 - 0.862957I	1.61217 - 13.41700I	0
b = 0.889647 - 0.283222I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.63922 + 1.38048I		
a = -0.308348 + 0.896112I	4.3790 + 13.4789I	0
b = 1.31197 + 0.91242I		
u = -0.63922 - 1.38048I		
a = -0.308348 - 0.896112I	4.3790 - 13.4789I	0
b = 1.31197 - 0.91242I		
u = -1.52103 + 0.18694I		
a = 0.341080 - 0.311366I	0.43135 - 6.45917I	0
b = 0.599751 - 0.751990I		
u = -1.52103 - 0.18694I		
a = 0.341080 + 0.311366I	0.43135 + 6.45917I	0
b = 0.599751 + 0.751990I		
u = 0.63716 + 1.39641I		
a = -0.499958 - 0.731279I	1.08360 - 7.04644I	0
b = 1.39582 - 0.78494I		
u = 0.63716 - 1.39641I		
a = -0.499958 + 0.731279I	1.08360 + 7.04644I	0
b = 1.39582 + 0.78494I		
u = -0.57526 + 1.44423I		
a = 0.459658 - 1.009860I	-0.5322 + 22.0396I	0
b = -1.30488 - 0.93183I		
u = -0.57526 - 1.44423I		
a = 0.459658 + 1.009860I	-0.5322 - 22.0396I	0
b = -1.30488 + 0.93183I		
u = -0.107291 + 0.410893I		
a = -1.30911 - 3.21910I	-1.95037 - 10.40300I	0
b = 0.778970 - 0.716836I		
u = -0.107291 - 0.410893I		
a = -1.30911 + 3.21910I	-1.95037 + 10.40300I	0
b = 0.778970 + 0.716836I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.08016 + 1.57882I		
a = 0.952471 + 0.276697I	2.86571 - 5.62153I	0
b = -1.170420 + 0.238847I		
u = 0.08016 - 1.57882I		
a = 0.952471 - 0.276697I	2.86571 + 5.62153I	0
b = -1.170420 - 0.238847I		
u = -0.150561 + 0.383638I		
a = 0.953151 + 1.005440I	-2.38742 - 4.15705I	0
b = 0.861598 - 0.944662I		
u = -0.150561 - 0.383638I		
a = 0.953151 - 1.005440I	-2.38742 + 4.15705I	0
b = 0.861598 + 0.944662I		
u = 0.57877 + 1.48013I		
a = -0.449771 - 1.003250I	0.09724 - 13.08690I	0
b = 1.22549 - 0.91761I		
u = 0.57877 - 1.48013I		
a = -0.449771 + 1.003250I	0.09724 + 13.08690I	0
b = 1.22549 + 0.91761I		
u = 0.60104 + 1.48648I		
a = 0.381029 + 0.702407I	1.69527 - 7.88022I	0
b = -1.29270 + 1.01076I		
u = 0.60104 - 1.48648I		
a = 0.381029 - 0.702407I	1.69527 + 7.88022I	0
b = -1.29270 - 1.01076I		
u = 0.320485 + 0.208109I		
a = 3.27064 - 2.86234I	-1.83951 + 0.20390I	0
b = -0.454573 - 0.520380I		
u = 0.320485 - 0.208109I		
a = 3.27064 + 2.86234I	-1.83951 - 0.20390I	0
b = -0.454573 + 0.520380I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.65109 + 0.03823I		
a = -0.014839 + 0.398773I	-3.29052 - 0.34818I	0
b = 0.184142 + 1.328770I		
u = 1.65109 - 0.03823I		
a = -0.014839 - 0.398773I	-3.29052 + 0.34818I	0
b = 0.184142 - 1.328770I		
u = -0.13769 + 1.66581I		
a = -0.486087 - 0.024133I	-1.72259 - 4.44517I	0
b = 0.245622 + 0.013531I		
u = -0.13769 - 1.66581I		
a = -0.486087 + 0.024133I	-1.72259 + 4.44517I	0
b = 0.245622 - 0.013531I		
u = -0.85381 + 1.47623I		
a = -0.118402 - 0.449295I	3.40224 + 5.10531I	0
b = -0.702620 + 0.020949I		
u = -0.85381 - 1.47623I		
a = -0.118402 + 0.449295I	3.40224 - 5.10531I	0
b = -0.702620 - 0.020949I		
u = 0.17526 + 1.70351I		
a = -0.0703377 - 0.0314505I	3.47373 - 2.71578I	0
b = 0.812824 - 0.043217I		
u = 0.17526 - 1.70351I		
a = -0.0703377 + 0.0314505I	3.47373 + 2.71578I	0
b = 0.812824 + 0.043217I		
u = -0.263057 + 0.019011I		
a = -2.54197 - 0.13476I	1.196190 - 0.009281I	8.77806 - 0.26747I
b = -0.803087 + 0.073217I		
u = -0.263057 - 0.019011I		
a = -2.54197 + 0.13476I	1.196190 + 0.009281I	8.77806 + 0.26747I
b = -0.803087 - 0.073217I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.090317 + 0.147882I		
a = 1.22492 + 3.25701I	1.08179 - 4.07828I	6.00525 + 1.10470I
b = -0.840218 + 0.985286I		
u = -0.090317 - 0.147882I		
a = 1.22492 - 3.25701I	1.08179 + 4.07828I	6.00525 - 1.10470I
b = -0.840218 - 0.985286I		
u = -1.58700 + 1.60283I		
a = -0.0644766 + 0.0357777I	-1.80807 - 7.13422I	0
b = -0.255507 + 0.434108I		
u = -1.58700 - 1.60283I		
a = -0.0644766 - 0.0357777I	-1.80807 + 7.13422I	0
b = -0.255507 - 0.434108I		

II.
$$I_2^u = \langle -4.00 \times 10^{62} u^{47} + 3.62 \times 10^{63} u^{46} + \dots + 2.54 \times 10^{62} b - 2.50 \times 10^{63}, \ -3.34 \times 10^{64} u^{47} + 5.35 \times 10^{65} u^{46} + \dots + 1.48 \times 10^{65} a + 1.07 \times 10^{67}, \ u^{48} - 9u^{47} + \dots - 58u + 53 \rangle$$

(i) Arc colorings

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

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

$$a_{5} = \begin{pmatrix} 0.225742u^{47} - 3.61270u^{46} + \dots + 106.244u - 72.0148 \\ 1.57485u^{47} - 14.2592u^{46} + \dots + 55.1207u + 9.82815 \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 0.854401u^{47} - 9.79599u^{46} + \dots + 161.340u - 102.944 \\ 0.0738944u^{47} + 0.268820u^{46} + \dots - 57.0125u + 50.3601 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -1.34911u^{47} + 10.6465u^{46} + \dots + 51.1232u - 81.8429 \\ 1.57485u^{47} - 14.2592u^{46} + \dots + 55.1207u + 9.82815 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 1.39026u^{47} - 17.0558u^{46} + \dots + 343.130u - 219.948 \\ 0.423039u^{47} - 1.16830u^{46} + \dots - 167.286u + 145.696 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.420142u^{47} + 7.15431u^{46} + \dots - 227.545u + 152.553 \\ -1.90444u^{47} + 15.1589u^{46} + \dots + 30.9188u - 96.1049 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.0131832u^{47} - 4.26912u^{46} + \dots + 270.688u - 234.401 \\ 1.52462u^{47} - 12.7165u^{46} + \dots - 25.4571u + 75.8153 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} -1.25910u^{47} + 10.2265u^{46} + \dots + 27.9147u - 59.4887 \\ 1.78191u^{47} - 16.3561u^{46} + \dots + 83.0703u - 2.84990 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.48395u^{47} - 22.0198u^{46} + \dots + 130.913u + 3.15683 \\ 1.67073u^{47} - 13.7389u^{46} + \dots + 28.1646u + 68.8728 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-7.09207u^{47} + 63.7960u^{46} + \cdots 337.971u 78.4205$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$11(11u^{48} - 162u^{47} + \dots + 5u + 5)$
c_2	$u^{48} + 3u^{47} + \dots + 9u + 11$
c_3	$u^{48} + 4u^{47} + \dots + 111u + 97$
c_4	$u^{48} - 3u^{47} + \dots + 79u + 11$
<i>C</i> ₅	$11(11u^{48} - 51u^{47} + \dots - 2440u + 425)$
	$11(11u^{48} - 73u^{47} + \dots - 5u + 1)$
	$u^{48} - 2u^{47} + \dots + 63u + 11$
<i>C</i> ₈	$u^{48} - 9u^{47} + \dots - 58u + 53$
<i>c</i> 9	$u^{48} - 2u^{47} + \dots - 19u + 17$
c_{10}	$u^{48} + 17u^{46} + \dots + 29u + 11$
c_{11}	$u^{48} + 9u^{47} + \dots + 58u + 53$
c_{12}	$11(11u^{48} - 30u^{47} + \dots + u + 1)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$121(121y^{48} + 464y^{47} + \dots - 565y + 25)$
c_2	$y^{48} + 3y^{47} + \dots + 2009y + 121$
<i>c</i> ₃	$y^{48} - 14y^{47} + \dots - 313215y + 9409$
c_4	$y^{48} - 11y^{47} + \dots - 3513y + 121$
<i>C</i> ₅	$121(121y^{48} + 1073y^{47} + \dots + 2323700y + 180625)$
	$121(121y^{48} - 1831y^{47} + \dots - 45y + 1)$
<i>C</i> ₇	$y^{48} - 6y^{47} + \dots + 2015y + 121$
c_8,c_{11}	$y^{48} + 27y^{47} + \dots + 23348y + 2809$
<i>C</i> 9	$y^{48} + 30y^{47} + \dots + 2325y + 289$
c_{10}	$y^{48} + 34y^{47} + \dots - 71y + 121$
c_{12}	$121(121y^{48} - 1956y^{47} + \dots + 43y + 1)$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.020560 + 0.059578I		
a = -0.521931 + 0.889670I	-3.67958 - 6.17156I	0
b = -0.947963 + 0.871301I		
u = 1.020560 - 0.059578I		
a = -0.521931 - 0.889670I	-3.67958 + 6.17156I	0
b = -0.947963 - 0.871301I		
u = -0.423085 + 0.877949I		
a = 0.266538 + 0.188081I	-0.34347 - 5.13110I	0
b = 0.939177 - 0.619835I		
u = -0.423085 - 0.877949I		
a = 0.266538 - 0.188081I	-0.34347 + 5.13110I	0
b = 0.939177 + 0.619835I		
u = -0.081942 + 1.036290I		
a = 0.37493 - 1.76994I	5.59252 + 0.37644I	0
b = -0.940809 - 0.260618I		
u = -0.081942 - 1.036290I		
a = 0.37493 + 1.76994I	5.59252 - 0.37644I	0
b = -0.940809 + 0.260618I		
u = -0.099045 + 1.047180I		
a = -0.793639 + 0.712742I	0.24028 + 6.55226I	0
b = 1.81621 + 0.92537I		
u = -0.099045 - 1.047180I		
a = -0.793639 - 0.712742I	0.24028 - 6.55226I	0
b = 1.81621 - 0.92537I		
u = 0.463047 + 0.963662I		
a = -0.310972 - 0.398632I	-2.01422 - 4.12574I	0
b = -0.366384 - 1.292500I		
u = 0.463047 - 0.963662I		
a = -0.310972 + 0.398632I	-2.01422 + 4.12574I	0
b = -0.366384 + 1.292500I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.348415 + 1.012460I		
a = 0.424751 + 1.049490I	-1.81681 - 5.89795I	0
b = -1.13700 + 1.17464I		
u = 0.348415 - 1.012460I		
a = 0.424751 - 1.049490I	-1.81681 + 5.89795I	0
b = -1.13700 - 1.17464I		
u = -0.260060 + 0.891799I		
a = 0.40328 + 1.69209I	-1.16378 + 3.86933I	0
b = 0.442482 + 0.737460I		
u = -0.260060 - 0.891799I		
a = 0.40328 - 1.69209I	-1.16378 - 3.86933I	0
b = 0.442482 - 0.737460I		
u = 0.322283 + 1.058810I		
a = -0.32019 + 1.97438I	4.52416 - 1.33006I	0
b = -0.724819 + 0.171705I		
u = 0.322283 - 1.058810I		
a = -0.32019 - 1.97438I	4.52416 + 1.33006I	0
b = -0.724819 - 0.171705I		
u = 0.848431 + 0.168472I		
a = 0.131548 + 1.127480I	-4.13960 - 0.14350I	-5.03839 + 0.I
b = -0.817155 + 0.860898I		
u = 0.848431 - 0.168472I		
a = 0.131548 - 1.127480I	-4.13960 + 0.14350I	-5.03839 + 0.I
b = -0.817155 - 0.860898I		
u = 1.012300 + 0.588873I		
a = 0.571286 - 0.229065I	-2.05709 - 1.10515I	0
b = 0.256746 + 0.158411I		
u = 1.012300 - 0.588873I		
a = 0.571286 + 0.229065I	-2.05709 + 1.10515I	0
b = 0.256746 - 0.158411I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.254540 + 1.156020I		
a = 0.1403580 - 0.0076218I	2.11157 + 4.11612I	0
b = -1.35018 + 0.64574I		
u = -0.254540 - 1.156020I		
a = 0.1403580 + 0.0076218I	2.11157 - 4.11612I	0
b = -1.35018 - 0.64574I		
u = 0.740640 + 0.925361I		
a = 0.304689 - 0.715656I	0.78218 - 1.87843I	0
b = 0.921977 - 0.586632I		
u = 0.740640 - 0.925361I		
a = 0.304689 + 0.715656I	0.78218 + 1.87843I	0
b = 0.921977 + 0.586632I		
u = -0.380631 + 1.128760I		
a = -0.175743 - 1.390820I	-0.94551 + 12.60900I	0
b = -0.455920 - 0.846300I		
u = -0.380631 - 1.128760I		
a = -0.175743 + 1.390820I	-0.94551 - 12.60900I	0
b = -0.455920 + 0.846300I		
u = -0.105071 + 1.203420I		
a = 0.404050 - 0.661355I	2.97536 - 1.85225I	0
b = -1.16970 - 1.46170I		
u = -0.105071 - 1.203420I		
a = 0.404050 + 0.661355I	2.97536 + 1.85225I	0
b = -1.16970 + 1.46170I		
u = -0.423640 + 0.652872I		
a = 0.202449 + 0.607854I	1.27459 + 4.73327I	12.6951 - 12.6295I
b = 0.57156 + 1.48292I		
u = -0.423640 - 0.652872I		
a = 0.202449 - 0.607854I	1.27459 - 4.73327I	12.6951 + 12.6295I
b = 0.57156 - 1.48292I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.134521 + 1.261510I		
a = -1.67845 + 1.30001I	1.46152 - 2.69471I	0
b = 0.382572 + 0.089416I		
u = 0.134521 - 1.261510I		
a = -1.67845 - 1.30001I	1.46152 + 2.69471I	0
b = 0.382572 - 0.089416I		
u = 0.113169 + 1.372220I		
a = -0.622355 - 0.264786I	5.61016 - 3.95415I	0
b = 0.972714 - 0.428116I		
u = 0.113169 - 1.372220I		
a = -0.622355 + 0.264786I	5.61016 + 3.95415I	0
b = 0.972714 + 0.428116I		
u = 0.095583 + 0.567339I		
a = 1.91480 + 0.38451I	-4.06186 + 0.64645I	-14.2909 + 1.0254I
b = -1.265590 + 0.418189I		
u = 0.095583 - 0.567339I		
a = 1.91480 - 0.38451I	-4.06186 - 0.64645I	-14.2909 - 1.0254I
b = -1.265590 - 0.418189I		
u = 0.52071 + 1.38516I		
a = 0.535218 + 0.987297I	0.85421 - 11.76320I	0
b = -1.33404 + 0.87930I		
u = 0.52071 - 1.38516I		
a = 0.535218 - 0.987297I	0.85421 + 11.76320I	0
b = -1.33404 - 0.87930I		
u = 0.62422 + 1.38740I		
a = -0.007551 - 0.668605I	2.52561 - 4.46494I	0
b = 0.745450 - 0.195378I		
u = 0.62422 - 1.38740I		
a = -0.007551 + 0.668605I	2.52561 + 4.46494I	0
b = 0.745450 + 0.195378I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.47713 + 1.50793I		
a = -0.550172 - 0.704910I	2.34916 - 7.47849I	0
b = 1.35345 - 0.76061I		
u = 0.47713 - 1.50793I		
a = -0.550172 + 0.704910I	2.34916 + 7.47849I	0
b = 1.35345 + 0.76061I		
u = 1.66038 + 0.24868I		
a = -0.033942 - 0.388097I	-3.38739 - 0.10775I	0
b = -0.029506 - 1.234790I		
u = 1.66038 - 0.24868I		
a = -0.033942 + 0.388097I	-3.38739 + 0.10775I	0
b = -0.029506 + 1.234790I		
u = -0.245794 + 0.145315I		
a = 2.34820 - 4.07379I	-5.03821 + 6.07898I	-6.31753 - 5.17162I
b = 0.896756 + 0.034256I		
u = -0.245794 - 0.145315I		
a = 2.34820 + 4.07379I	-5.03821 - 6.07898I	-6.31753 + 5.17162I
b = 0.896756 - 0.034256I		
u = -1.60757 + 1.31899I		
a = -0.145236 - 0.096912I	-1.65380 - 7.12368I	0
b = -0.260032 + 0.322078I		
u = -1.60757 - 1.31899I		
a = -0.145236 + 0.096912I	-1.65380 + 7.12368I	0
b = -0.260032 - 0.322078I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$121(11u^{48} - 162u^{47} + \dots + 5u + 5)$ $\cdot (11u^{204} + 171u^{203} + \dots - 6231u + 443)$
c_2	$(u^{48} + 3u^{47} + \dots + 9u + 11)(u^{204} - 6u^{203} + \dots + 6585u + 737)$
c_3	$(u^{48} + 4u^{47} + \dots + 111u + 97)$ $\cdot (u^{204} - 3u^{203} + \dots - 2321327084713u + 643304208535)$
c_4	$(u^{48} - 3u^{47} + \dots + 79u + 11)$ $\cdot (u^{204} + 2u^{203} + \dots + 6641457u + 742643)$
c_5	$121(11u^{48} - 51u^{47} + \dots - 2440u + 425)$ $\cdot (11u^{204} + 14u^{203} + \dots + 15241257498888u + 1117928706065)$
c_6	$121(11u^{48} - 73u^{47} + \dots - 5u + 1)(11u^{204} + 58u^{203} + \dots + 15u + 1)$
c_7	$(u^{48} - 2u^{47} + \dots + 63u + 11)(u^{204} + u^{203} + \dots + 8125089u + 260381)$
c_8	$(u^{48} - 9u^{47} + \dots - 58u + 53)$ $\cdot (u^{204} + 6u^{203} + \dots - 13656618u + 2485901)$
c_9	$(u^{48} - 2u^{47} + \dots - 19u + 17)$ $\cdot (u^{204} + u^{203} + \dots - 408235371u + 22543039)$
c_{10}	$(u^{48} + 17u^{46} + \dots + 29u + 11)(u^{204} + u^{203} + \dots - 733531u + 192929)$
c_{11}	$(u^{48} + 9u^{47} + \dots + 58u + 53)$ $\cdot (u^{204} + 6u^{203} + \dots - 13656618u + 2485901)$
c ₁₂	$121(11u^{48} - 30u^{47} + \dots + u + 1)(11u^{204} + 61u^{203} + \dots + 23u + 1)$ 36

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$14641(121y^{48} + 464y^{47} + \dots - 565y + 25)$ $\cdot (121y^{204} + 41y^{203} + \dots + 74620737y + 196249)$
c_2	$(y^{48} + 3y^{47} + \dots + 2009y + 121)$ $\cdot (y^{204} + 16y^{203} + \dots + 58072559y + 543169)$
c_3	$(y^{48} - 14y^{47} + \dots - 313215y + 9409)$ $\cdot (y^{204} - 89y^{203} + \dots - 2.86 \times 10^{25}y + 4.14 \times 10^{23})$
c_4	$(y^{48} - 11y^{47} + \dots - 3513y + 121)$ $\cdot (y^{204} - 46y^{203} + \dots - 47363971689995y + 551518625449)$
c_5	$14641(121y^{48} + 1073y^{47} + \dots + 2323700y + 180625)$ $\cdot (121y^{204} + 9374y^{203} + \dots + 3.13 \times 10^{25}y + 1.25 \times 10^{24})$
c_6	$14641(121y^{48} - 1831y^{47} + \dots - 45y + 1)$ $\cdot (121y^{204} - 2726y^{203} + \dots + 117y + 1)$
c_7	$(y^{48} - 6y^{47} + \dots + 2015y + 121)$ $\cdot (y^{204} + 23y^{203} + \dots + 11743856834025y + 67798265161)$
c_8, c_{11}	$(y^{48} + 27y^{47} + \dots + 23348y + 2809)$ $\cdot (y^{204} + 132y^{203} + \dots + 357972369982526y + 6179703781801)$
<i>c</i> 9	$(y^{48} + 30y^{47} + \dots + 2325y + 289)$ $\cdot (y^{204} - 9y^{203} + \dots - 45177724753263541y + 508188607355521)$
c_{10}	$(y^{48} + 34y^{47} + \dots - 71y + 121)$ $\cdot (y^{204} + 59y^{203} + \dots + 6380936510163y + 37221599041)$
c_{12}	$14641(121y^{48} - 1956y^{47} + \dots + 43y + 1) $ $\cdot (121y^{204} - 3831y^{203} + \dots + 105y + 1)$