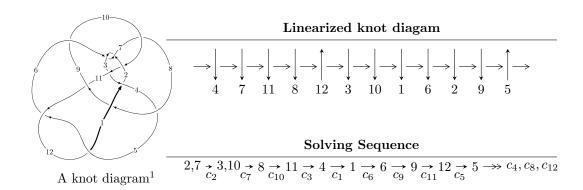
$12a_{1098} \ (K12a_{1098})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.26039 \times 10^{1096} u^{194} - 5.54845 \times 10^{1096} u^{193} + \dots + 8.23984 \times 10^{1095} b + 9.42064 \times 10^{1099}, \\ &\quad 2.37059 \times 10^{1099} u^{194} - 6.13693 \times 10^{1099} u^{193} + \dots + 4.63779 \times 10^{1099} a - 5.55624 \times 10^{1103}, \\ &\quad u^{195} - 4u^{194} + \dots + 113416u - 11257 \rangle \\ I_2^u &= \langle 1.09077 \times 10^{50} u^{48} - 2.47702 \times 10^{51} u^{47} + \dots + 9.36422 \times 10^{50} b + 5.62660 \times 10^{51}, \\ &\quad - 2.12833 \times 10^{51} u^{48} + 2.10958 \times 10^{51} u^{47} + \dots + 2.34105 \times 10^{51} a - 1.43194 \times 10^{51}, \ u^{49} - u^{48} + \dots + u - 10^{51} u^{48} + 10^{51} u^{54} + 10^{51} u^{54} u^{54} + 10^{51} u^{54} u^{54} + 10^{51} u^{54} u^{54} u^{54} + 10^{51} u^{54} u^{$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 244 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.
$$I_1^u = \langle 1.26 \times 10^{1096} u^{194} - 5.55 \times 10^{1096} u^{193} + \dots + 8.24 \times 10^{1095} b + 9.42 \times 10^{1099}, \ 2.37 \times 10^{1099} u^{194} - 6.14 \times 10^{1099} u^{193} + \dots + 4.64 \times 10^{1099} a - 5.56 \times 10^{1103}, \ u^{195} - 4u^{194} + \dots + 113416u - 11257 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \\ \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.511146u^{194} + 1.32324u^{193} + \cdots - 111315.u + 11980.3 \\ -1.52962u^{194} + 6.73368u^{193} + \cdots + 145905.u - 11433.0 \\ \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -1.47117u^{194} + 4.65577u^{193} + \cdots - 211659.u + 23522.7 \\ -0.673752u^{194} + 3.08530u^{193} + \cdots + 111463.u - 9696.62 \\ \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.01848u^{194} - 5.41044u^{193} + \cdots - 257220.u + 23413.4 \\ -1.52962u^{194} + 6.73368u^{193} + \cdots + 145905.u - 11433.0 \\ \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.586225u^{194} - 1.53369u^{193} + \cdots + 165820.u - 17237.5 \\ -1.34404u^{194} + 5.86482u^{193} + \cdots + 77525.5u - 5505.19 \\ \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.151020u^{194} - 0.597552u^{193} + \cdots + 44952.6u - 4866.48 \\ 0.439914u^{194} - 1.61276u^{193} + \cdots - 25671.4u + 1685.20 \\ \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.120201u^{194} - 1.70426u^{193} + \cdots - 25671.4u + 1685.20 \\ -1.08301u^{194} + 4.59774u^{193} + \cdots + 87405.6u - 6433.53 \\ \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.120201u^{194} - 1.70426u^{193} + \cdots + 215956.u - 21265.2 \\ -0.0681673u^{194} + 0.197496u^{193} + \cdots + 22256.9u + 2233.41 \\ \end{pmatrix}$$

$$a_{13} = \begin{pmatrix} 1.97245u^{194} - 7.45707u^{193} + \cdots - 14130.9u - 2521.77 \\ -0.169214u^{194} + 0.611793u^{193} + \cdots - 22516.2u + 2913.54 \\ \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-2.69583u^{194} + 0.189744u^{193} + \cdots 1.88279 \times 10^6u + 187667$.

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{195} - 16u^{194} + \dots - 2141u + 88$
c_2, c_6	$u^{195} + 4u^{194} + \dots + 113416u + 11257$
<i>c</i> ₃	$u^{195} - 3u^{194} + \dots + 217741u + 10918$
c_4	$u^{195} + 4u^{194} + \dots + 51821u + 2894$
c_5,c_{12}	$u^{195} - 3u^{194} + \dots + 23431u + 1133$
	$u^{195} + 11u^{194} + \dots + 218148168u + 31728989$
<i>c</i> ₈	$2(2u^{195} + 7u^{194} + \dots - 49u + 5)$
<i>C</i> 9	$2(2u^{195} - 9u^{194} + \dots - 5.76855 \times 10^7 u + 4.42253 \times 10^7)$
c_{10}	$2(2u^{195} + 25u^{194} + \dots + 1.02982 \times 10^7 u + 574285)$
c_{11}	$u^{195} + 8u^{194} + \dots + 12939u + 1819$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{195} + 62y^{194} + \dots - 185895y - 7744$
c_2, c_6	$y^{195} + 116y^{194} + \dots - 6845116264y - 126720049$
<i>C</i> ₃	$y^{195} + 45y^{194} + \dots + 993877489y - 119202724$
c_4	$y^{195} - 28y^{194} + \dots + 583712209y - 8375236$
c_5, c_{12}	$y^{195} + 147y^{194} + \dots + 20891003y - 1283689$
C ₇	$y^{195} + 9y^{194} + \dots - 60843014639712268y - 1006728742962121$
c ₈	$4(4y^{195} - 73y^{194} + \dots + 211y - 25)$
<i>c</i> ₉	$ 4 \\ \cdot (4y^{195} - 261y^{194} + \dots + 8953659438498701y - 1955874418122361) $
c_{10}	$4(4y^{195} + 159y^{194} + \dots + 1.74880 \times 10^{13}y - 3.29803 \times 10^{11})$
c_{11}	$y^{195} - 42y^{194} + \dots - 2071600293y - 3308761$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.229847 + 0.974311I		
a = 0.30308 + 1.40779I	-1.80544 + 4.08060I	0
b = 0.55537 - 1.33039I		
u = -0.229847 - 0.974311I		
a = 0.30308 - 1.40779I	-1.80544 - 4.08060I	0
b = 0.55537 + 1.33039I		
u = -0.635598 + 0.766858I		
a = 0.175078 - 0.073876I	-4.27809 - 4.36087I	0
b = -0.615392 - 1.058350I		
u = -0.635598 - 0.766858I		
a = 0.175078 + 0.073876I	-4.27809 + 4.36087I	0
b = -0.615392 + 1.058350I		
u = -0.213608 + 0.982090I		
a = -0.284603 + 0.247759I	-2.58548 + 5.44227I	0
b = -1.11742 - 1.69158I		
u = -0.213608 - 0.982090I		
a = -0.284603 - 0.247759I	-2.58548 - 5.44227I	0
b = -1.11742 + 1.69158I		
u = 0.044460 + 1.009420I		
a = -1.76948 + 0.19269I	1.66899 - 5.60569I	0
b = -0.775797 - 0.693267I		
u = 0.044460 - 1.009420I		
a = -1.76948 - 0.19269I	1.66899 + 5.60569I	0
b = -0.775797 + 0.693267I		
u = 0.081752 + 1.008600I		
a = 1.42458 + 1.07381I	3.96016 + 0.37043I	0
b = 0.352065 - 0.913459I		
u = 0.081752 - 1.008600I		
a = 1.42458 - 1.07381I	3.96016 - 0.37043I	0
b = 0.352065 + 0.913459I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.340357 + 0.927028I		
a = 0.99354 - 1.55193I	-3.83954 + 6.18863I	0
b = 0.153232 - 0.041064I		
u = -0.340357 - 0.927028I		
a = 0.99354 + 1.55193I	-3.83954 - 6.18863I	0
b = 0.153232 + 0.041064I		
u = -0.949863 + 0.352493I		
a = 0.331428 + 0.731583I	-1.59057 + 0.63800I	0
b = -0.145725 + 0.629283I		
u = -0.949863 - 0.352493I		
a = 0.331428 - 0.731583I	-1.59057 - 0.63800I	0
b = -0.145725 - 0.629283I		
u = 0.985579 + 0.005049I		
a = 0.820488 + 0.440894I	-3.41252 - 2.70500I	0
b = 0.875081 + 0.811497I		
u = 0.985579 - 0.005049I		
a = 0.820488 - 0.440894I	-3.41252 + 2.70500I	0
b = 0.875081 - 0.811497I		
u = -0.279959 + 0.939793I		
a = -0.482096 - 0.337591I	1.84118 + 6.62127I	0
b = -1.94105 - 0.40614I		
u = -0.279959 - 0.939793I		
a = -0.482096 + 0.337591I	1.84118 - 6.62127I	0
b = -1.94105 + 0.40614I		
u = -0.956595 + 0.206169I		
a = 0.488973 + 1.095580I	-0.50653 - 4.70693I	0
b = 0.690719 + 0.974454I		
u = -0.956595 - 0.206169I		
a = 0.488973 - 1.095580I	-0.50653 + 4.70693I	0
b = 0.690719 - 0.974454I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.215211 + 1.000710I		
a = -1.101110 + 0.746345I	-2.79903 - 1.55519I	0
b = -1.71977 + 0.31148I		
u = 0.215211 - 1.000710I		
a = -1.101110 - 0.746345I	-2.79903 + 1.55519I	0
b = -1.71977 - 0.31148I		
u = -0.151109 + 1.016340I		
a = 0.89528 - 1.95590I	3.11920 + 5.88513I	0
b = -0.218993 + 0.567699I		
u = -0.151109 - 1.016340I		
a = 0.89528 + 1.95590I	3.11920 - 5.88513I	0
b = -0.218993 - 0.567699I		
u = 0.842804 + 0.455707I		
a = -0.344177 + 1.272260I	-2.98538 + 5.10576I	0
b = -0.84360 + 1.17309I		
u = 0.842804 - 0.455707I		
a = -0.344177 - 1.272260I	-2.98538 - 5.10576I	0
b = -0.84360 - 1.17309I		
u = -0.998905 + 0.299241I		
a = 0.700680 - 1.097540I	-0.77731 + 7.34371I	0
b = 0.581880 - 0.818240I		
u = -0.998905 - 0.299241I		
a = 0.700680 + 1.097540I	-0.77731 - 7.34371I	0
b = 0.581880 + 0.818240I		
u = 0.463041 + 0.837478I		
a = 1.32810 + 0.70895I	0.80944 + 4.01559I	0
b = -0.040835 + 1.061810I		
u = 0.463041 - 0.837478I		
a = 1.32810 - 0.70895I	0.80944 - 4.01559I	0
b = -0.040835 - 1.061810I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.005129 + 0.954379I	·	
a = -1.41357 - 0.26872I	3.55479 - 0.87622I	0
b = -0.347241 + 0.838567I		
u = 0.005129 - 0.954379I		
a = -1.41357 + 0.26872I	3.55479 + 0.87622I	0
b = -0.347241 - 0.838567I		
u = -0.910905 + 0.261615I		
a = 1.208150 + 0.557838I	-5.82793 - 1.97974I	0
b = 0.843854 + 0.550938I		
u = -0.910905 - 0.261615I		
a = 1.208150 - 0.557838I	-5.82793 + 1.97974I	0
b = 0.843854 - 0.550938I		
u = -0.352869 + 0.999237I		
a = 1.309980 + 0.124605I	-2.66413 + 5.29690I	0
b = 1.123490 - 0.168123I		
u = -0.352869 - 0.999237I		
a = 1.309980 - 0.124605I	-2.66413 - 5.29690I	0
b = 1.123490 + 0.168123I		
u = 0.326697 + 1.014140I		
a = 0.561261 - 0.508035I	-2.65706 - 12.16010I	0
b = 1.94125 - 0.64929I		
u = 0.326697 - 1.014140I		
a = 0.561261 + 0.508035I	-2.65706 + 12.16010I	0
b = 1.94125 + 0.64929I		
u = 0.926967 + 0.113254I		
a = -0.184218 + 0.754293I	-0.528284 - 0.958478I	0
b = 0.311515 + 0.714463I		
u = 0.926967 - 0.113254I		
a = -0.184218 - 0.754293I	-0.528284 + 0.958478I	0
b = 0.311515 - 0.714463I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.193536 + 1.054740I		
a = 0.032676 + 0.585986I	-0.939947 - 0.000035I	0
b = 1.71292 + 1.77353I		
u = -0.193536 - 1.054740I		
a = 0.032676 - 0.585986I	-0.939947 + 0.000035I	0
b = 1.71292 - 1.77353I		
u = 0.334551 + 1.021810I		
a = -0.486973 - 0.143961I	1.55837 - 2.94938I	0
b = -0.697169 + 0.461883I		
u = 0.334551 - 1.021810I		
a = -0.486973 + 0.143961I	1.55837 + 2.94938I	0
b = -0.697169 - 0.461883I		
u = 0.623008 + 0.662516I		
a = 0.100188 - 0.348881I	-2.15925 - 1.04139I	0
b = 0.984468 - 0.203862I		
u = 0.623008 - 0.662516I		
a = 0.100188 + 0.348881I	-2.15925 + 1.04139I	0
b = 0.984468 + 0.203862I		
u = 0.188072 + 0.885745I		
a = 0.18189 - 3.35363I	-3.11330 - 10.34180I	0
b = 0.445617 + 0.277728I		
u = 0.188072 - 0.885745I		
a = 0.18189 + 3.35363I	-3.11330 + 10.34180I	0
b = 0.445617 - 0.277728I		
u = -0.135708 + 0.881152I		
a = 0.817279 + 0.782255I	-0.893570 + 0.937338I	0
b = 1.55399 - 0.16843I		
u = -0.135708 - 0.881152I		
a = 0.817279 - 0.782255I	-0.893570 - 0.937338I	0
b = 1.55399 + 0.16843I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.109500 + 0.139095I		
a = -0.733889 + 1.065730I	-4.29066 + 5.83447I	0
b = -0.714813 + 0.933276I		
u = 1.109500 - 0.139095I		
a = -0.733889 - 1.065730I	-4.29066 - 5.83447I	0
b = -0.714813 - 0.933276I		
u = -1.119570 + 0.106898I		
a = -0.617179 - 0.802897I	0.78469 - 9.60406I	0
b = -0.756292 - 0.934165I		
u = -1.119570 - 0.106898I		
a = -0.617179 + 0.802897I	0.78469 + 9.60406I	0
b = -0.756292 + 0.934165I		
u = 0.846829 + 0.209085I		
a = -0.731495 + 0.502899I	-1.33087 - 0.72319I	0
b = -0.530183 - 0.112186I		
u = 0.846829 - 0.209085I		
a = -0.731495 - 0.502899I	-1.33087 + 0.72319I	0
b = -0.530183 + 0.112186I		
u = 0.018353 + 0.866884I		
a = 0.556628 + 0.523527I	-0.751573 + 0.863225I	0
b = 1.70481 - 0.51962I		
u = 0.018353 - 0.866884I		
a = 0.556628 - 0.523527I	-0.751573 - 0.863225I	0
b = 1.70481 + 0.51962I		
u = -0.679044 + 0.533411I		
a = 0.47379 + 1.50522I	-4.49809 - 1.53846I	0
b = 0.842970 + 0.400250I		
u = -0.679044 - 0.533411I		
a = 0.47379 - 1.50522I	-4.49809 + 1.53846I	0
b = 0.842970 - 0.400250I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.083240 + 0.346377I		
a = 0.191066 + 0.952447I	-0.76440 - 5.39606I	0
b = 0.513660 + 1.092630I		
u = -1.083240 - 0.346377I		
a = 0.191066 - 0.952447I	-0.76440 + 5.39606I	0
b = 0.513660 - 1.092630I		
u = 0.442759 + 0.739069I		
a = -1.21870 + 1.35018I	-5.38476 - 1.87072I	0
b = -1.334780 - 0.103594I		
u = 0.442759 - 0.739069I		
a = -1.21870 - 1.35018I	-5.38476 + 1.87072I	0
b = -1.334780 + 0.103594I		
u = 1.136230 + 0.150504I		
a = 0.678927 - 0.928671I	-3.9314 + 15.3997I	0
b = 0.784452 - 1.006980I		
u = 1.136230 - 0.150504I		
a = 0.678927 + 0.928671I	-3.9314 - 15.3997I	0
b = 0.784452 + 1.006980I		
u = -0.153559 + 0.829785I		
a = 0.56388 + 1.32275I	-0.980231 + 0.971067I	0
b = 1.27739 - 0.74715I		
u = -0.153559 - 0.829785I		
a = 0.56388 - 1.32275I	-0.980231 - 0.971067I	0
b = 1.27739 + 0.74715I		
u = 0.307891 + 0.782104I		
a = 2.23721 - 0.81181I	-3.18370 + 7.94529I	0
b = 1.031530 - 0.280647I		
u = 0.307891 - 0.782104I		
a = 2.23721 + 0.81181I	-3.18370 - 7.94529I	0
b = 1.031530 + 0.280647I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.367754 + 0.750622I		
a = 0.619310 - 0.632085I	0.21899 - 3.47149I	0
b = 0.103268 + 1.395740I		
u = 0.367754 - 0.750622I		
a = 0.619310 + 0.632085I	0.21899 + 3.47149I	0
b = 0.103268 - 1.395740I		
u = 0.449827 + 0.704123I		
a = -1.49036 + 0.95298I	-5.39959 - 1.93014I	0
b = -1.184490 + 0.057036I		
u = 0.449827 - 0.704123I		
a = -1.49036 - 0.95298I	-5.39959 + 1.93014I	0
b = -1.184490 - 0.057036I		
u = 0.388291 + 0.733947I		
a = -1.11660 + 1.74454I	-5.34851 - 1.73934I	0
b = -0.845393 - 0.215975I		
u = 0.388291 - 0.733947I		
a = -1.11660 - 1.74454I	-5.34851 + 1.73934I	0
b = -0.845393 + 0.215975I		
u = -0.165308 + 0.810412I		
a = 0.56082 + 1.75127I	-1.02632 + 0.98406I	0
b = 0.882583 - 0.457074I		
u = -0.165308 - 0.810412I		
a = 0.56082 - 1.75127I	-1.02632 - 0.98406I	0
b = 0.882583 + 0.457074I		
u = 0.510817 + 0.641566I		
a = -1.25258 - 0.84716I	1.66372 - 4.31307I	0
b = -0.685795 - 0.555487I		
u = 0.510817 - 0.641566I		
a = -1.25258 + 0.84716I	1.66372 + 4.31307I	0
b = -0.685795 + 0.555487I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.178310 + 0.184999I		
a = -0.332329 + 0.562029I	0.08757 + 1.83094I	0
b = -0.395717 + 0.845977I		
u = 1.178310 - 0.184999I		
a = -0.332329 - 0.562029I	0.08757 - 1.83094I	0
b = -0.395717 - 0.845977I		
u = -0.372361 + 1.149840I		
a = -0.878604 + 0.187577I	4.10607 - 0.82015I	0
b = -0.153649 + 0.984248I		
u = -0.372361 - 1.149840I		
a = -0.878604 - 0.187577I	4.10607 + 0.82015I	0
b = -0.153649 - 0.984248I		
u = -0.506388 + 1.097430I		
a = 1.324170 + 0.324307I	-2.63620 + 6.15137I	0
b = 1.048280 - 0.866838I		
u = -0.506388 - 1.097430I		
a = 1.324170 - 0.324307I	-2.63620 - 6.15137I	0
b = 1.048280 + 0.866838I		
u = -0.210718 + 1.200420I		
a = -1.93286 - 0.95517I	-0.11642 + 10.43800I	0
b = -0.302380 + 0.548108I		
u = -0.210718 - 1.200420I		
a = -1.93286 + 0.95517I	-0.11642 - 10.43800I	0
b = -0.302380 - 0.548108I		
u = 0.137406 + 0.761054I		
a = 0.06117 + 2.33645I	-3.73260 - 0.24421I	0
b = -1.030270 - 0.538505I		
u = 0.137406 - 0.761054I		
a = 0.06117 - 2.33645I	-3.73260 + 0.24421I	0
b = -1.030270 + 0.538505I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.479556 + 0.605344I		
a = -1.153710 - 0.634733I	-4.64115 + 8.81274I	0
b = -0.004544 + 1.319820I		
u = -0.479556 - 0.605344I		
a = -1.153710 + 0.634733I	-4.64115 - 8.81274I	0
b = -0.004544 - 1.319820I		
u = 0.299411 + 1.236170I		
a = -0.748937 + 0.304351I	6.31344 - 6.96124I	0
b = -1.07207 - 1.58322I		
u = 0.299411 - 1.236170I		
a = -0.748937 - 0.304351I	6.31344 + 6.96124I	0
b = -1.07207 + 1.58322I		
u = -0.052808 + 1.271950I		
a = 0.278427 + 0.256074I	0.431813 - 1.106830I	0
b = 0.906983 - 0.694726I		
u = -0.052808 - 1.271950I		
a = 0.278427 - 0.256074I	0.431813 + 1.106830I	0
b = 0.906983 + 0.694726I		
u = 0.354885 + 1.224060I		
a = 1.086860 - 0.149759I	4.45659 + 0.15218I	0
b = 0.87940 + 1.63490I		
u = 0.354885 - 1.224060I		
a = 1.086860 + 0.149759I	4.45659 - 0.15218I	0
b = 0.87940 - 1.63490I		
u = 0.633338 + 0.350421I		
a = 1.379980 - 0.182928I	-2.86630 - 3.64019I	0
b = 0.817694 + 0.991932I		
u = 0.633338 - 0.350421I		
a = 1.379980 + 0.182928I	-2.86630 + 3.64019I	0
b = 0.817694 - 0.991932I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.577370 + 1.140060I		
a = -1.42478 + 0.29961I	-0.80504 - 10.41690I	0
b = -0.92725 - 1.54153I		
u = 0.577370 - 1.140060I		
a = -1.42478 - 0.29961I	-0.80504 + 10.41690I	0
b = -0.92725 + 1.54153I		
u = -0.368101 + 1.226320I		
a = -1.080950 - 0.415193I	7.49769 + 3.89385I	0
b = -0.89686 + 1.37051I		
u = -0.368101 - 1.226320I		
a = -1.080950 + 0.415193I	7.49769 - 3.89385I	0
b = -0.89686 - 1.37051I		
u = -0.139441 + 0.700337I		
a = 0.203060 - 1.058000I	-3.51779 - 3.48385I	0
b = 0.28403 + 1.68291I		
u = -0.139441 - 0.700337I		
a = 0.203060 + 1.058000I	-3.51779 + 3.48385I	0
b = 0.28403 - 1.68291I		
u = 1.272620 + 0.222164I		
a = 0.251473 - 0.258741I	-2.99459 + 0.12417I	0
b = 0.476464 - 0.306762I		
u = 1.272620 - 0.222164I		
a = 0.251473 + 0.258741I	-2.99459 - 0.12417I	0
b = 0.476464 + 0.306762I		
u = -0.226214 + 0.666099I		
a = 0.480709 + 0.585526I	-2.70083 - 1.84377I	0
b = 1.20437 + 0.85048I		
u = -0.226214 - 0.666099I		
a = 0.480709 - 0.585526I	-2.70083 + 1.84377I	0
b = 1.20437 - 0.85048I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.362697 + 1.248230I		
a = 1.13143 - 0.89815I	1.58429 - 7.17628I	0
b = 0.866124 + 1.034900I		
u = 0.362697 - 1.248230I		
a = 1.13143 + 0.89815I	1.58429 + 7.17628I	0
b = 0.866124 - 1.034900I		
u = -1.262870 + 0.334599I		
a = -0.428168 - 0.197736I	-7.77382 + 5.70633I	0
b = -0.499047 - 0.318651I		
u = -1.262870 - 0.334599I		
a = -0.428168 + 0.197736I	-7.77382 - 5.70633I	0
b = -0.499047 + 0.318651I		
u = -0.494471 + 1.212680I		
a = 1.162890 + 0.768592I	-2.80980 + 7.06401I	0
b = 0.848949 - 0.746215I		
u = -0.494471 - 1.212680I		
a = 1.162890 - 0.768592I	-2.80980 - 7.06401I	0
b = 0.848949 + 0.746215I		
u = 0.576452 + 1.178660I		
a = -0.536668 + 0.005522I	0.11515 - 2.22983I	0
b = 0.153852 - 0.581480I		
u = 0.576452 - 1.178660I		
a = -0.536668 - 0.005522I	0.11515 + 2.22983I	0
b = 0.153852 + 0.581480I		
u = 0.110893 + 1.309760I		
a = 0.83843 - 1.28027I	5.85335 - 4.03857I	0
b = 0.105652 + 0.712097I		
u = 0.110893 - 1.309760I		
a = 0.83843 + 1.28027I	5.85335 + 4.03857I	0
b = 0.105652 - 0.712097I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.623896 + 1.159380I		
a = -1.079530 - 0.457573I	2.59358 - 8.76112I	0
b = -0.305937 - 1.331450I		
u = 0.623896 - 1.159380I		
a = -1.079530 + 0.457573I	2.59358 + 8.76112I	0
b = -0.305937 + 1.331450I		
u = -0.426208 + 0.527754I		
a = -1.22790 + 1.38094I	-4.89355 - 2.86718I	0
b = -0.634378 + 0.090765I		
u = -0.426208 - 0.527754I		
a = -1.22790 - 1.38094I	-4.89355 + 2.86718I	0
b = -0.634378 - 0.090765I		
u = 0.326129 + 1.283490I		
a = -1.093660 + 0.170774I	3.23059 - 3.12658I	0
b = -0.181131 - 0.489329I		
u = 0.326129 - 1.283490I		
a = -1.093660 - 0.170774I	3.23059 + 3.12658I	0
b = -0.181131 + 0.489329I		
u = -0.644197 + 0.200716I		
a = -0.88078 + 1.13185I	3.46263 + 0.22284I	0
b = -0.490297 + 0.900541I		
u = -0.644197 - 0.200716I		
a = -0.88078 - 1.13185I	3.46263 - 0.22284I	0
b = -0.490297 - 0.900541I		
u = 0.642104 + 0.207298I		
a = 0.68091 + 1.71487I	0.37407 + 3.74845I	0
b = 0.308661 + 0.979102I		
u = 0.642104 - 0.207298I		
a = 0.68091 - 1.71487I	0.37407 - 3.74845I	0
b = 0.308661 - 0.979102I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.259993 + 1.300060I		
a = -0.156358 - 0.370591I	3.99196 + 4.44691I	0
b = -0.361718 + 1.247940I		
u = -0.259993 - 1.300060I		
a = -0.156358 + 0.370591I	3.99196 - 4.44691I	0
b = -0.361718 - 1.247940I		
u = -0.636845 + 1.167840I		
a = 0.831072 - 0.376574I	5.68797 + 4.80355I	0
b = 0.075837 - 1.093130I		
u = -0.636845 - 1.167840I		
a = 0.831072 + 0.376574I	5.68797 - 4.80355I	0
b = 0.075837 + 1.093130I		
u = -0.219484 + 1.328130I		
a = -0.750643 - 0.202419I	5.34455 - 1.34959I	0
b = -0.185583 + 0.999627I		
u = -0.219484 - 1.328130I		
a = -0.750643 + 0.202419I	5.34455 + 1.34959I	0
b = -0.185583 - 0.999627I		
u = 0.395945 + 1.289550I		
a = 0.595238 - 0.244193I	3.95036 - 5.48260I	0
b = 0.55376 + 1.34863I		
u = 0.395945 - 1.289550I		
a = 0.595238 + 0.244193I	3.95036 + 5.48260I	0
b = 0.55376 - 1.34863I		
u = -0.394962 + 1.311720I		
a = 0.970654 + 0.143863I	4.13157 + 11.88080I	0
b = 1.06317 - 1.51083I		
u = -0.394962 - 1.311720I		
a = 0.970654 - 0.143863I	4.13157 - 11.88080I	0
b = 1.06317 + 1.51083I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.553556 + 1.255890I		
a = 1.232930 + 0.226818I	2.77894 + 10.18640I	0
b = 0.94888 - 1.40156I		
u = -0.553556 - 1.255890I		
a = 1.232930 - 0.226818I	2.77894 - 10.18640I	0
b = 0.94888 + 1.40156I		
u = 0.384354 + 1.322650I		
a = -0.746341 + 0.174150I	2.44037 - 3.90329I	0
b = -0.808352 - 0.555650I		
u = 0.384354 - 1.322650I		
a = -0.746341 - 0.174150I	2.44037 + 3.90329I	0
b = -0.808352 + 0.555650I		
u = -0.628809 + 1.247520I		
a = -0.805776 - 0.374540I	-4.72209 + 0.68037I	0
b = -0.696367 + 0.851964I		
u = -0.628809 - 1.247520I		
a = -0.805776 + 0.374540I	-4.72209 - 0.68037I	0
b = -0.696367 - 0.851964I		
u = 0.592743 + 1.280260I		
a = -0.939740 - 0.046938I	2.64763 - 4.39184I	0
b = -0.558136 - 0.697709I		
u = 0.592743 - 1.280260I		
a = -0.939740 + 0.046938I	2.64763 + 4.39184I	0
b = -0.558136 + 0.697709I		
u = -0.65366 + 1.27170I		
a = 1.136980 + 0.054923I	2.18738 + 11.66960I	0
b = 0.67441 - 1.43205I		
u = -0.65366 - 1.27170I		
a = 1.136980 - 0.054923I	2.18738 - 11.66960I	0
b = 0.67441 + 1.43205I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.58048 + 1.30852I		
a = -1.322450 + 0.215495I	-0.61344 - 11.78460I	0
b = -1.07992 - 1.27686I		
u = 0.58048 - 1.30852I		
a = -1.322450 - 0.215495I	-0.61344 + 11.78460I	0
b = -1.07992 + 1.27686I		
u = 0.58827 + 1.30589I		
a = 0.773708 - 0.243526I	0.60484 - 6.35364I	0
b = 0.858180 + 0.989293I		
u = 0.58827 - 1.30589I		
a = 0.773708 + 0.243526I	0.60484 + 6.35364I	0
b = 0.858180 - 0.989293I		
u = 0.53244 + 1.33872I		
a = 0.899233 - 0.535014I	0.75870 - 8.17500I	0
b = 0.86241 + 1.26024I		
u = 0.53244 - 1.33872I		
a = 0.899233 + 0.535014I	0.75870 + 8.17500I	0
b = 0.86241 - 1.26024I		
u = -1.42848 + 0.18982I		
a = -0.275326 - 0.395570I	-7.54006 - 6.01896I	0
b = -0.369474 - 0.351096I		
u = -1.42848 - 0.18982I		
a = -0.275326 + 0.395570I	-7.54006 + 6.01896I	0
b = -0.369474 + 0.351096I		
u = -0.57583 + 1.32388I		
a = -1.124210 - 0.313311I	4.6052 + 15.5689I	0
b = -0.94205 + 1.33809I		
u = -0.57583 - 1.32388I		
a = -1.124210 + 0.313311I	4.6052 - 15.5689I	0
b = -0.94205 - 1.33809I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
0.65813 - 3.78742I	0
0.65813 + 3.78742I	0
-0.2538 - 21.5084I	0
-0.2538 + 21.5084I	0
-4.45374 - 1.88808I	0
-4.45374 + 1.88808I	0
1.34723 + 0.60662I	0
1.34723 - 0.60662I	0
0.93876 + 5.52381I	0
0.93876 - 5.52381I	0
	0.65813 - 3.78742I $0.65813 + 3.78742I$ $-0.2538 - 21.5084I$ $-0.2538 + 21.5084I$ $-4.45374 - 1.88808I$ $-4.45374 + 1.88808I$ $1.34723 + 0.60662I$ $0.93876 + 5.52381I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.29851 + 1.42421I		
a = 0.448293 - 0.374327I	5.94885 - 3.34941I	0
b = 0.101987 + 0.938016I		
u = 0.29851 - 1.42421I		
a = 0.448293 + 0.374327I	5.94885 + 3.34941I	0
b = 0.101987 - 0.938016I		
u = 0.59712 + 1.33150I		
a = -0.979471 + 0.267124I	3.80062 - 8.07010I	0
b = -0.634266 - 1.178940I		
u = 0.59712 - 1.33150I		
a = -0.979471 - 0.267124I	3.80062 + 8.07010I	0
b = -0.634266 + 1.178940I		
u = 0.15427 + 1.45226I		
a = -0.169698 + 0.878937I	4.60019 - 4.07663I	0
b = -0.231098 - 0.621990I		
u = 0.15427 - 1.45226I		
a = -0.169698 - 0.878937I	4.60019 + 4.07663I	0
b = -0.231098 + 0.621990I		
u = 0.265244 + 0.455280I		
a = -0.488246 - 0.338092I	-0.73398 - 1.49888I	0
b = 0.436577 + 0.357347I		
u = 0.265244 - 0.455280I		
a = -0.488246 + 0.338092I	-0.73398 + 1.49888I	0
b = 0.436577 - 0.357347I		
u = -0.62924 + 1.35231I		
a = -0.875013 - 0.176121I	-3.65305 + 12.79600I	0
b = -0.901093 + 0.891946I		
u = -0.62924 - 1.35231I		
a = -0.875013 + 0.176121I	-3.65305 - 12.79600I	0
b = -0.901093 - 0.891946I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.011579 + 0.503771I		
a = -2.22896 - 0.84535I	1.69153 - 4.45056I	0
b = -0.882161 - 0.522619I		
u = 0.011579 - 0.503771I		
a = -2.22896 + 0.84535I	1.69153 + 4.45056I	0
b = -0.882161 + 0.522619I		
u = -0.48820 + 1.44425I		
a = -0.643416 + 0.308013I	2.99696 - 0.87405I	0
b = -0.413515 + 1.001360I		
u = -0.48820 - 1.44425I		
a = -0.643416 - 0.308013I	2.99696 + 0.87405I	0
b = -0.413515 - 1.001360I		
u = 0.278459 + 0.384259I		
a = 0.97840 - 2.67230I	-4.39607 + 9.22108I	0
b = 0.826515 + 0.977698I		
u = 0.278459 - 0.384259I		
a = 0.97840 + 2.67230I	-4.39607 - 9.22108I	0
b = 0.826515 - 0.977698I		
u = -0.34033 + 1.49173I		
a = 0.441383 - 0.026782I	6.19379 - 4.00888I	0
b = -0.081675 - 0.794215I		
u = -0.34033 - 1.49173I		
a = 0.441383 + 0.026782I	6.19379 + 4.00888I	0
b = -0.081675 + 0.794215I		
u = 0.429968 + 0.166853I		
a = -1.131500 - 0.474636I	-0.900359 + 0.184523I	0
b = 0.589030 - 0.513629I		
u = 0.429968 - 0.166853I		
a = -1.131500 + 0.474636I	-0.900359 - 0.184523I	0
b = 0.589030 + 0.513629I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.30686 + 1.51328I		
a = -0.390550 - 0.151171I	1.77509 + 9.87081I	0
b = 0.117648 - 0.934794I		
u = 0.30686 - 1.51328I		
a = -0.390550 + 0.151171I	1.77509 - 9.87081I	0
b = 0.117648 + 0.934794I		
u = 0.83420 + 1.34418I		
a = 0.530296 + 0.380105I	2.66429 - 2.24040I	0
b = 0.251483 + 0.637070I		
u = 0.83420 - 1.34418I		
a = 0.530296 - 0.380105I	2.66429 + 2.24040I	0
b = 0.251483 - 0.637070I		
u = 0.378757		
a = -1.40842	-0.944907	-10.9120
b = 0.221544		

$$II. \\ I_2^u = \langle 1.09 \times 10^{50} u^{48} - 2.48 \times 10^{51} u^{47} + \dots + 9.36 \times 10^{50} b + 5.63 \times 10^{51}, \ -2.13 \times 10^{51} u^{48} + 2.11 \times 10^{51} u^{47} + \dots + 2.34 \times 10^{51} a - 1.43 \times 10^{51}, \ u^{49} - u^{48} + \dots + u - 1 \rangle$$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.909133u^{48} - 0.901122u^{47} + \dots + 8.28169u + 0.611665 \\ -0.116483u^{48} + 2.64520u^{47} + \dots + 5.31523u - 6.00862 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -6.75824u^{48} + 3.76581u^{47} + \dots + 17.3063u - 0.677026 \\ 0.291839u^{48} - 4.15847u^{47} + \dots + 6.42113u + 4.65766 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.02562u^{48} - 3.54632u^{47} + \dots + 2.96646u + 6.62028 \\ -0.116483u^{48} + 2.64520u^{47} + \dots + 5.31523u - 6.00862 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1.58587u^{48} + 2.47027u^{47} + \dots - 8.03438u - 4.11760 \\ -5.36933u^{48} + 5.62418u^{47} + \dots + 10.8700u + 0.830989 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -4.67629u^{48} + 6.49319u^{47} + \dots + 8.82716u - 6.92639 \\ 3.44387u^{48} - 4.08605u^{47} + \dots - 6.69889u + 2.01104 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.755496u^{48} - 1.87997u^{47} + \dots + 5.50709u + 3.98718 \\ -0.130340u^{48} + 1.70431u^{47} + \dots + 3.51948u - 3.76558 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.364427u^{48} + 6.80674u^{47} + \dots + 9.13874u - 4.70856 \\ -0.937274u^{48} + 2.61591u^{47} + \dots + 8.29118u - 3.67247 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 14.4499u^{48} - 17.3422u^{47} + \dots + 8.29118u - 3.67247 \\ -1.63501u^{48} + 2.87456u^{47} + \dots + 4.36227u + 0.687865 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-28.5235u^{48} + 44.4612u^{47} + \cdots + 72.8197u 30.6786$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{49} - 3u^{48} + \dots + 125u - 16$
c_2	$u^{49} - u^{48} + \dots + u - 1$
c_3	$u^{49} + 16u^{47} + \dots - 17u + 6$
c_4	$u^{49} + 3u^{48} + \dots - u - 6$
<i>C</i> ₅	$u^{49} + 21u^{47} + \dots - 8u + 1$
<i>C</i> ₆	$u^{49} + u^{48} + \dots + u + 1$
c_7	$u^{49} - 12u^{48} + \dots + 165u - 5$
c_8	$2(2u^{49} - u^{48} + \dots - 14u - 1)$
c_9	$2(2u^{49} - 11u^{48} + \dots - 56u - 9)$
c_{10}	$2(2u^{49} - 11u^{48} + \dots + 7u - 1)$
c_{11}	$u^{49} + 19u^{48} + \dots + 66u + 5$
c_{12}	$u^{49} + 21u^{47} + \dots - 8u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{49} + 17y^{48} + \dots - 6711y - 256$
c_{2}, c_{6}	$y^{49} + 27y^{48} + \dots - 27y - 1$
<i>c</i> ₃	$y^{49} + 32y^{48} + \dots + 421y - 36$
c_4	$y^{49} - 5y^{48} + \dots + 205y - 36$
c_5,c_{12}	$y^{49} + 42y^{48} + \dots - 24y - 1$
C ₇	$y^{49} - 20y^{48} + \dots + 12105y - 25$
<i>c</i> ₈	$4(4y^{49} - 45y^{48} + \dots + 32y - 1)$
c_9	$4(4y^{49} - 73y^{48} + \dots + 3046y - 81)$
c_{10}	$4(4y^{49} - 5y^{48} + \dots - 43y - 1)$
c_{11}	$y^{49} - 23y^{48} + \dots + 136y - 25$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.188959 + 0.981263I		
a = -0.143520 + 0.549754I	-0.942663 - 0.159201I	-22.5869 + 18.4049I
b = -2.19733 + 1.11310I		
u = 0.188959 - 0.981263I		
a = -0.143520 - 0.549754I	-0.942663 + 0.159201I	-22.5869 - 18.4049I
b = -2.19733 - 1.11310I		
u = -0.183744 + 0.965735I		
a = 0.406272 - 0.785388I	-2.70027 + 5.07314I	-14.2068 + 0.9096I
b = 0.61408 + 1.55027I		
u = -0.183744 - 0.965735I		
a = 0.406272 + 0.785388I	-2.70027 - 5.07314I	-14.2068 - 0.9096I
b = 0.61408 - 1.55027I		
u = -0.916701 + 0.347704I		
a = 0.133869 + 1.209820I	-1.62968 - 5.55597I	-11.46152 + 8.23802I
b = 0.655333 + 1.101740I		
u = -0.916701 - 0.347704I		
a = 0.133869 - 1.209820I	-1.62968 + 5.55597I	-11.46152 - 8.23802I
b = 0.655333 - 1.101740I		
u = 1.015600 + 0.105450I		
a = -0.236161 + 0.518753I	0.329735 - 0.576007I	-0.273875 - 0.907726I
b = 0.197731 + 0.715989I		
u = 1.015600 - 0.105450I		
a = -0.236161 - 0.518753I	0.329735 + 0.576007I	-0.273875 + 0.907726I
b = 0.197731 - 0.715989I		
u = -0.574235 + 0.858187I		
a = 1.55403 - 0.46063I	-0.03318 + 6.36851I	-8.00000 - 8.22142I
b = 0.507295 - 0.731813I		
u = -0.574235 - 0.858187I		
a = 1.55403 + 0.46063I	-0.03318 - 6.36851I	-8.00000 + 8.22142I
b = 0.507295 + 0.731813I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.175274 + 0.863770I		
a = -0.67843 + 1.46849I	-0.733049 - 0.941447I	13.11065 - 2.55502I
b = -1.40852 - 0.54524I		
u = 0.175274 - 0.863770I		
a = -0.67843 - 1.46849I	-0.733049 + 0.941447I	13.11065 + 2.55502I
b = -1.40852 + 0.54524I		
u = -0.351709 + 0.790248I		
a = 1.50059 + 1.93010I	-4.62288 + 1.60572I	-9.53892 - 2.91137I
b = 1.42594 - 0.11478I		
u = -0.351709 - 0.790248I		
a = 1.50059 - 1.93010I	-4.62288 - 1.60572I	-9.53892 + 2.91137I
b = 1.42594 + 0.11478I		
u = -0.147081 + 0.804917I		
a = 0.88940 - 1.29917I	2.17734 + 5.19829I	-4.03795 - 7.60271I
b = 0.946314 - 0.007184I		
u = -0.147081 - 0.804917I		
a = 0.88940 + 1.29917I	2.17734 - 5.19829I	-4.03795 + 7.60271I
b = 0.946314 + 0.007184I		
u = 0.060289 + 0.789565I		
a = -0.26086 - 2.68961I	-3.09221 - 9.64003I	-8.07524 + 4.27006I
b = -0.728877 + 0.387542I		
u = 0.060289 - 0.789565I		
a = -0.26086 + 2.68961I	-3.09221 + 9.64003I	-8.07524 - 4.27006I
b = -0.728877 - 0.387542I		
u = -0.184376 + 1.225160I		
a = -0.98325 - 1.03259I	-0.92145 + 10.01710I	0
b = -0.714989 + 0.219067I		
u = -0.184376 - 1.225160I		
a = -0.98325 + 1.03259I	-0.92145 - 10.01710I	0
b = -0.714989 - 0.219067I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.297501 + 0.697450I		
a = -0.214720 + 0.608890I	-3.19753 - 2.97879I	-9.24185 - 0.84704I
b = -0.391206 - 1.126260I		
u = -0.297501 - 0.697450I		
a = -0.214720 - 0.608890I	-3.19753 + 2.97879I	-9.24185 + 0.84704I
b = -0.391206 + 1.126260I		
u = 0.707864 + 0.017124I		
a = -1.36238 - 0.64472I	-3.07012 - 3.12345I	-15.0934 + 5.2189I
b = -0.864672 - 0.871342I		
u = 0.707864 - 0.017124I		
a = -1.36238 + 0.64472I	-3.07012 + 3.12345I	-15.0934 - 5.2189I
b = -0.864672 + 0.871342I		
u = 1.29515		
a = -0.0354736	-2.82144	0
b = -0.294822		
u = 0.636506 + 0.244611I		
a = -0.755930 + 0.700498I	-2.39166 - 0.15754I	-17.0178 - 0.4986I
b = -0.821193 + 0.052728I		
u = 0.636506 - 0.244611I		
a = -0.755930 - 0.700498I	-2.39166 + 0.15754I	-17.0178 + 0.4986I
b = -0.821193 - 0.052728I		
u = 0.299857 + 1.304520I		
a = 0.432579 - 0.487710I	5.39975 - 4.96651I	0
b = 0.540505 + 1.108750I		
u = 0.299857 - 1.304520I		
a = 0.432579 + 0.487710I	5.39975 + 4.96651I	0
b = 0.540505 - 1.108750I		
u = -0.598121 + 1.242950I		
a = 1.246850 + 0.053188I	1.23890 + 11.22100I	0
b = 0.84421 - 1.50043I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.598121 - 1.242950I		
a = 1.246850 - 0.053188I	1.23890 - 11.22100I	0
b = 0.84421 + 1.50043I		
u = 0.517528 + 1.308160I		
a = -0.980525 + 0.532462I	0.89107 - 8.02939I	0
b = -0.86741 - 1.24623I		
u = 0.517528 - 1.308160I		
a = -0.980525 - 0.532462I	0.89107 + 8.02939I	0
b = -0.86741 + 1.24623I		
u = 0.05565 + 1.41379I		
a = 0.042561 - 0.806234I	4.98689 - 4.40383I	0
b = 0.283453 + 0.591147I		
u = 0.05565 - 1.41379I		
a = 0.042561 + 0.806234I	4.98689 + 4.40383I	0
b = 0.283453 - 0.591147I		
u = 0.20904 + 1.40582I		
a = -0.616166 + 0.917200I	5.11423 - 3.73999I	0
b = -0.119538 - 0.741508I		
u = 0.20904 - 1.40582I		
a = -0.616166 - 0.917200I	5.11423 + 3.73999I	0
b = -0.119538 + 0.741508I		
u = -0.35032 + 1.37835I		
a = -0.716254 + 0.221141I	2.80448 - 1.29277I	0
b = -0.560401 + 1.099150I		
u = -0.35032 - 1.37835I		
a = -0.716254 - 0.221141I	2.80448 + 1.29277I	0
b = -0.560401 - 1.099150I		
u = -1.45123 + 0.05010I		
a = -0.228993 + 0.217199I	-7.36613 + 5.80434I	0
b = -0.020889 + 0.200080I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.45123 - 0.05010I		
a = -0.228993 - 0.217199I	-7.36613 - 5.80434I	0
b = -0.020889 - 0.200080I		
u = 0.64740 + 1.30186I		
a = 0.649978 + 0.340741I	2.46817 - 1.99964I	0
b = 0.267851 + 0.513008I		
u = 0.64740 - 1.30186I		
a = 0.649978 - 0.340741I	2.46817 + 1.99964I	0
b = 0.267851 - 0.513008I		
u = 0.71352 + 1.29683I		
a = -0.844644 - 0.136553I	2.83516 - 4.75502I	0
b = -0.490704 - 0.675126I		
u = 0.71352 - 1.29683I		
a = -0.844644 + 0.136553I	2.83516 + 4.75502I	0
b = -0.490704 + 0.675126I		
u = -0.370867 + 0.309970I		
a = 1.44623 + 2.43006I	-4.60364 - 0.03482I	-15.5435 - 1.9910I
b = 1.083160 - 0.259473I		
u = -0.370867 - 0.309970I		
a = 1.44623 - 2.43006I	-4.60364 + 0.03482I	-15.5435 + 1.9910I
b = 1.083160 + 0.259473I		
u = 0.050811 + 0.340419I		
a = -1.26280 + 2.23523I	-3.04508 - 2.82311I	-11.86694 + 3.34813I
b = -0.782718 - 0.856643I		
u = 0.050811 - 0.340419I		
a = -1.26280 - 2.23523I	-3.04508 + 2.82311I	-11.86694 - 3.34813I
b = -0.782718 + 0.856643I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{49} - 3u^{48} + \dots + 125u - 16)(u^{195} - 16u^{194} + \dots - 2141u + 88)$
c_2	$(u^{49} - u^{48} + \dots + u - 1)(u^{195} + 4u^{194} + \dots + 113416u + 11257)$
c_3	$(u^{49} + 16u^{47} + \dots - 17u + 6)(u^{195} - 3u^{194} + \dots + 217741u + 10918)$
C ₄	$(u^{49} + 3u^{48} + \dots - u - 6)(u^{195} + 4u^{194} + \dots + 51821u + 2894)$
C ₅	$(u^{49} + 21u^{47} + \dots - 8u + 1)(u^{195} - 3u^{194} + \dots + 23431u + 1133)$
<i>C</i> ₆	$(u^{49} + u^{48} + \dots + u + 1)(u^{195} + 4u^{194} + \dots + 113416u + 11257)$
C ₇	$(u^{49} - 12u^{48} + \dots + 165u - 5)$ $\cdot (u^{195} + 11u^{194} + \dots + 218148168u + 31728989)$
C ₈	$4(2u^{49} - u^{48} + \dots - 14u - 1)(2u^{195} + 7u^{194} + \dots - 49u + 5)$
<i>c</i> 9	$4(2u^{49} - 11u^{48} + \dots - 56u - 9)$ $\cdot (2u^{195} - 9u^{194} + \dots - 57685501u + 44225269)$
c_{10}	$4(2u^{49} - 11u^{48} + \dots + 7u - 1)$ $\cdot (2u^{195} + 25u^{194} + \dots + 10298164u + 574285)$
c_{11}	$(u^{49} + 19u^{48} + \dots + 66u + 5)(u^{195} + 8u^{194} + \dots + 12939u + 1819)$
c_{12}	$(u^{49} + 21u^{47} + \dots - 8u - 1)(u^{195} - 3u^{194} + \dots + 23431u + 1133)$ 35

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{49} + 17y^{48} + \dots - 6711y - 256)$ $\cdot (y^{195} + 62y^{194} + \dots - 185895y - 7744)$
c_2, c_6	$(y^{49} + 27y^{48} + \dots - 27y - 1)$ $\cdot (y^{195} + 116y^{194} + \dots - 6845116264y - 126720049)$
c_3	$(y^{49} + 32y^{48} + \dots + 421y - 36)$ $\cdot (y^{195} + 45y^{194} + \dots + 993877489y - 119202724)$
c_4	$(y^{49} - 5y^{48} + \dots + 205y - 36)$ $\cdot (y^{195} - 28y^{194} + \dots + 583712209y - 8375236)$
c_5, c_{12}	$(y^{49} + 42y^{48} + \dots - 24y - 1)$ $\cdot (y^{195} + 147y^{194} + \dots + 20891003y - 1283689)$
c ₇	$(y^{49} - 20y^{48} + \dots + 12105y - 25)$ $\cdot (y^{195} + 9y^{194} + \dots - 60843014639712268y - 1006728742962121)$
c_8	$16(4y^{49} - 45y^{48} + \dots + 32y - 1)(4y^{195} - 73y^{194} + \dots + 211y - 25)$
<i>c</i> ₉	$16(4y^{49} - 73y^{48} + \dots + 3046y - 81)$ $\cdot (4y^{195} - 261y^{194} + \dots + 8953659438498701y - 1955874418122361)$
c_{10}	$16(4y^{49} - 5y^{48} + \dots - 43y - 1)$ $\cdot (4y^{195} + 159y^{194} + \dots + 17488032576876y - 329803261225)$
c_{11}	$(y^{49} - 23y^{48} + \dots + 136y - 25)$ $\cdot (y^{195} - 42y^{194} + \dots - 2071600293y - 3308761)$