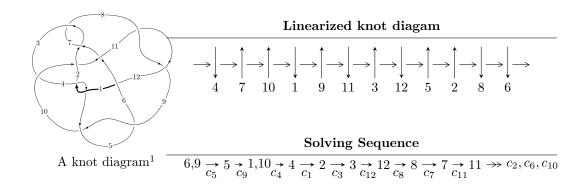
$12a_{1087} (K12a_{1087})$



Ideals for irreducible components² of X_{par}

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 166 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.
$$I_1^u = \langle 1.92 \times 10^{765} u^{138} + 3.12 \times 10^{766} u^{137} + \dots + 2.08 \times 10^{766} b - 1.92 \times 10^{769}, \ -2.37 \times 10^{768} u^{138} - 3.49 \times 10^{769} u^{137} + \dots + 2.56 \times 10^{769} a + 1.98 \times 10^{772}, \ u^{139} + 7u^{138} + \dots + 11682u - 1231 \rangle$$

(i) Arc colorings

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.0923992u^{138} + 1.36464u^{137} + \dots + 7209.45u - 772.579 \\ -0.0922435u^{138} - 1.50002u^{137} + \dots - 8590.71u + 924.136 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -0.549881u^{138} - 3.93080u^{137} + \dots - 52.9648u + 59.9517 \\ 0.399436u^{138} + 2.81424u^{137} + \dots - 390.909u - 0.625575 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.225887u^{138} + 1.40797u^{137} + \dots - 2060.40u + 193.283 \\ -0.0274120u^{138} - 0.225529u^{137} + \dots - 219.675u + 30.6034 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.189124u^{138} - 1.42316u^{137} + \dots - 713.671u + 93.3319 \\ 0.310659u^{138} + 2.17704u^{137} + \dots - 401.163u + 11.0094 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.000155686u^{138} - 0.135379u^{137} + \dots - 1381.27u + 151.556 \\ -0.0922435u^{138} - 1.50002u^{137} + \dots - 8590.71u + 924.136 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.0441154u^{138} + 0.262529u^{137} + \dots - 450.945u + 42.2162 \\ -0.0738248u^{138} - 0.0284938u^{137} + \dots + 4575.07u - 472.844 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.0177352u^{138} - 0.0819765u^{137} + \dots - 2406.75u + 251.185 \\ 0.355643u^{138} + 2.56097u^{137} + \dots + 163.686u - 59.8001 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.0205174u^{138} - 0.0898126u^{137} + \dots + 597.154u - 56.9696 \\ -0.0652540u^{138} - 0.245445u^{137} + \dots + 597.154u - 56.9696 \\ -0.0652540u^{138} - 0.245445u^{137} + \dots + 597.154u - 56.9696 \\ -0.0652540u^{138} - 0.245445u^{137} + \dots + 2278.61u - 233.997 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $1.43120u^{138} + 9.34049u^{137} + \cdots 9490.61u + 842.501$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{139} - 8u^{138} + \dots + 16402u - 877$
c_2, c_7	$u^{139} + u^{138} + \dots - 2696u + 400$
c_3	$u^{139} + u^{138} + \dots + 8317u - 739$
c_5, c_9	$u^{139} - 7u^{138} + \dots + 11682u + 1231$
<i>C</i> ₆	$u^{139} - 5u^{138} + \dots + 3449844u + 1329092$
c_8, c_{11}	$u^{139} - 53u^{137} + \dots + 347585u + 14407$
c_{10}	$u^{139} + u^{138} + \dots - 2613392u + 228149$
c_{12}	$u^{139} + 2u^{138} + \dots - 1050507u - 108932$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{139} + 92y^{138} + \dots - 1895482y - 769129$
c_{2}, c_{7}	$y^{139} - 75y^{138} + \dots + 7284416y - 160000$
c_3	$y^{139} - 7y^{138} + \dots + 158245637y - 546121$
c_5,c_9	$y^{139} + 111y^{138} + \dots - 54973534y - 1515361$
<i>C</i> ₆	$y^{139} + 33y^{138} + \dots - 63550645426176y - 1766485544464$
c_8, c_{11}	$y^{139} - 106y^{138} + \dots + 5626584101y - 207561649$
c_{10}	$y^{139} - 61y^{138} + \dots + 6848256291546y - 52051966201$
c_{12}	$y^{139} - 34y^{138} + \dots + 547581039921y - 11866180624$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.039989 + 1.017880I		
a = 0.0196678 - 0.0235319I	1.36706 - 0.77225I	0
b = 0.03432 - 1.63507I		
u = -0.039989 - 1.017880I		
a = 0.0196678 + 0.0235319I	1.36706 + 0.77225I	0
b = 0.03432 + 1.63507I		
u = 0.481191 + 0.937078I		
a = 1.67515 + 0.27171I	0.23466 + 4.83606I	0
b = -0.519513 + 0.402886I		
u = 0.481191 - 0.937078I		
a = 1.67515 - 0.27171I	0.23466 - 4.83606I	0
b = -0.519513 - 0.402886I		
u = -0.942337 + 0.076060I		
a = -0.331531 - 0.494964I	7.02740 + 3.30222I	0
b = -0.686624 + 0.904248I		
u = -0.942337 - 0.076060I		
a = -0.331531 + 0.494964I	7.02740 - 3.30222I	0
b = -0.686624 - 0.904248I		
u = -0.939126 + 0.062489I		
a = -0.180705 + 0.241630I	4.84217 + 3.09296I	0
b = 0.143026 - 1.053040I		
u = -0.939126 - 0.062489I		
a = -0.180705 - 0.241630I	4.84217 - 3.09296I	0
b = 0.143026 + 1.053040I		
u = 0.182420 + 1.045360I		
a = -1.82996 - 0.34133I	0.96021 + 6.14982I	0
b = 0.438713 - 0.455038I		
u = 0.182420 - 1.045360I		
a = -1.82996 + 0.34133I	0.96021 - 6.14982I	0
b = 0.438713 + 0.455038I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.031760 + 0.257231I		
a = 0.146884 + 0.150541I	8.12766 - 7.82410I	0
b = -0.308572 - 1.066430I		
u = 1.031760 - 0.257231I		
a = 0.146884 - 0.150541I	8.12766 + 7.82410I	0
b = -0.308572 + 1.066430I		
u = 0.087117 + 1.060770I		
a = -1.66253 + 0.22246I	-4.75228 + 2.50216I	0
b = 1.63686 - 1.46324I		
u = 0.087117 - 1.060770I		
a = -1.66253 - 0.22246I	-4.75228 - 2.50216I	0
b = 1.63686 + 1.46324I		
u = 0.590045 + 0.721712I		
a = -0.134505 + 0.309103I	0.992305 - 0.435783I	0
b = 0.150663 + 0.635932I		
u = 0.590045 - 0.721712I		
a = -0.134505 - 0.309103I	0.992305 + 0.435783I	0
b = 0.150663 - 0.635932I		
u = 0.031384 + 1.076740I		
a = -2.33667 - 0.43733I	-0.42394 + 8.03187I	0
b = 2.35961 + 1.54533I		
u = 0.031384 - 1.076740I		
a = -2.33667 + 0.43733I	-0.42394 - 8.03187I	0
b = 2.35961 - 1.54533I		
u = -0.791917 + 0.453106I		
a = 0.277654 + 1.369740I	3.95818 + 3.42854I	0
b = 1.066170 - 0.918445I		
u = -0.791917 - 0.453106I		
a = 0.277654 - 1.369740I	3.95818 - 3.42854I	0
b = 1.066170 + 0.918445I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.054450 + 1.088940I		
a = 2.11968 + 0.67772I	-4.99290 - 1.46818I	0
b = -1.99435 + 0.39427I		
u = 0.054450 - 1.088940I		
a = 2.11968 - 0.67772I	-4.99290 + 1.46818I	0
b = -1.99435 - 0.39427I		
u = -0.447675 + 0.789562I		
a = 0.114568 + 0.948194I	3.21263 + 2.15083I	0
b = 0.123171 + 0.921072I		
u = -0.447675 - 0.789562I		
a = 0.114568 - 0.948194I	3.21263 - 2.15083I	0
b = 0.123171 - 0.921072I		
u = 0.083801 + 1.099070I		
a = 0.798809 + 0.207338I	-3.06633 + 3.30259I	0
b = -0.67844 - 1.34155I		
u = 0.083801 - 1.099070I		
a = 0.798809 - 0.207338I	-3.06633 - 3.30259I	0
b = -0.67844 + 1.34155I		
u = -0.068937 + 0.892914I		
a = 2.51879 - 1.17012I	0.44041 - 8.05097I	0
b = -2.21428 - 0.26115I		
u = -0.068937 - 0.892914I		
a = 2.51879 + 1.17012I	0.44041 + 8.05097I	0
b = -2.21428 + 0.26115I		
u = -0.077678 + 0.890499I		
a = 0.71200 + 1.71379I	1.70213 + 0.28632I	0
b = -0.174279 - 0.279106I		
u = -0.077678 - 0.890499I		
a = 0.71200 - 1.71379I	1.70213 - 0.28632I	0
b = -0.174279 + 0.279106I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.088786 + 1.106150I		
a = -1.40345 + 1.03827I	-1.09142 - 5.55350I	0
b = 0.773931 + 0.572411I		
u = -0.088786 - 1.106150I		
a = -1.40345 - 1.03827I	-1.09142 + 5.55350I	0
b = 0.773931 - 0.572411I		
u = 0.834045 + 0.273977I		
a = -0.876904 - 0.079081I	0.655785 + 0.412691I	0
b = -0.396614 + 0.757911I		
u = 0.834045 - 0.273977I		
a = -0.876904 + 0.079081I	0.655785 - 0.412691I	0
b = -0.396614 - 0.757911I		
u = -0.220109 + 0.849026I		
a = -2.21359 - 0.53451I	3.30502 - 5.19427I	0
b = 0.212927 - 0.037209I		
u = -0.220109 - 0.849026I		
a = -2.21359 + 0.53451I	3.30502 + 5.19427I	0
b = 0.212927 + 0.037209I		
u = 0.367380 + 1.077480I		
a = 1.68645 - 0.77728I	5.73298 + 3.93821I	0
b = -1.01153 + 1.01694I		
u = 0.367380 - 1.077480I		
a = 1.68645 + 0.77728I	5.73298 - 3.93821I	0
b = -1.01153 - 1.01694I		
u = -0.327601 + 1.090830I		
a = -1.42439 + 0.51690I	-0.46130 - 3.27866I	0
b = 1.087470 + 0.507462I		
u = -0.327601 - 1.090830I		
a = -1.42439 - 0.51690I	-0.46130 + 3.27866I	0
b = 1.087470 - 0.507462I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.017265 + 1.139470I		
a = 1.74565 + 0.84719I	-4.15278 - 1.25480I	0
b = -0.936575 - 0.095849I		
u = -0.017265 - 1.139470I		
a = 1.74565 - 0.84719I	-4.15278 + 1.25480I	0
b = -0.936575 + 0.095849I		
u = 0.373192 + 1.084140I		
a = 1.45213 + 0.00338I	-1.03935 + 4.42291I	0
b = -0.945126 - 0.056043I		
u = 0.373192 - 1.084140I		
a = 1.45213 - 0.00338I	-1.03935 - 4.42291I	0
b = -0.945126 + 0.056043I		
u = 0.302430 + 0.796360I		
a = -1.103040 - 0.042384I	0.216594 - 0.842012I	0
b = 0.598151 + 0.322825I		
u = 0.302430 - 0.796360I		
a = -1.103040 + 0.042384I	0.216594 + 0.842012I	0
b = 0.598151 - 0.322825I		
u = 0.848616		
a = -0.713224	-2.75706	0
b = -0.787143		
u = -0.773459 + 0.346387I		
a = -0.086847 - 0.663875I	0.02568 - 9.16776I	0
b = -1.052270 - 0.442375I		
u = -0.773459 - 0.346387I		
a = -0.086847 + 0.663875I	0.02568 + 9.16776I	0
b = -1.052270 + 0.442375I		
u = -0.028769 + 1.163310I		
a = 1.43970 + 0.43359I	-3.90999 - 1.28091I	0
b = -0.810439 - 0.300982I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
-3.90999 + 1.28091I	0
1.47807 + 7.25058I	0
1.47807 - 7.25058I	0
-2.73877 + 3.09519I	0
-2.73877 - 3.09519I	0
0.16568 - 2.71588I	0
0.16568 + 2.71588I	0
5.74931 + 2.78021I	0
5.74931 - 2.78021I	0
2.24989 - 7.68736I	0
	-3.90999 + 1.28091I $1.47807 + 7.25058I$ $1.47807 - 7.25058I$ $-2.73877 + 3.09519I$ $-2.73877 - 3.09519I$ $0.16568 - 2.71588I$ $0.16568 + 2.71588I$ $5.74931 + 2.78021I$ $5.74931 - 2.78021I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.433851 - 1.120870I		
a = -1.60925 - 0.35628I	2.24989 + 7.68736I	0
b = 1.66952 + 0.07451I		
u = -0.467532 + 1.152310I		
a = 2.02188 + 0.01910I	1.67311 - 8.19393I	0
b = -2.13876 - 1.09095I		
u = -0.467532 - 1.152310I		
a = 2.02188 - 0.01910I	1.67311 + 8.19393I	0
b = -2.13876 + 1.09095I		
u = -0.249470 + 1.220880I		
a = -0.893230 + 0.580621I	-1.39797 - 3.63551I	0
b = 0.974047 - 0.221692I		
u = -0.249470 - 1.220880I		
a = -0.893230 - 0.580621I	-1.39797 + 3.63551I	0
b = 0.974047 + 0.221692I		
u = -1.076950 + 0.641101I		
a = 0.087794 + 0.405901I	-0.68271 + 3.22757I	0
b = 0.773698 - 0.104577I		
u = -1.076950 - 0.641101I		
a = 0.087794 - 0.405901I	-0.68271 - 3.22757I	0
b = 0.773698 + 0.104577I		
u = 0.725653		
a = -0.972682	-2.76319	0
b = -0.763288		
u = -0.374091 + 0.610450I		
a = 1.83757 - 0.94783I	4.07537 + 3.90489I	0
b = -1.030650 + 0.287017I		
u = -0.374091 - 0.610450I		
a = 1.83757 + 0.94783I	4.07537 - 3.90489I	0
b = -1.030650 - 0.287017I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.356277 + 1.243310I		
a = -0.438624 - 0.135205I	0.970784 - 0.919988I	0
b = 0.488644 + 0.586217I		
u = 0.356277 - 1.243310I		
a = -0.438624 + 0.135205I	0.970784 + 0.919988I	0
b = 0.488644 - 0.586217I		
u = -0.906645 + 0.931589I		
a = 0.314296 - 0.266178I	1.25328 - 2.74446I	0
b = -0.319629 + 0.514142I		
u = -0.906645 - 0.931589I		
a = 0.314296 + 0.266178I	1.25328 + 2.74446I	0
b = -0.319629 - 0.514142I		
u = 0.176616 + 1.308750I		
a = 1.74204 - 1.12027I	-5.61781 + 3.39275I	0
b = -1.78188 + 1.96773I		
u = 0.176616 - 1.308750I		
a = 1.74204 + 1.12027I	-5.61781 - 3.39275I	0
b = -1.78188 - 1.96773I		
u = 0.553392 + 1.203660I		
a = -1.48499 + 0.23229I	5.1418 + 13.4141I	0
b = 0.740000 - 0.839226I		
u = 0.553392 - 1.203660I		
a = -1.48499 - 0.23229I	5.1418 - 13.4141I	0
b = 0.740000 + 0.839226I		
u = -0.468809 + 1.244510I		
a = 1.38809 + 0.40545I	1.19760 - 8.08283I	0
b = -0.747492 - 0.753060I		
u = -0.468809 - 1.244510I		
a = 1.38809 - 0.40545I	1.19760 + 8.08283I	0
b = -0.747492 + 0.753060I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.660546 + 0.073763I		
a = -0.205708 + 0.250471I	2.51314 - 0.35356I	0
b = -0.740825 + 0.321041I		
u = -0.660546 - 0.073763I		
a = -0.205708 - 0.250471I	2.51314 + 0.35356I	0
b = -0.740825 - 0.321041I		
u = -1.336270 + 0.115797I		
a = -0.231488 + 0.281431I	4.34326 - 12.97320I	0
b = -0.687954 - 0.713203I		
u = -1.336270 - 0.115797I		
a = -0.231488 - 0.281431I	4.34326 + 12.97320I	0
b = -0.687954 + 0.713203I		
u = 0.299884 + 1.319070I		
a = 1.52126 + 0.16495I	-7.92025 + 6.75634I	0
b = -1.38889 + 0.91441I		
u = 0.299884 - 1.319070I		
a = 1.52126 - 0.16495I	-7.92025 - 6.75634I	0
b = -1.38889 - 0.91441I		
u = 0.281389 + 1.331420I		
a = -1.026050 - 0.162850I	-7.24396 + 2.40454I	0
b = 1.05624 - 1.01829I		
u = 0.281389 - 1.331420I		
a = -1.026050 + 0.162850I	-7.24396 - 2.40454I	0
b = 1.05624 + 1.01829I		
u = -0.463305 + 1.282990I		
a = -1.71818 - 0.26508I	3.23935 - 8.32107I	0
b = 1.63413 + 1.14248I		
u = -0.463305 - 1.282990I		
a = -1.71818 + 0.26508I	3.23935 + 8.32107I	0
b = 1.63413 - 1.14248I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.584136 + 0.247452I		
a = 0.421661 - 0.754305I	-3.14158 + 3.44373I	0
b = 1.077540 - 0.353100I		
u = 0.584136 - 0.247452I		
a = 0.421661 + 0.754305I	-3.14158 - 3.44373I	0
b = 1.077540 + 0.353100I		
u = -0.321427 + 1.342410I		
a = 1.039880 - 0.197638I	-6.50937 - 5.32700I	0
b = -0.902832 - 0.970509I		
u = -0.321427 - 1.342410I		
a = 1.039880 + 0.197638I	-6.50937 + 5.32700I	0
b = -0.902832 + 0.970509I		
u = 0.583304 + 0.207462I		
a = 0.436201 + 0.085072I	8.55860 + 0.99400I	0
b = -0.131680 - 1.321520I		
u = 0.583304 - 0.207462I		
a = 0.436201 - 0.085072I	8.55860 - 0.99400I	0
b = -0.131680 + 1.321520I		
u = -0.066869 + 1.383810I		
a = -0.926148 - 0.875994I	-3.55754 + 4.25566I	0
b = 1.01878 + 1.70338I		
u = -0.066869 - 1.383810I		
a = -0.926148 + 0.875994I	-3.55754 - 4.25566I	0
b = 1.01878 - 1.70338I		
u = -0.358578 + 1.353740I		
a = -1.385230 + 0.162765I	-5.0960 - 13.2130I	0
b = 1.27684 + 0.99633I		
u = -0.358578 - 1.353740I		
a = -1.385230 - 0.162765I	-5.0960 + 13.2130I	0
b = 1.27684 - 0.99633I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.18710 + 1.40351I		
a = -0.94830 + 1.47018I	-5.07603 + 3.65056I	0
b = 1.00031 - 2.40983I		
u = 0.18710 - 1.40351I		
a = -0.94830 - 1.47018I	-5.07603 - 3.65056I	0
b = 1.00031 + 2.40983I		
u = 0.277237 + 0.509115I		
a = 0.109069 - 1.253980I	7.86663 - 0.84356I	8.94836 - 8.55332I
b = 0.31732 + 1.70562I		
u = 0.277237 - 0.509115I		
a = 0.109069 + 1.253980I	7.86663 + 0.84356I	8.94836 + 8.55332I
b = 0.31732 - 1.70562I		
u = 0.40681 + 1.39341I		
a = -0.936551 - 0.130409I	-7.62184 + 4.84470I	0
b = 1.115630 - 0.837332I		
u = 0.40681 - 1.39341I		
a = -0.936551 + 0.130409I	-7.62184 - 4.84470I	0
b = 1.115630 + 0.837332I		
u = -0.28802 + 1.42929I		
a = 1.002610 - 0.058464I	-7.33857 - 1.25951I	0
b = -1.077130 - 0.745099I		
u = -0.28802 - 1.42929I		
a = 1.002610 + 0.058464I	-7.33857 + 1.25951I	0
b = -1.077130 + 0.745099I		
u = 0.51596 + 1.43038I		
a = 1.41397 - 0.32237I	-3.58825 + 13.11680I	0
b = -1.44907 + 1.27931I		
u = 0.51596 - 1.43038I		
a = 1.41397 + 0.32237I	-3.58825 - 13.11680I	0
b = -1.44907 - 1.27931I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.69612 + 1.38087I		
a = -1.146870 - 0.114162I	-3.55383 + 8.80422I	0
b = 1.48592 - 0.73963I		
u = 0.69612 - 1.38087I		
a = -1.146870 + 0.114162I	-3.55383 - 8.80422I	0
b = 1.48592 + 0.73963I		
u = -0.58179 + 1.43792I		
a = -1.359140 - 0.214738I	-0.4818 - 19.5325I	0
b = 1.41403 + 1.23197I		
u = -0.58179 - 1.43792I		
a = -1.359140 + 0.214738I	-0.4818 + 19.5325I	0
b = 1.41403 - 1.23197I		
u = 0.59805 + 1.43204I		
a = -1.110790 + 0.099743I	-5.64794 + 7.01015I	0
b = 1.25964 - 1.03890I		
u = 0.59805 - 1.43204I		
a = -1.110790 - 0.099743I	-5.64794 - 7.01015I	0
b = 1.25964 + 1.03890I		
u = -0.64500 + 1.42968I		
a = 1.106970 + 0.024902I	-4.23728 - 11.08710I	0
b = -1.15963 - 0.96667I		
u = -0.64500 - 1.42968I		
a = 1.106970 - 0.024902I	-4.23728 + 11.08710I	0
b = -1.15963 + 0.96667I		
u = -0.65541 + 1.43897I		
a = 1.058700 - 0.018122I	-3.40553 - 6.31340I	0
b = -1.29787 - 0.66924I		
u = -0.65541 - 1.43897I		
a = 1.058700 + 0.018122I	-3.40553 + 6.31340I	0
b = -1.29787 + 0.66924I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.113740 + 0.398757I		
a = -1.088170 + 0.091749I	0.072988 - 0.990449I	1.48529 + 6.57809I
b = 0.329796 + 0.453350I		
u = -0.113740 - 0.398757I		
a = -1.088170 - 0.091749I	0.072988 + 0.990449I	1.48529 - 6.57809I
b = 0.329796 - 0.453350I		
u = -0.094771 + 0.399545I		
a = -1.36616 + 2.88513I	-1.04019 - 2.63838I	-6.99061 + 4.42778I
b = 0.663327 - 0.013899I		
u = -0.094771 - 0.399545I		
a = -1.36616 - 2.88513I	-1.04019 + 2.63838I	-6.99061 - 4.42778I
b = 0.663327 + 0.013899I		
u = 0.343265 + 0.117512I		
a = 1.73226 + 1.78271I	3.59763 + 4.11065I	5.82072 - 5.61946I
b = -0.502238 + 0.591694I		
u = 0.343265 - 0.117512I		
a = 1.73226 - 1.78271I	3.59763 - 4.11065I	5.82072 + 5.61946I
b = -0.502238 - 0.591694I		
u = -0.63803 + 1.52425I		
a = -0.525394 - 0.274337I	0.27250 - 2.21699I	0
b = 0.438080 + 0.637990I		
u = -0.63803 - 1.52425I		
a = -0.525394 + 0.274337I	0.27250 + 2.21699I	0
b = 0.438080 - 0.637990I		
u = 0.298004		
a = -4.15306	-2.52826	-15.0640
b = -0.694282		
u = 0.236435 + 0.097532I		
a = 2.81692 + 0.19777I	-1.28368 + 1.58406I	11.09382 + 2.87087I
b = 0.780124 - 0.835008I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.236435 - 0.097532I		
a = 2.81692 - 0.19777I	-1.28368 - 1.58406I	11.09382 - 2.87087I
b = 0.780124 + 0.835008I		
u = -0.082224 + 0.187056I	1 22242	0.05000 4.400407
a = -3.82221 - 3.33295I	1.33640 + 4.70171I	3.35863 - 4.48242I
b = -0.730956 - 0.542297I		
u = -0.082224 - 0.187056I		
a = -3.82221 + 3.33295I	1.33640 - 4.70171I	3.35863 + 4.48242I
b = -0.730956 + 0.542297I		
u = 1.83927 + 0.39454I		
a = -0.021799 + 0.304765I	0.011733 - 1.238270I	0
b = -0.591106 - 0.121142I		
u = 1.83927 - 0.39454I		
a = -0.021799 - 0.304765I	0.011733 + 1.238270I	0
b = -0.591106 + 0.121142I		
u = -2.04211 + 2.29084I		
a = -0.1264460 + 0.0133185I	0.33117 - 2.06479I	0
b = 0.285526 + 0.213519I		
u = -2.04211 - 2.29084I		
a = -0.1264460 - 0.0133185I	0.33117 + 2.06479I	0
b = 0.285526 - 0.213519I		
u = -0.82448 + 3.09905I		
a = -0.094218 - 0.111486I	-0.25317 + 2.32761I	0
b = 0.202939 + 0.431479I		
u = -0.82448 - 3.09905I		
a = -0.094218 + 0.111486I	-0.25317 - 2.32761I	0
b = 0.202939 - 0.431479I		

 $\begin{array}{l} I_2^u = \langle -1.20 \times 10^{21} u^{26} - 3.97 \times 10^{20} u^{25} + \dots + 3.83 \times 10^{21} b - 2.57 \times 10^{21}, \ 1.84 \times 10^{22} u^{26} + 3.24 \times 10^{22} u^{25} + \dots + 3.83 \times 10^{21} a + 2.71 \times 10^{22}, \ u^{27} + 2u^{26} + \dots + 2u - 1 \rangle \end{array}$

(i) Arc colorings

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -4.80347u^{26} - 8.47454u^{25} + \dots + 46.2091u - 7.09039 \\ 0.314072u^{26} + 0.103576u^{25} + \dots - 0.0876697u + 0.670942 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -3.86527u^{26} - 10.4114u^{25} + \dots - 6.83438u + 19.1686 \\ 0.524610u^{26} + 1.51441u^{25} + \dots + 3.35566u - 0.213317 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 6.10923u^{26} + 10.3421u^{25} + \dots - 64.7521u + 11.0848 \\ -0.219972u^{26} - 0.103324u^{25} + \dots - 2.75459u + 0.954989 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -3.09882u^{26} - 8.55038u^{25} + \dots - 5.78651u + 16.6389 \\ 1.17447u^{26} + 3.10121u^{25} + \dots + 4.51376u - 2.41494 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -4.48940u^{26} - 8.37097u^{25} + \dots + 46.1214u - 6.41944 \\ 0.314072u^{26} + 0.103576u^{25} + \dots - 0.0876697u + 0.670942 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 7.52362u^{26} + 13.8529u^{25} + \dots - 77.2280u + 11.8262 \\ 1.31407u^{26} + 2.10358u^{25} + \dots - 16.0877u + 2.67094 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 9.73610u^{26} + 20.4226u^{25} + \dots - 66.9831u - 3.94315 \\ -0.205239u^{26} - 1.30488u^{25} + \dots - 15.7487u + 5.16841 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 7.82255u^{26} + 13.0054u^{25} + \dots - 80.4141u + 16.6766 \\ 2.88659u^{26} + 5.24058u^{25} + \dots - 23.4164u + 3.81162 \end{pmatrix}$$

(ii) Obstruction class = 1

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{27} - 3u^{26} + \dots + 28u - 1$
c_2	$u^{27} - 6u^{25} + \dots + 3u + 1$
c_3	$u^{27} - 8u^{24} + \dots + u - 1$
c_4	$u^{27} + 3u^{26} + \dots + 28u + 1$
c_5	$u^{27} + 2u^{26} + \dots + 2u - 1$
c_6	$u^{27} + 4u^{26} + \dots + 2u - 4$
c_7	$u^{27} - 6u^{25} + \dots + 3u - 1$
c_8	$u^{27} + 5u^{26} + \dots + 65u - 25$
c_9	$u^{27} - 2u^{26} + \dots + 2u + 1$
c_{10}	$u^{27} + 8u^{26} + \dots - 4u - 1$
c_{11}	$u^{27} - 5u^{26} + \dots + 65u + 25$
c_{12}	$u^{27} + u^{26} + \dots - 6u - 1$
-	

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{27} + 19y^{26} + \dots + 546y - 1$
c_2, c_7	$y^{27} - 12y^{26} + \dots + 23y - 1$
c_3	$y^{27} + 20y^{25} + \dots - 31y - 1$
c_5, c_9	$y^{27} + 34y^{26} + \dots - 30y - 1$
	$y^{27} + 8y^{26} + \dots + 252y - 16$
c_{8}, c_{11}	$y^{27} - 23y^{26} + \dots + 5025y - 625$
c_{10}	$y^{27} - 18y^{26} + \dots + 14y - 1$
c_{12}	$y^{27} - 7y^{26} + \dots - 38y - 1$

(vi) Complex Volumes and Cusp Shapes

$\begin{array}{c} u = -0.138240 + 1.042160I \\ a = 1.70968 - 1.09789I \\ b = -1.095150 - 0.186222I \\ u = -0.138240 - 1.042160I \\ a = 1.70968 + 1.09789I \\ b = -1.095150 + 0.186222I \\ u = 0.198761 + 0.901927I \\ a = 2.28587 - 0.37813I \\ b = -0.787321 + 0.087852I \\ u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 + 0.087852I \\ u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 + 0.087852I \\ u = 0.198761 - 0.901927I \\ a = -1.42591 + 0.27088I \\ b = 0.603886 + 0.183106I \\ u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I \\ b = 0.603886 - 0.183106I \\ u = -0.11973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 - 0.93323I \\ b = 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ b = -2.48112 + 0.28631I \\ 0.85946 + 9.60514I \\ 0.41397 - 11.53152I \\ 0$	Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$\begin{array}{c} b = -1.095150 - 0.186222I \\ u = -0.138240 - 1.042160I \\ a = 1.70968 + 1.09789I \\ b = -1.095150 + 0.186222I \\ \hline u = 0.198761 + 0.901927I \\ a = 2.28587 - 0.37813I \\ b = -0.787321 + 0.087852I \\ \hline u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 + 0.087852I \\ \hline u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 - 0.087852I \\ \hline u = -0.511847 + 0.967951I \\ a = -1.42591 + 0.27088I \\ b = 0.603886 + 0.183106I \\ u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I \\ b = 0.603886 - 0.183106I \\ u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ 0.85946 + 9.60514I \\ 0.41397 - 11.53152I \\ 0.41397 - 11.5315$	u = -0.138240 + 1.042160I		
$\begin{array}{c} u = -0.138240 - 1.042160I \\ a = 1.70968 + 1.09789I \\ b = -1.095150 + 0.186222I \\ \hline u = 0.198761 + 0.901927I \\ a = 2.28587 - 0.37813I \\ b = -0.787321 + 0.087852I \\ \hline u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 + 0.087852I \\ \hline u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 - 0.087852I \\ \hline u = -0.511847 + 0.967951I \\ a = -1.42591 + 0.27088I \\ b = 0.603886 + 0.183106I \\ u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I \\ b = 0.603886 - 0.183106I \\ u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ 0.85946 + 9.60514I \\ 0.41397 - 11.53152I \\ 0$	a = 1.70968 - 1.09789I	-0.22983 - 5.58124I	0.06064 + 6.51484I
$\begin{array}{llllllllllllllllllllllllllllllllllll$	b = -1.095150 - 0.186222I		
$\begin{array}{c} b = -1.095150 + 0.186222I \\ u = 0.198761 + 0.901927I \\ a = 2.28587 - 0.37813I \\ b = -0.787321 + 0.087852I \\ u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 - 0.087852I \\ u = 0.511847 + 0.967951I \\ a = -1.42591 + 0.27088I \\ b = 0.603886 + 0.183106I \\ u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I \\ b = 0.603886 - 0.183106I \\ u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ 0.85946 + 9.60514I \\ 0.41397 - 11.53152I \\ 0.41397 - 1$	u = -0.138240 - 1.042160I		
$\begin{array}{c} u = & 0.198761 + 0.901927I \\ a = & 2.28587 - 0.37813I \\ b = -0.787321 + 0.087852I \\ u = & 0.198761 - 0.901927I \\ a = & 2.28587 + 0.37813I \\ b = -0.787321 - 0.087852I \\ u = -0.511847 + 0.967951I \\ a = -1.42591 + 0.27088I \\ b = & 0.603886 + 0.183106I \\ u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I \\ b = & 0.603886 - 0.183106I \\ u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = & 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = & 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = & 2.33822 - 0.78048I \\ b = & 2.33822 + 0.78048I \\ 0.85946 + 9.60514I \\ 0.41397 - 11.53152I \\ 0.4139$	a = 1.70968 + 1.09789I	-0.22983 + 5.58124I	0.06064 - 6.51484I
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	b = -1.095150 + 0.186222I		
$\begin{array}{c} b = -0.787321 + 0.087852I \\ u = 0.198761 - 0.901927I \\ a = 2.28587 + 0.37813I \\ b = -0.787321 - 0.087852I \\ \hline u = -0.511847 + 0.967951I \\ a = -1.42591 + 0.27088I \\ b = 0.603886 + 0.183106I \\ \hline u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I \\ b = 0.603886 - 0.183106I \\ \hline u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ a = 2.33822 + 0.78048I \\ 0.85946 + 9.60514I \\ 0.41397 - 11.53152I \\ 0.41397 - 11.53$	u = 0.198761 + 0.901927I		
$\begin{array}{c} u = & 0.198761 - 0.901927I \\ a = & 2.28587 + 0.37813I \\ b = -0.787321 - 0.087852I \\ \hline u = & -0.511847 + 0.967951I \\ a = & -1.42591 + 0.27088I \\ b = & 0.603886 + 0.183106I \\ \hline u = & -0.511847 - 0.967951I \\ a = & -1.42591 - 0.27088I \\ b = & 0.603886 - 0.183106I \\ \hline u = & -0.011973 + 1.126140I \\ a = & -1.84739 - 0.93323I \\ b = & 1.180230 + 0.134510I \\ \hline u = & -0.430646 + 1.041410I \\ a = & 2.33822 + 0.78048I \\ \hline u = & -0.430646 - 1.041410I \\ a = & 2.33822 + 0.78048I \\ \hline u = & -0.430646 - 1.041410I \\ a = & 2.33822 + 0.78048I \\ \hline u = & 0.85946 + 9.60514I \\ \hline 0.41397 - 11.53152I \\ \hline \end{array}$	a = 2.28587 - 0.37813I	2.78096 + 5.11224I	-2.31315 - 5.94919I
$\begin{array}{llllllllllllllllllllllllllllllllllll$	b = -0.787321 + 0.087852I		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	u = 0.198761 - 0.901927I		
$\begin{array}{c} u = -0.511847 + 0.967951I \\ a = -1.42591 + 0.27088I \\ b = 0.603886 + 0.183106I \\ \hline u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I \\ \hline b = 0.603886 - 0.183106I \\ \hline u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ \hline b = 1.180230 + 0.134510I \\ \hline u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ \hline a = -1.84739 + 0.93323I \\ \hline b = 1.180230 - 0.134510I \\ \hline u = -0.430646 + 1.041410I \\ a = 2.33822 - 0.78048I \\ \hline u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ \hline u = -0.430646 - 1.04141$	a = 2.28587 + 0.37813I	2.78096 - 5.11224I	-2.31315 + 5.94919I
$\begin{array}{llllllllllllllllllllllllllllllllllll$			
$\begin{array}{c} b = & 0.603886 + 0.183106I \\ u = -0.511847 - 0.967951I \\ a = -1.42591 - 0.27088I & 0.09347 + 4.33568I & 0.503085 - 0.751288I \\ b = & 0.603886 - 0.183106I \\ u = -0.011973 + 1.126140I \\ a = & -1.84739 - 0.93323I & -3.82328 - 1.33571I & 7.10935 + 2.84045I \\ b = & 1.180230 + 0.134510I \\ u = & -0.011973 - 1.126140I \\ a = & -1.84739 + 0.93323I & -3.82328 + 1.33571I & 7.10935 - 2.84045I \\ b = & 1.180230 - 0.134510I \\ u = & -0.430646 + 1.041410I \\ a = & 2.33822 - 0.78048I & 0.85946 - 9.60514I & 0.41397 + 11.53152I \\ b = & -2.48112 - 0.28631I \\ u = & -0.430646 - 1.041410I \\ a = & 2.33822 + 0.78048I & 0.85946 + 9.60514I & 0.41397 - 11.53152I \\ \end{array}$	u = -0.511847 + 0.967951I		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	a = -1.42591 + 0.27088I	0.09347 - 4.33568I	0.503085 + 0.751288I
$\begin{array}{llllllllllllllllllllllllllllllllllll$	b = 0.603886 + 0.183106I		
$\begin{array}{c} b = & 0.603886 - 0.183106I \\ \hline u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = & 1.180230 + 0.134510I \\ \hline u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = & 1.180230 - 0.134510I \\ \hline u = -0.430646 + 1.041410I \\ a = & 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ \hline u = -0.430646 - 1.041410I \\ a = & 2.33822 + 0.78048I \\ \hline 0.85946 + 9.60514I \\ \hline 0.41397 - 11.53152I \\ \hline 0.41397 - 11.53152I \\ \hline \end{array}$	u = -0.511847 - 0.967951I		
$\begin{array}{c} u = -0.011973 + 1.126140I \\ a = -1.84739 - 0.93323I \\ b = 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = 2.33822 + 0.78048I \\ 0.85946 + 9.60514I \\ 0.41397 - 11.53152I \\ 0.41397 $	a = -1.42591 - 0.27088I	0.09347 + 4.33568I	0.503085 - 0.751288I
$\begin{array}{llllllllllllllllllllllllllllllllllll$			
$\begin{array}{c} b = & 1.180230 + 0.134510I \\ u = -0.011973 - 1.126140I \\ a = -1.84739 + 0.93323I \\ b = & 1.180230 - 0.134510I \\ u = -0.430646 + 1.041410I \\ a = & 2.33822 - 0.78048I \\ b = -2.48112 - 0.28631I \\ u = -0.430646 - 1.041410I \\ a = & 2.33822 + 0.78048I \\ \end{array} \begin{array}{c} 0.85946 - 9.60514I \\ 0.41397 - 11.53152I \\ 0.41397 - 11.53152I \\ \end{array}$	u = -0.011973 + 1.126140I		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	a = -1.84739 - 0.93323I	-3.82328 - 1.33571I	7.10935 + 2.84045I
$\begin{array}{llllllllllllllllllllllllllllllllllll$	b = 1.180230 + 0.134510I		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	u = -0.011973 - 1.126140I		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	a = -1.84739 + 0.93323I	-3.82328 + 1.33571I	7.10935 - 2.84045I
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	b = 1.180230 - 0.134510I		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	u = -0.430646 + 1.041410I		
u = -0.430646 - 1.041410I a = 2.33822 + 0.78048I $0.85946 + 9.60514I$ $0.41397 - 11.53152I$	a = 2.33822 - 0.78048I	0.85946 - 9.60514I	0.41397 + 11.53152I
a = 2.33822 + 0.78048I $0.85946 + 9.60514I$ $0.41397 - 11.53152I$	b = -2.48112 - 0.28631I		
	u = -0.430646 - 1.041410I		
b = -2.48112 + 0.28631I	a = 2.33822 + 0.78048I	0.85946 + 9.60514I	0.41397 - 11.53152I
	b = -2.48112 + 0.28631I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.089800 + 0.374773I		
a = 0.499711 - 0.151169I	0.08704 + 2.81180I	1.96585 - 2.02367I
b = 0.385899 + 0.197191I		
u = -1.089800 - 0.374773I		
a = 0.499711 + 0.151169I	0.08704 - 2.81180I	1.96585 + 2.02367I
b = 0.385899 - 0.197191I		
u = 0.158522 + 1.302250I		
a = -1.47879 + 1.42803I	-6.28046 + 3.93755I	-10.87147 - 7.00714I
b = 1.50567 - 2.38043I		
u = 0.158522 - 1.302250I		
a = -1.47879 - 1.42803I	-6.28046 - 3.93755I	-10.87147 + 7.00714I
b = 1.50567 + 2.38043I		
u = 0.638407		
a = -1.50885	-2.16427	9.49510
b = -0.657346		
u = 0.32602 + 1.38215I		
a = -0.905811 - 0.040053I	-7.36877 + 3.74464I	-4.63601 - 1.89404I
b = 0.958732 - 0.988591I		
u = 0.32602 - 1.38215I		
a = -0.905811 + 0.040053I	-7.36877 - 3.74464I	-4.63601 + 1.89404I
b = 0.958732 + 0.988591I		
u = 0.354754 + 0.365472I		
a = -1.003520 + 0.632064I	-1.72992 + 1.75908I	-5.11746 - 3.86134I
b = -0.620997 + 0.715658I		
u = 0.354754 - 0.365472I		
a = -1.003520 - 0.632064I	-1.72992 - 1.75908I	-5.11746 + 3.86134I
b = -0.620997 - 0.715658I		
u = -0.059901 + 0.457684I		
a = 0.86940 - 1.21905I	7.70384 + 1.16350I	-2.19116 - 10.82089I
b = -0.16846 + 1.67690I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.059901 - 0.457684I		
a = 0.86940 + 1.21905I	7.70384 - 1.16350I	-2.19116 + 10.82089I
b = -0.16846 - 1.67690I		
u = 0.69506 + 1.42541I		
a = -1.051960 - 0.029718I	-4.17196 + 7.87136I	0 4.78656I
b = 1.29881 - 0.79638I		
u = 0.69506 - 1.42541I		
a = -1.051960 + 0.029718I	-4.17196 - 7.87136I	0. + 4.78656I
b = 1.29881 + 0.79638I		
u = 0.024581 + 0.373492I		
a = -0.77209 + 3.25067I	2.96872 - 0.55564I	8.52805 - 0.35655I
b = 0.003859 + 1.019650I		
u = 0.024581 - 0.373492I		
a = -0.77209 - 3.25067I	2.96872 + 0.55564I	8.52805 + 0.35655I
b = 0.003859 - 1.019650I		
u = -0.83449 + 2.98133I		
a = 0.0370278 + 0.0712024I	0.32325 - 1.95043I	0
b = 0.044636 + 0.173884I		
u = -0.83449 - 2.98133I		
a = 0.0370278 - 0.0712024I	0.32325 + 1.95043I	0
b = 0.044636 - 0.173884I		

III. u-Polynomials

	III. u-Polynomials
Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{27} - 3u^{26} + \dots + 28u - 1)(u^{139} - 8u^{138} + \dots + 16402u - 877) \right $
c_2	$(u^{27} - 6u^{25} + \dots + 3u + 1)(u^{139} + u^{138} + \dots - 2696u + 400)$
<i>c</i> ₃	$(u^{27} - 8u^{24} + \dots + u - 1)(u^{139} + u^{138} + \dots + 8317u - 739)$
c_4	$ (u^{27} + 3u^{26} + \dots + 28u + 1)(u^{139} - 8u^{138} + \dots + 16402u - 877) $
<i>C</i> ₅	$(u^{27} + 2u^{26} + \dots + 2u - 1)(u^{139} - 7u^{138} + \dots + 11682u + 1231)$
<i>C</i> ₆	$(u^{27} + 4u^{26} + \dots + 2u - 4)(u^{139} - 5u^{138} + \dots + 3449844u + 1329092)$
C ₇	$(u^{27} - 6u^{25} + \dots + 3u - 1)(u^{139} + u^{138} + \dots - 2696u + 400)$
C ₈	$(u^{27} + 5u^{26} + \dots + 65u - 25)(u^{139} - 53u^{137} + \dots + 347585u + 14407)$
<i>C</i> 9	$(u^{27} - 2u^{26} + \dots + 2u + 1)(u^{139} - 7u^{138} + \dots + 11682u + 1231)$
c_{10}	$ (u^{27} + 8u^{26} + \dots - 4u - 1)(u^{139} + u^{138} + \dots - 2613392u + 228149) $
c_{11}	$(u^{27} - 5u^{26} + \dots + 65u + 25)(u^{139} - 53u^{137} + \dots + 347585u + 14407)$
c_{12}	$(u^{27} + u^{26} + \dots - 6u - 1)(u^{139} + 2u^{138} + \dots - 1050507u - 108932)$ 27

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$(y^{27} + 19y^{26} + \dots + 546y - 1)$ $\cdot (y^{139} + 92y^{138} + \dots - 1895482y - 769129)$
c_2, c_7	$(y^{27} - 12y^{26} + \dots + 23y - 1)$ $\cdot (y^{139} - 75y^{138} + \dots + 7284416y - 160000)$
c_3	$(y^{27} + 20y^{25} + \dots - 31y - 1)$ $\cdot (y^{139} - 7y^{138} + \dots + 158245637y - 546121)$
c_5,c_9	$(y^{27} + 34y^{26} + \dots - 30y - 1)$ $\cdot (y^{139} + 111y^{138} + \dots - 54973534y - 1515361)$
c_6	$(y^{27} + 8y^{26} + \dots + 252y - 16)$ $\cdot (y^{139} + 33y^{138} + \dots - 63550645426176y - 1766485544464)$
c_8, c_{11}	$(y^{27} - 23y^{26} + \dots + 5025y - 625)$ $\cdot (y^{139} - 106y^{138} + \dots + 5626584101y - 207561649)$
c_{10}	$(y^{27} - 18y^{26} + \dots + 14y - 1)$ $\cdot (y^{139} - 61y^{138} + \dots + 6848256291546y - 52051966201)$
c_{12}	$(y^{27} - 7y^{26} + \dots - 38y - 1)$ $\cdot (y^{139} - 34y^{138} + \dots + 547581039921y - 11866180624)$