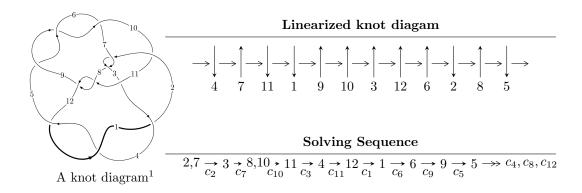
$12a_{1107} (K12a_{1107})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.01048 \times 10^{165}u^{79} + 2.54217 \times 10^{164}u^{78} + \dots + 3.41950 \times 10^{164}b - 7.77445 \times 10^{164}, \\ &- 5.17035 \times 10^{164}u^{79} + 5.54826 \times 10^{164}u^{78} + \dots + 3.41950 \times 10^{164}a - 3.60849 \times 10^{163}, \\ &u^{80} - u^{79} + \dots + 77u^2 + 1 \rangle \\ I_2^u &= \langle 232u^{23} - 9371u^{22} + \dots + 4397b - 14595, \ -13378u^{23} - 29082u^{22} + \dots + 30779a - 96133, \\ &u^{24} - 9u^{22} + \dots + 2u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 104 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.
$$I_1^u = \langle 1.01 \times 10^{165} u^{79} + 2.54 \times 10^{164} u^{78} + \cdots + 3.42 \times 10^{164} b - 7.77 \times 10^{164}, \ -5.17 \times 10^{164} u^{79} + 5.55 \times 10^{164} u^{78} + \cdots + 3.42 \times 10^{164} a - 3.61 \times 10^{163}, \ u^{80} - u^{79} + \cdots + 77 u^2 + 1 \rangle$$

(i) Arc colorings

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

$$a_{7} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} u \\ -u^{3} + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.51202u^{79} - 1.62254u^{78} + \dots + 113.235u + 0.105527 \\ -2.95505u^{79} - 0.743435u^{78} + \dots + 11.1242u + 2.27356 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 4.46707u^{79} - 0.879103u^{78} + \dots + 102.111u - 2.16804 \\ -2.95505u^{79} - 0.743435u^{78} + \dots + 11.1242u + 2.27356 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.67385u^{79} + 0.289420u^{78} + \dots + 11.1242u + 2.27356 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.67385u^{79} + 0.289420u^{78} + \dots + 1.17646u - 12.9982 \\ -1.18420u^{79} - 0.192329u^{78} + \dots + 0.413449u + 1.05286 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 2.40314u^{79} - 1.41293u^{78} + \dots + 104.976u - 0.569502 \\ -1.63115u^{79} - 0.400807u^{78} + \dots + 11.9253u + 1.27435 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -2.08629u^{79} - 0.293098u^{78} + \dots + 0.912283u + 1.62816 \\ -0.844189u^{79} - 0.0173289u^{78} + \dots + 1.90524u + 1.58429 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 3.48631u^{79} - 2.36607u^{78} + \dots + 164.350u - 0.593819 \\ 3.21212u^{79} + 0.854157u^{78} + \dots + 14.2195u - 2.45641 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.580067u^{79} + 3.15254u^{78} + \dots + 124.634u - 1.51358 \\ 0.746830u^{79} + 0.320814u^{78} + \dots - 17.3276u - 0.655648 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -3.47372u^{79} + 0.944591u^{78} + \dots - 17.3276u - 0.655648 \\ 1.80989u^{79} + 0.553280u^{78} + \dots - 12.0166u - 1.68220 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-5.07525u^{79} 1.43220u^{78} + \cdots 10.6961u + 15.3492$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4, c_{12}	$u^{80} - 3u^{79} + \dots + 934u - 73$
c_2, c_7	$u^{80} + u^{79} + \dots + 77u^2 + 1$
c_3	$u^{80} - 2u^{79} + \dots + 237896u - 72979$
c_5,c_6,c_9	$u^{80} - 4u^{79} + \dots - 2139u - 529$
c_8, c_{11}	$u^{80} - 43u^{78} + \dots + 2193u + 583$
c_{10}	$u^{80} + 6u^{79} + \dots + 1524620u - 140713$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_{12}	$y^{80} + 93y^{79} + \dots - 288502y + 5329$
c_2, c_7	$y^{80} - 65y^{79} + \dots + 154y + 1$
c_3	$y^{80} + 42y^{79} + \dots + 54740796004y + 5325934441$
c_5, c_6, c_9	$y^{80} - 96y^{79} + \dots - 7161073y + 279841$
c_8, c_{11}	$y^{80} - 86y^{79} + \dots + 12819505y + 339889$
c_{10}	$y^{80} + 46y^{79} + \dots - 642253205014y + 19800148369$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.696936 + 0.729645I		
a = 0.632882 - 0.912130I	4.15739 + 0.27185I	0
b = 0.021106 - 0.373710I		
u = 0.696936 - 0.729645I		
a = 0.632882 + 0.912130I	4.15739 - 0.27185I	0
b = 0.021106 + 0.373710I		
u = 0.135002 + 0.952540I		
a = 0.864710 - 0.639597I	9.53387 + 5.61294I	0
b = 0.728429 - 0.940911I		
u = 0.135002 - 0.952540I		
a = 0.864710 + 0.639597I	9.53387 - 5.61294I	0
b = 0.728429 + 0.940911I		
u = 0.868294 + 0.372933I		
a = -1.101470 + 0.485003I	4.75188 + 3.71337I	0
b = -0.868224 + 0.272648I		
u = 0.868294 - 0.372933I		
a = -1.101470 - 0.485003I	4.75188 - 3.71337I	0
b = -0.868224 - 0.272648I		
u = 0.040864 + 0.925223I		
a = 0.07581 - 1.48298I	3.95442 + 1.49798I	0
b = 0.241815 - 0.985617I		
u = 0.040864 - 0.925223I		
a = 0.07581 + 1.48298I	3.95442 - 1.49798I	0
b = 0.241815 + 0.985617I		
u = -0.588597 + 0.700636I		
a = -0.397248 + 0.207196I	1.06681 - 2.17703I	0
b = -0.543099 - 0.075426I		
u = -0.588597 - 0.700636I		
a = -0.397248 - 0.207196I	1.06681 + 2.17703I	0
b = -0.543099 + 0.075426I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.142022 + 1.091210I		
a = -0.315318 - 0.470004I	1.73943 - 2.57033I	0
b = -0.290486 - 0.637626I		
u = -0.142022 - 1.091210I		
a = -0.315318 + 0.470004I	1.73943 + 2.57033I	0
b = -0.290486 + 0.637626I		
u = -1.126310 + 0.089569I		
a = -0.442007 + 0.484742I	2.07180 - 0.39101I	0
b = -0.071623 - 0.866787I		
u = -1.126310 - 0.089569I		
a = -0.442007 - 0.484742I	2.07180 + 0.39101I	0
b = -0.071623 + 0.866787I		
u = 0.010153 + 0.860616I		
a = 0.00315 - 1.86109I	11.67760 - 3.21420I	7.86067 + 0.I
b = -0.523475 - 1.293000I		
u = 0.010153 - 0.860616I		
a = 0.00315 + 1.86109I	11.67760 + 3.21420I	7.86067 + 0.I
b = -0.523475 + 1.293000I		
u = 1.176850 + 0.214087I		
a = 0.453143 + 0.396474I	2.04646 + 3.46770I	0
b = 0.521520 - 1.178590I		
u = 1.176850 - 0.214087I		
a = 0.453143 - 0.396474I	2.04646 - 3.46770I	0
b = 0.521520 + 1.178590I		
u = -0.785016		
a = 1.33024	1.13184	8.48010
b = 1.08366		
u = 1.222590 + 0.169019I		
a = -0.366542 + 0.187924I	5.24817 + 2.02818I	0
b = -0.813785 - 1.003570I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.222590 - 0.169019I		
a = -0.366542 - 0.187924I	5.24817 - 2.02818I	0
b = -0.813785 + 1.003570I		
u = 1.243590 + 0.025750I		
a = 0.491354 + 0.508234I	7.67920 - 1.91271I	0
b = -0.299282 - 1.114900I		
u = 1.243590 - 0.025750I		
a = 0.491354 - 0.508234I	7.67920 + 1.91271I	0
b = -0.299282 + 1.114900I		
u = -1.233740 + 0.160122I		
a = 0.416652 - 0.189134I	12.34390 - 2.02934I	0
b = 1.68403 - 1.29569I		
u = -1.233740 - 0.160122I		
a = 0.416652 + 0.189134I	12.34390 + 2.02934I	0
b = 1.68403 + 1.29569I		
u = -0.224335 + 1.251370I		
a = 0.396579 + 1.240710I	17.5268 - 9.1987I	0
b = 0.439295 + 1.205560I		
u = -0.224335 - 1.251370I		
a = 0.396579 - 1.240710I	17.5268 + 9.1987I	0
b = 0.439295 - 1.205560I		
u = -1.253320 + 0.226787I		
a = -0.545170 + 0.251974I	7.94638 - 5.57424I	0
b = -0.76985 - 1.68601I		
u = -1.253320 - 0.226787I		
a = -0.545170 - 0.251974I	7.94638 + 5.57424I	0
b = -0.76985 + 1.68601I		
u = 1.276730 + 0.036383I		
a = 1.228410 - 0.105767I	19.4910 - 3.4464I	0
b = 2.64332 - 1.67262I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.276730 - 0.036383I		
a = 1.228410 + 0.105767I	19.4910 + 3.4464I	0
b = 2.64332 + 1.67262I		
u = -1.265650 + 0.190509I		
a = 0.244681 + 0.771958I	5.35611 - 2.38954I	0
b = 0.017983 - 0.909709I		
u = -1.265650 - 0.190509I		
a = 0.244681 - 0.771958I	5.35611 + 2.38954I	0
b = 0.017983 + 0.909709I		
u = -1.299340 + 0.029424I		
a = -1.217230 + 0.003891I	12.50960 + 1.28371I	0
b = -1.83036 - 1.15663I		
u = -1.299340 - 0.029424I		
a = -1.217230 - 0.003891I	12.50960 - 1.28371I	0
b = -1.83036 + 1.15663I		
u = 1.299070 + 0.193597I		
a = -0.237125 + 1.091620I	12.85860 + 2.75004I	0
b = 0.267604 - 0.949221I		
u = 1.299070 - 0.193597I		
a = -0.237125 - 1.091620I	12.85860 - 2.75004I	0
b = 0.267604 + 0.949221I		
u = 1.326140 + 0.028464I		
a = 1.269620 + 0.151823I	12.89430 + 2.13766I	0
b = 0.866280 - 0.943954I		
u = 1.326140 - 0.028464I		
a = 1.269620 - 0.151823I	12.89430 - 2.13766I	0
b = 0.866280 + 0.943954I		
u = 1.283090 + 0.364993I		
a = -1.183630 + 0.243995I	15.6627 + 7.5874I	0
b = -1.05605 + 2.29439I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.283090 - 0.364993I		
a = -1.183630 - 0.243995I	15.6627 - 7.5874I	0
b = -1.05605 - 2.29439I		
u = -1.343180 + 0.032900I		
a = -1.369430 + 0.312616I	-19.0242 - 4.4708I	0
b = -0.310808 - 0.922191I		
u = -1.343180 - 0.032900I		
a = -1.369430 - 0.312616I	-19.0242 + 4.4708I	0
b = -0.310808 + 0.922191I		
u = -1.317610 + 0.367711I		
a = 1.066500 + 0.174236I	8.27079 - 6.02105I	0
b = 0.92485 + 1.76034I		
u = -1.317610 - 0.367711I		
a = 1.066500 - 0.174236I	8.27079 + 6.02105I	0
b = 0.92485 - 1.76034I		
u = -1.350370 + 0.391524I		
a = 1.190330 + 0.228444I	15.9502 - 1.3706I	0
b = 0.324743 + 1.026450I		
u = -1.350370 - 0.391524I		
a = 1.190330 - 0.228444I	15.9502 + 1.3706I	0
b = 0.324743 - 1.026450I		
u = 1.312710 + 0.520323I		
a = -0.376045 + 0.401152I	13.10940 - 0.20147I	0
b = 0.446491 + 1.104500I		
u = 1.312710 - 0.520323I		
a = -0.376045 - 0.401152I	13.10940 + 0.20147I	0
b = 0.446491 - 1.104500I		
u = 1.36279 + 0.38161I		
a = -1.047180 + 0.129175I	8.31069 + 3.35890I	0
b = -0.702037 + 1.186500I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.36279 - 0.38161I		
a = -1.047180 - 0.129175I	8.31069 - 3.35890I	0
b = -0.702037 - 1.186500I		
u = -1.37192 + 0.39149I		
a = 0.807781 - 0.491480I	14.3124 - 10.3619I	0
b = 0.74301 + 1.26571I		
u = -1.37192 - 0.39149I		
a = 0.807781 + 0.491480I	14.3124 + 10.3619I	0
b = 0.74301 - 1.26571I		
u = 1.38308 + 0.39841I		
a = -0.648655 - 0.272797I	6.68676 + 7.61230I	0
b = -0.558455 + 1.136390I		
u = 1.38308 - 0.39841I		
a = -0.648655 + 0.272797I	6.68676 - 7.61230I	0
b = -0.558455 - 1.136390I		
u = -1.39460 + 0.45420I		
a = 0.481757 + 0.042834I	6.05912 - 3.19174I	0
b = 0.178283 + 1.047700I		
u = -1.39460 - 0.45420I		
a = 0.481757 - 0.042834I	6.05912 + 3.19174I	0
b = 0.178283 - 1.047700I		
u = 0.14075 + 1.47091I		
a = -0.146810 + 1.074640I	9.31276 + 3.72880I	0
b = -0.154282 + 1.049390I		
u = 0.14075 - 1.47091I		
a = -0.146810 - 1.074640I	9.31276 - 3.72880I	0
b = -0.154282 - 1.049390I		
u = 0.151699 + 0.484888I		
a = 0.382165 + 0.552524I	-1.030810 - 0.677680I	-5.64323 + 3.30320I
b = 0.599046 + 0.333795I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.151699 - 0.484888I		
a = 0.382165 - 0.552524I	-1.030810 + 0.677680I	-5.64323 - 3.30320I
b = 0.599046 - 0.333795I		
u = -0.033695 + 0.492640I		
a = 1.68449 - 1.09078I	8.69093 - 0.23211I	6.42670 - 0.21461I
b = 0.913552 + 0.729430I		
u = -0.033695 - 0.492640I		
a = 1.68449 + 1.09078I	8.69093 + 0.23211I	6.42670 + 0.21461I
b = 0.913552 - 0.729430I		
u = -0.041679 + 0.436910I		
a = -1.04487 - 1.00890I	1.60345 - 0.01482I	6.70518 + 0.02503I
b = -0.449373 + 0.440231I		
u = -0.041679 - 0.436910I		
a = -1.04487 + 1.00890I	1.60345 + 0.01482I	6.70518 - 0.02503I
b = -0.449373 - 0.440231I		
u = 1.49122 + 0.49260I		
a = 1.093130 - 0.164500I	-16.4656 + 15.2752I	0
b = 0.94025 - 1.68561I		
u = 1.49122 - 0.49260I		
a = 1.093130 + 0.164500I	-16.4656 - 15.2752I	0
b = 0.94025 + 1.68561I		
u = 0.041118 + 0.424708I		
a = -0.260292 + 1.379560I	3.98697 + 2.93845I	-0.70752 - 5.65005I
b = -0.756220 + 0.857836I		
u = 0.041118 - 0.424708I		
a = -0.260292 - 1.379560I	3.98697 - 2.93845I	-0.70752 + 5.65005I
b = -0.756220 - 0.857836I		
u = -0.386163		
a = -1.63277	0.879285	12.9290
b = -0.124601		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.55136 + 0.52158I		
a = -0.988220 - 0.220179I	14.9843 - 10.6270I	0
b = -0.87035 - 1.43468I		
u = -1.55136 - 0.52158I		
a = -0.988220 + 0.220179I	14.9843 + 10.6270I	0
b = -0.87035 + 1.43468I		
u = -1.49451 + 0.74389I		
a = -0.852568 - 0.491480I	-18.1746 + 1.8793I	0
b = -0.300488 - 1.121150I		
u = -1.49451 - 0.74389I		
a = -0.852568 + 0.491480I	-18.1746 - 1.8793I	0
b = -0.300488 + 1.121150I		
u = 1.59349 + 0.62272I		
a = 0.895221 - 0.321694I	14.1821 + 3.9616I	0
b = 0.650987 - 1.202490I		
u = 1.59349 - 0.62272I		
a = 0.895221 + 0.321694I	14.1821 - 3.9616I	0
b = 0.650987 + 1.202490I		
u = 0.102253 + 0.110466I		
a = -8.53086 + 6.70317I	15.7420 + 3.9676I	8.47382 - 0.00289I
b = 0.914345 + 1.053000I		
u = 0.102253 - 0.110466I		
a = -8.53086 - 6.70317I	15.7420 - 3.9676I	8.47382 + 0.00289I
b = 0.914345 - 1.053000I		
u = -0.0405555 + 0.0915966I		
a = 7.0436 + 13.7070I	8.45061 - 1.71352I	11.94923 - 1.77133I
b = -0.378225 + 0.861032I		
u = -0.0405555 - 0.0915966I		
a = 7.0436 - 13.7070I	8.45061 + 1.71352I	11.94923 + 1.77133I
b = -0.378225 - 0.861032I		

II.
$$I_2^u = \langle 232u^{23} - 9371u^{22} + \dots + 4397b - 14595, \ -13378u^{23} - 29082u^{22} + \dots + 30779a - 96133, \ u^{24} - 9u^{22} + \dots + 2u - 1 \rangle$$

(i) Arc colorings

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

$$a_{7} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0 \\ -u^{3} + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.434647u^{23} + 0.944865u^{22} + \dots + 12.7557u + 3.12333 \\ -0.0527632u^{23} + 2.13123u^{22} + \dots + 2.46350u + 3.31931 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.487410u^{23} - 1.18636u^{22} + \dots + 10.2922u - 0.195978 \\ -0.0527632u^{23} + 2.13123u^{22} + \dots + 2.46350u + 3.31931 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 2.25128u^{23} - 0.650801u^{22} + \dots + 4.21879u + 5.72566 \\ 1.06803u^{23} + 0.598038u^{22} + \dots + 1.66591u + 4.37646 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -1.24484u^{23} + 1.95377u^{22} + \dots + 5.99318u + 1.67384 \\ 1.37815u^{23} + 0.0465902u^{22} + \dots + 6.17694u + 2.04899 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -3.18760u^{23} - 1.54206u^{22} + \dots + 2.01956u - 9.97310 \\ 0.559440u^{23} - 1.86981u^{22} + \dots + 4.96861u - 1.32893 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.440560u^{23} - 1.86981u^{22} + \dots + 4.96861u - 1.32893 \\ 0.0720296u^{23} - 1.68345u^{22} + \dots - 1.32363u - 3.13295 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.565353u^{23} - 1.94487u^{22} + \dots + 5.24426u - 2.12333 \\ -0.919036u^{23} + 1.12622u^{22} + \dots - 0.918126u + 1.19968 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -1.04659u^{23} - 0.254817u^{22} + \dots - 13.2927u - 3.37815 \\ 0.104779u^{23} - 1.86835u^{22} + \dots - 2.33546u - 3.91735 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{135137}{30779}u^{23} - \frac{178618}{30779}u^{22} + \dots + \frac{134797}{4397}u - \frac{71459}{30779}u^{23} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_{12}	$u^{24} - 2u^{23} + \dots - 2u - 1$
c_2	$u^{24} - 9u^{22} + \dots + 2u - 1$
<i>C</i> 3	$u^{24} + u^{23} + \dots - 10u^2 - 1$
C ₄	$u^{24} + 2u^{23} + \dots + 2u - 1$
c_5, c_6	$u^{24} - 3u^{23} + \dots + 3u + 1$
C ₇	$u^{24} - 9u^{22} + \dots - 2u - 1$
C ₈	$u^{24} - 5u^{23} + \dots - 3u - 1$
<i>C</i> 9	$u^{24} + 3u^{23} + \dots - 3u + 1$
c_{10}	$u^{24} - u^{23} + \dots - 6u - 1$
c_{11}	$u^{24} + 5u^{23} + \dots + 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_{12}	$y^{24} + 28y^{23} + \dots + 10y + 1$
c_2, c_7	$y^{24} - 18y^{23} + \dots - 34y + 1$
<i>c</i> ₃	$y^{24} + 9y^{23} + \dots + 20y + 1$
c_5, c_6, c_9	$y^{24} - 29y^{23} + \dots - 17y + 1$
c_8, c_{11}	$y^{24} - 27y^{23} + \dots - 19y + 1$
c_{10}	$y^{24} + 9y^{23} + \dots + 30y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.948785 + 0.336242I		
a = 1.56664 + 0.28156I	16.7456 - 4.9547I	13.14118 + 3.73700I
b = -0.48314 + 1.36965I		
u = -0.948785 - 0.336242I		
a = 1.56664 - 0.28156I	16.7456 + 4.9547I	13.14118 - 3.73700I
b = -0.48314 - 1.36965I		
u = -0.480070 + 0.885671I		
a = -0.245521 - 0.145918I	1.56627 - 1.88204I	9.40784 - 2.19295I
b = 0.098345 + 0.138475I		
u = -0.480070 - 0.885671I		
a = -0.245521 + 0.145918I	1.56627 + 1.88204I	9.40784 + 2.19295I
b = 0.098345 - 0.138475I		
u = 0.453235 + 0.820486I		
a = -0.84320 + 1.40717I	7.93340 + 2.67206I	7.99288 - 3.48914I
b = 0.078008 + 0.635200I		
u = 0.453235 - 0.820486I		
a = -0.84320 - 1.40717I	7.93340 - 2.67206I	7.99288 + 3.48914I
b = 0.078008 - 0.635200I		
u = 1.077200 + 0.224370I		
a = 0.037138 + 0.707804I	11.22030 + 0.98150I	9.90939 - 0.25740I
b = -0.971894 - 0.489643I		
u = 1.077200 - 0.224370I		
a = 0.037138 - 0.707804I	11.22030 - 0.98150I	9.90939 + 0.25740I
b = -0.971894 + 0.489643I		
u = 0.330242 + 1.054880I		
a = 0.303758 - 1.127310I	5.11428 + 1.15831I	12.52997 - 2.03839I
b = 0.189484 - 0.980273I		
u = 0.330242 - 1.054880I		
a = 0.303758 + 1.127310I	5.11428 - 1.15831I	12.52997 + 2.03839I
b = 0.189484 + 0.980273I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.235050 + 0.216681I		
a = 0.192132 + 0.466658I	4.51331 - 1.90214I	3.26510 - 0.24162I
b = 0.353681 - 0.829286I		
u = -1.235050 - 0.216681I		
a = 0.192132 - 0.466658I	4.51331 + 1.90214I	3.26510 + 0.24162I
b = 0.353681 + 0.829286I		
u = -1.251580 + 0.187877I		
a = -1.268650 - 0.312631I	18.1177 + 2.6042I	11.52639 - 0.05741I
b = -1.55650 - 0.61865I		
u = -1.251580 - 0.187877I		
a = -1.268650 + 0.312631I	18.1177 - 2.6042I	11.52639 + 0.05741I
b = -1.55650 + 0.61865I		
u = 1.294600 + 0.113188I		
a = -0.396276 + 0.374271I	8.11890 + 3.19754I	12.70229 - 3.71877I
b = 0.085280 - 1.253300I		
u = 1.294600 - 0.113188I		
a = -0.396276 - 0.374271I	8.11890 - 3.19754I	12.70229 + 3.71877I
b = 0.085280 + 1.253300I		
u = 1.37055		
a = 1.19749	12.6669	12.5420
b = 1.51198		
u = 1.299330 + 0.467553I		
a = -0.989725 + 0.207171I	8.47795 + 4.53556I	11.78703 - 4.31442I
b = -0.43226 + 1.37704I		
u = 1.299330 - 0.467553I		
a = -0.989725 - 0.207171I	8.47795 - 4.53556I	11.78703 + 4.31442I
b = -0.43226 - 1.37704I		
u = -1.41276 + 0.30830I		
a = 0.898564 + 0.062896I	10.93640 - 5.49310I	13.09365 + 3.81125I
b = 0.91446 + 1.66365I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.41276 - 0.30830I		
a = 0.898564 - 0.062896I	10.93640 + 5.49310I	13.09365 - 3.81125I
b = 0.91446 - 1.66365I		
u = 0.330589 + 0.062325I		
a = 2.55338 - 0.86643I	4.47332 + 2.58880I	10.32560 + 1.84657I
b = 0.813280 - 0.738569I		
u = 0.330589 - 0.062325I		
a = 2.55338 + 0.86643I	4.47332 - 2.58880I	10.32560 - 1.84657I
b = 0.813280 + 0.738569I		
u = -0.284449		
a = -2.81399	0.159790	-1.90480
b = -0.689471		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_{12}	$ (u^{24} - 2u^{23} + \dots - 2u - 1)(u^{80} - 3u^{79} + \dots + 934u - 73) $
c_2	$(u^{24} - 9u^{22} + \dots + 2u - 1)(u^{80} + u^{79} + \dots + 77u^2 + 1)$
c_3	$(u^{24} + u^{23} + \dots - 10u^2 - 1)(u^{80} - 2u^{79} + \dots + 237896u - 72979)$
c_4	$(u^{24} + 2u^{23} + \dots + 2u - 1)(u^{80} - 3u^{79} + \dots + 934u - 73)$
c_5, c_6	$(u^{24} - 3u^{23} + \dots + 3u + 1)(u^{80} - 4u^{79} + \dots - 2139u - 529)$
c_7	$(u^{24} - 9u^{22} + \dots - 2u - 1)(u^{80} + u^{79} + \dots + 77u^2 + 1)$
c_8	$(u^{24} - 5u^{23} + \dots - 3u - 1)(u^{80} - 43u^{78} + \dots + 2193u + 583)$
<i>C</i> 9	$(u^{24} + 3u^{23} + \dots - 3u + 1)(u^{80} - 4u^{79} + \dots - 2139u - 529)$
c_{10}	$(u^{24} - u^{23} + \dots - 6u - 1)(u^{80} + 6u^{79} + \dots + 1524620u - 140713)$
c_{11}	$(u^{24} + 5u^{23} + \dots + 3u - 1)(u^{80} - 43u^{78} + \dots + 2193u + 583)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_{12}	$(y^{24} + 28y^{23} + \dots + 10y + 1)(y^{80} + 93y^{79} + \dots - 288502y + 5329)$
c_2, c_7	$(y^{24} - 18y^{23} + \dots - 34y + 1)(y^{80} - 65y^{79} + \dots + 154y + 1)$
c_3	$(y^{24} + 9y^{23} + \dots + 20y + 1)$ $\cdot (y^{80} + 42y^{79} + \dots + 54740796004y + 5325934441)$
c_5, c_6, c_9	$(y^{24} - 29y^{23} + \dots - 17y + 1)$ $\cdot (y^{80} - 96y^{79} + \dots - 7161073y + 279841)$
c_8, c_{11}	$(y^{24} - 27y^{23} + \dots - 19y + 1)$ $\cdot (y^{80} - 86y^{79} + \dots + 12819505y + 339889)$
c_{10}	$(y^{24} + 9y^{23} + \dots + 30y + 1)$ $\cdot (y^{80} + 46y^{79} + \dots - 642253205014y + 19800148369)$