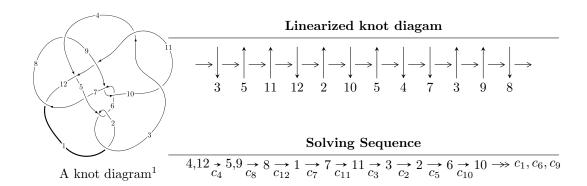
$12n_{0534} (K12n_{0534})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -3.69906 \times 10^{250} u^{76} - 1.26904 \times 10^{251} u^{75} + \dots + 6.74175 \times 10^{250} b - 1.48767 \times 10^{251}, \\ &- 2.19520 \times 10^{251} u^{76} - 8.95593 \times 10^{251} u^{75} + \dots + 6.74175 \times 10^{250} a - 1.13911 \times 10^{252}, \\ &u^{77} + 4u^{76} + \dots + 14u + 1 \rangle \\ I_2^u &= \langle -9.09164 \times 10^{21} u^{22} + 3.04025 \times 10^{21} u^{21} + \dots + 1.47737 \times 10^{22} b + 1.58364 \times 10^{22}, \\ &- 1.26080 \times 10^{22} u^{22} + 3.40886 \times 10^{22} u^{21} + \dots + 7.38683 \times 10^{22} a - 5.26178 \times 10^{22}, \ u^{23} - u^{22} + \dots - u + 1.4000 + 1.0000 +$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 100 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.
$$I_1^u = \langle -3.70 \times 10^{250} u^{76} - 1.27 \times 10^{251} u^{75} + \dots + 6.74 \times 10^{250} b - 1.49 \times 10^{251}, \ -2.20 \times 10^{251} u^{76} - 8.96 \times 10^{251} u^{75} + \dots + 6.74 \times 10^{250} a - 1.14 \times 10^{252}, \ u^{77} + 4u^{76} + \dots + 14u + 1 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} 3.25613u^{76} + 13.2843u^{75} + \dots + 159.304u + 16.8963 \\ 0.548680u^{76} + 1.88235u^{75} + \dots + 31.3932u + 2.20665 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 3.80481u^{76} + 15.1666u^{75} + \dots + 190.697u + 19.1029 \\ 0.548680u^{76} + 1.88235u^{75} + \dots + 31.3932u + 2.20665 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 3.72053u^{76} + 15.8998u^{75} + \dots + 60.2006u - 1.37429 \\ 0.115206u^{76} + 0.587561u^{75} + \dots - 5.69859u - 1.78085 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 2.99371u^{76} + 12.2116u^{75} + \dots + 156.235u + 16.9489 \\ 0.442657u^{76} + 1.58355u^{75} + \dots + 28.1540u + 1.91734 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 2.87213u^{76} + 12.3222u^{75} + \dots + 75.2678u + 2.03206 \\ 0.733192u^{76} + 2.99004u^{75} + \dots - 7.36863u - 1.62550 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.590451u^{76} + 3.55470u^{75} + \dots + 32.3369u + 12.2851 \\ 0.0782665u^{76} + 0.462570u^{75} + \dots + 25.4892u + 3.43765 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.681023u^{76} + 4.03467u^{75} + \dots - 10.4432u + 7.65451 \\ 0.255746u^{76} + 1.13089u^{75} + \dots + 23.7511u + 3.31997 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -2.01550u^{76} - 7.43009u^{75} + \dots - 246.167u - 23.7129 \\ -0.454144u^{76} - 1.61501u^{75} + \dots - 39.0367u - 2.17934 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 4.72922u^{76} + 19.1431u^{75} + \dots + 210.364u + 20.7645 \\ 1.01772u^{76} + 4.07896u^{75} + \dots + 27.5236u + 1.58371 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-2.26612u^{76} 10.0790u^{75} + \cdots 56.7965u 6.97634$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{77} + 84u^{76} + \dots + 220776u - 9409$
c_2, c_5	$u^{77} - 2u^{76} + \dots + 584u + 97$
c_3, c_{10}	$u^{77} - u^{76} + \dots - 404u - 44$
c_4	$u^{77} + 4u^{76} + \dots + 14u + 1$
c_6, c_9	$u^{77} + 6u^{76} + \dots - 8u + 1$
c_7	$u^{77} + 14u^{76} + \dots + 936770u - 675287$
<i>c</i> ₈	$u^{77} + 4u^{76} + \dots - 24u + 1$
c_{11}	$u^{77} - 2u^{76} + \dots + 16u + 1$
c_{12}	$u^{77} - 3u^{76} + \dots - 482672u + 37636$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{77} - 172y^{76} + \dots + 7173569444y - 88529281$
c_2, c_5	$y^{77} + 84y^{76} + \dots + 220776y - 9409$
c_3,c_{10}	$y^{77} - 37y^{76} + \dots + 117808y - 1936$
<i>C</i> ₄	$y^{77} - 12y^{76} + \dots + 68y - 1$
c_6, c_9	$y^{77} + 12y^{76} + \dots + 4y - 1$
	$y^{77} + 40y^{76} + \dots + 11472934223744y - 456012532369$
<i>c</i> ₈	$y^{77} + 12y^{76} + \dots + 98y - 1$
c_{11}	$y^{77} - 8y^{76} + \dots + 54y - 1$
c_{12}	$y^{77} - 13y^{76} + \dots + 29073057280y - 1416468496$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.603067 + 0.813111I		
a = 0.017137 - 1.292070I	7.23108 - 4.64101I	0
b = 0.99462 + 1.26439I		
u = 0.603067 - 0.813111I		
a = 0.017137 + 1.292070I	7.23108 + 4.64101I	0
b = 0.99462 - 1.26439I		
u = 0.759653 + 0.620579I		
a = -0.729094 + 0.411957I	1.70009 + 0.34267I	0
b = 0.154848 - 0.382079I		
u = 0.759653 - 0.620579I		
a = -0.729094 - 0.411957I	1.70009 - 0.34267I	0
b = 0.154848 + 0.382079I		
u = -0.572007 + 0.704963I		
a = -0.141969 - 0.535912I	1.37989 + 3.40941I	0 7.37735I
b = 0.819778 + 1.087240I		
u = -0.572007 - 0.704963I		
a = -0.141969 + 0.535912I	1.37989 - 3.40941I	0. + 7.37735I
b = 0.819778 - 1.087240I		
u = -0.876447 + 0.065089I		
a = 1.12695 - 1.60083I	-7.40774 - 0.19172I	-6.59818 + 0.I
b = 0.362810 - 0.282958I		
u = -0.876447 - 0.065089I		
a = 1.12695 + 1.60083I	-7.40774 + 0.19172I	-6.59818 + 0.I
b = 0.362810 + 0.282958I		
u = -0.504176 + 1.001760I		
a = -0.125990 + 1.267870I	2.41956 + 2.16164I	0
b = 0.534856 - 0.760961I		
u = -0.504176 - 1.001760I		
a = -0.125990 - 1.267870I	2.41956 - 2.16164I	0
b = 0.534856 + 0.760961I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.738185 + 0.849245I		
a = -0.975432 + 0.272990I	2.30258 + 0.23661I	0
b = 0.011881 - 0.595265I		
u = 0.738185 - 0.849245I		
a = -0.975432 - 0.272990I	2.30258 - 0.23661I	0
b = 0.011881 + 0.595265I		
u = -0.851789		
a = -1.52171	-1.09740	-10.3570
b = -0.970413		
u = 0.807485 + 0.037889I		
a = 2.03423 + 0.82063I	-7.69102 + 5.64820I	-7.22889 - 4.04366I
b = 1.039560 - 0.013041I		
u = 0.807485 - 0.037889I		
a = 2.03423 - 0.82063I	-7.69102 - 5.64820I	-7.22889 + 4.04366I
b = 1.039560 + 0.013041I		
u = -0.770876 + 0.163386I		
a = 0.122882 - 1.183720I	-6.89705 - 5.46417I	-7.68374 + 2.64434I
b = 0.62353 + 1.85061I		
u = -0.770876 - 0.163386I		
a = 0.122882 + 1.183720I	-6.89705 + 5.46417I	-7.68374 - 2.64434I
b = 0.62353 - 1.85061I		
u = -0.606094 + 0.481066I		
a = -2.49603 + 0.49755I	-6.05313 + 8.15976I	-1.59925 - 11.05556I
b = -0.334450 + 0.491812I		
u = -0.606094 - 0.481066I		
a = -2.49603 - 0.49755I	-6.05313 - 8.15976I	-1.59925 + 11.05556I
b = -0.334450 - 0.491812I		
u = 0.621201 + 0.435972I		
a = -1.90399 + 0.94577I	-6.07059 - 3.11661I	-2.10448 + 5.82107I
b = -1.049600 - 0.524445I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.621201 - 0.435972I		
a = -1.90399 - 0.94577I	-6.07059 + 3.11661I	-2.10448 - 5.82107I
b = -1.049600 + 0.524445I		
u = 0.748499 + 0.117674I		
a = -0.319645 + 0.370992I	-6.75237 + 0.75022I	-7.29921 + 3.68885I
b = 1.66519 - 1.15111I		
u = 0.748499 - 0.117674I		
a = -0.319645 - 0.370992I	-6.75237 - 0.75022I	-7.29921 - 3.68885I
b = 1.66519 + 1.15111I		
u = -0.523660 + 0.493433I		
a = -0.26799 - 2.25574I	5.54248 + 3.96289I	-2.44446 - 3.78941I
b = -0.842541 + 0.974175I		
u = -0.523660 - 0.493433I		
a = -0.26799 + 2.25574I	5.54248 - 3.96289I	-2.44446 + 3.78941I
b = -0.842541 - 0.974175I		
u = -0.465307 + 1.214150I		
a = 0.211228 + 0.623389I	2.39163 + 1.28478I	0
b = 0.398293 - 0.592596I		
u = -0.465307 - 1.214150I		
a = 0.211228 - 0.623389I	2.39163 - 1.28478I	0
b = 0.398293 + 0.592596I		
u = -0.696063 + 0.006993I		
a = -0.274649 - 0.181788I	-1.55465 + 0.00820I	-7.37344 + 0.46182I
b = -1.096560 + 0.119297I		
u = -0.696063 - 0.006993I		
a = -0.274649 + 0.181788I	-1.55465 - 0.00820I	-7.37344 - 0.46182I
b = -1.096560 - 0.119297I		
u = -0.495506 + 0.487466I		
a = -0.42509 + 1.42469I	-5.63283 + 2.58512I	-1.14489 - 6.76714I
b = -0.27362 - 1.79611I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.495506 - 0.487466I		
a = -0.42509 - 1.42469I	-5.63283 - 2.58512I	-1.14489 + 6.76714I
b = -0.27362 + 1.79611I		
u = -0.988561 + 0.880973I		
a = -0.220670 - 0.465255I	-0.83889 + 3.23068I	0
b = -0.492990 + 1.062540I		
u = -0.988561 - 0.880973I		
a = -0.220670 + 0.465255I	-0.83889 - 3.23068I	0
b = -0.492990 - 1.062540I		
u = -0.387945 + 1.272310I		
a = 0.621655 + 0.392644I	-4.61492 - 2.02556I	0
b = -0.651425 - 0.826090I		
u = -0.387945 - 1.272310I		
a = 0.621655 - 0.392644I	-4.61492 + 2.02556I	0
b = -0.651425 + 0.826090I		
u = 0.935566 + 0.966645I		
a = -0.002676 + 1.200680I	1.44567 - 6.72870I	0
b = -0.682271 - 1.007510I		
u = 0.935566 - 0.966645I		
a = -0.002676 - 1.200680I	1.44567 + 6.72870I	0
b = -0.682271 + 1.007510I		
u = -1.089730 + 0.793182I		
a = 0.216148 + 1.161190I	-6.58540 + 8.60086I	0
b = 1.16755 - 1.12635I		
u = -1.089730 - 0.793182I		
a = 0.216148 - 1.161190I	-6.58540 - 8.60086I	0
b = 1.16755 + 1.12635I		
u = 0.494600 + 0.409927I		
a = 0.195116 - 0.713007I	-6.21653 - 7.51366I	-3.0342 + 15.2771I
b = -1.83684 + 1.39416I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.494600 - 0.409927I		
a = 0.195116 + 0.713007I	-6.21653 + 7.51366I	-3.0342 - 15.2771I
b = -1.83684 - 1.39416I		
u = 0.559470 + 0.256633I		
a = 0.25535 + 1.85165I	-0.67022 - 2.58077I	-5.47128 - 2.25816I
b = 0.101923 - 0.706888I		
u = 0.559470 - 0.256633I		
a = 0.25535 - 1.85165I	-0.67022 + 2.58077I	-5.47128 + 2.25816I
b = 0.101923 + 0.706888I		
u = 0.545951 + 0.227105I		
a = 1.73598 + 2.22492I	-0.83120 - 2.98976I	-7.50848 + 10.23936I
b = 0.315590 + 0.060991I		
u = 0.545951 - 0.227105I		
a = 1.73598 - 2.22492I	-0.83120 + 2.98976I	-7.50848 - 10.23936I
b = 0.315590 - 0.060991I		
u = 1.08241 + 0.91304I		
a = -0.046420 + 1.061490I	1.30391 - 7.00857I	0
b = -0.76894 - 1.24936I		
u = 1.08241 - 0.91304I		
a = -0.046420 - 1.061490I	1.30391 + 7.00857I	0
b = -0.76894 + 1.24936I		
u = 0.562576 + 0.139521I		
a = -0.22425 + 1.56597I	-1.10831 - 2.66434I	-5.93853 + 8.28488I
b = -0.682109 - 1.183950I		
u = 0.562576 - 0.139521I		
a = -0.22425 - 1.56597I	-1.10831 + 2.66434I	-5.93853 - 8.28488I
b = -0.682109 + 1.183950I		
u = -1.11277 + 0.94222I		
a = -0.200409 - 0.727141I	-1.27355 + 3.67313I	0
b = -0.985875 + 0.998786I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.11277 - 0.94222I		
a = -0.200409 + 0.727141I	-1.27355 - 3.67313I	0
b = -0.985875 - 0.998786I		
u = -0.74145 + 1.28136I		
a = 0.043294 - 0.596779I	-1.00429 + 4.67365I	0
b = -0.96222 + 1.21614I		
u = -0.74145 - 1.28136I		
a = 0.043294 + 0.596779I	-1.00429 - 4.67365I	0
b = -0.96222 - 1.21614I		
u = 1.15392 + 0.98438I		
a = 0.189656 - 0.983503I	1.04209 - 11.12800I	0
b = 1.05649 + 1.04370I		
u = 1.15392 - 0.98438I		
a = 0.189656 + 0.983503I	1.04209 + 11.12800I	0
b = 1.05649 - 1.04370I		
u = 1.27578 + 0.82674I		
a = -0.028210 - 0.747755I	-10.63430 - 0.77932I	0
b = 0.983703 + 0.510288I		
u = 1.27578 - 0.82674I		
a = -0.028210 + 0.747755I	-10.63430 + 0.77932I	0
b = 0.983703 - 0.510288I		
u = -1.19102 + 0.96689I		
a = 0.042364 + 0.852648I	0.59670 + 6.60400I	0
b = 0.663009 - 1.174750I		
u = -1.19102 - 0.96689I		
a = 0.042364 - 0.852648I	0.59670 - 6.60400I	0
b = 0.663009 + 1.174750I		
u = -1.17866 + 1.01377I		
a = -0.100366 - 1.020500I	-5.7029 + 17.1137I	0
b = -1.13483 + 1.20250I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.17866 - 1.01377I		
a = -0.100366 + 1.020500I	-5.7029 - 17.1137I	0
b = -1.13483 - 1.20250I		
u = 0.73522 + 1.41650I		
a = 0.226876 - 0.344497I	2.27228 + 3.02090I	0
b = -0.264437 + 0.769397I		
u = 0.73522 - 1.41650I		
a = 0.226876 + 0.344497I	2.27228 - 3.02090I	0
b = -0.264437 - 0.769397I		
u = -1.44998 + 0.70189I		
a = -0.000402 - 0.374388I	1.85212 + 2.45583I	0
b = 0.1367910 + 0.0032125I		
u = -1.44998 - 0.70189I		
a = -0.000402 + 0.374388I	1.85212 - 2.45583I	0
b = 0.1367910 - 0.0032125I		
u = -1.31500 + 0.99989I		
a = 0.182254 + 0.531020I	-0.14857 + 5.14205I	0
b = 0.362827 - 0.503241I		
u = -1.31500 - 0.99989I		
a = 0.182254 - 0.531020I	-0.14857 - 5.14205I	0
b = 0.362827 + 0.503241I		
u = -0.288327 + 0.137249I		
a = 4.30796 + 0.13760I	0.538773 + 0.309700I	3.47469 - 5.36190I
b = 0.903613 + 0.110211I		
u = -0.288327 - 0.137249I		
a = 4.30796 - 0.13760I	0.538773 - 0.309700I	3.47469 + 5.36190I
b = 0.903613 - 0.110211I		
u = 1.28118 + 1.19069I		
a = 0.119945 + 0.585097I	-9.31303 - 8.44012I	0
b = -0.949737 - 0.531912I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.28118 - 1.19069I		
a = 0.119945 - 0.585097I	-9.31303 + 8.44012I	0
b = -0.949737 + 0.531912I		
u = -0.95767 + 1.50703I		
a = -0.418269 - 0.219069I	-4.63907 - 8.62640I	0
b = 0.367757 + 0.773933I		
u = -0.95767 - 1.50703I		
a = -0.418269 + 0.219069I	-4.63907 + 8.62640I	0
b = 0.367757 - 0.773933I		
u = -0.111723 + 0.086958I		
a = -2.13788 + 5.96459I	-3.12995 + 2.73682I	-1.58248 - 2.63513I
b = -1.118850 + 0.549458I		
u = -0.111723 - 0.086958I		
a = -2.13788 - 5.96459I	-3.12995 - 2.73682I	-1.58248 + 2.63513I
b = -1.118850 - 0.549458I		
u = 1.84411 + 0.58993I		
a = 0.151269 - 0.012341I	4.21313 - 0.76858I	0
b = -0.052124 + 0.551302I		
u = 1.84411 - 0.58993I		
a = 0.151269 + 0.012341I	4.21313 + 0.76858I	0
b = -0.052124 - 0.551302I		

 $II. \\ I_2^u = \langle -9.09 \times 10^{21} u^{22} + 3.04 \times 10^{21} u^{21} + \dots + 1.48 \times 10^{22} b + 1.58 \times 10^{22}, \ -1.26 \times 10^{22} u^{22} + 3.41 \times 10^{22} u^{21} + \dots + 7.39 \times 10^{22} a - 5.26 \times 10^{22}, \ u^{23} - u^{22} + \dots - u + 1 \rangle$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} 0.170683u^{22} - 0.461478u^{21} + \cdots - 0.608422u + 0.712319 \\ 0.615395u^{22} - 0.205789u^{21} + \cdots - 1.78014u - 1.07193 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.786078u^{22} - 0.667267u^{21} + \cdots - 2.38857u - 0.359615 \\ 0.615395u^{22} - 0.205789u^{21} + \cdots - 1.78014u - 1.07193 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.797082u^{22} - 0.983781u^{21} + \cdots - 5.25216u - 2.32110 \\ 1.02448u^{22} - 0.766385u^{21} + \cdots - 2.49088u - 1.94129 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.438850u^{22} - 0.780715u^{21} + \cdots - 1.27569u + 0.593508 \\ 0.420281u^{22} - 0.101126u^{21} + \cdots - 1.89359u - 0.611259 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.763143u^{22} + 0.220845u^{21} + \cdots + 1.03258u + 0.562499 \\ 0.535749u^{22} - 0.438240u^{21} + \cdots + 1.79386u - 0.942303 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.244540u^{22} - 0.101985u^{21} + \cdots + 0.131270u + 1.25096 \\ -0.601253u^{22} + 0.339266u^{21} + \cdots + 0.179268u + 1.57292 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 1.06649u^{22} - 0.622172u^{21} + \cdots - 0.149983u - 0.464514 \\ -0.447852u^{22} + 0.245652u^{21} + \cdots - 0.340918u + 1.27115 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 3.13314u^{22} - 2.17629u^{21} + \cdots - 0.340918u + 1.27115 \\ 0.281545u^{22} - 0.0491004u^{21} + \cdots + 1.03334u + 0.268967 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.99256u^{22} + 1.36071u^{21} + \cdots + 4.66860u + 2.56001 \\ -0.231287u^{22} + 0.0196431u^{21} + \cdots + 4.66860u + 2.56001 \\ -0.231287u^{22} + 0.0196431u^{21} + \cdots + 4.66860u + 2.56001 \\ -0.231287u^{22} + 0.0196431u^{21} + \cdots + 4.66860u + 2.56001 \\ -0.231287u^{22} + 0.0196431u^{21} + \cdots - 1.07710u + 0.0213039 \end{pmatrix}$$

(ii) Obstruction class = 1

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 23u^{22} + \dots - 5u + 1$
c_2	$u^{23} + 3u^{22} + \dots - 5u - 1$
c_3	$u^{23} - 11u^{21} + \dots + 4u - 4$
c_4	$u^{23} - u^{22} + \dots - u + 1$
<i>C</i> ₅	$u^{23} - 3u^{22} + \dots - 5u + 1$
	$u^{23} - 7u^{22} + \dots - u - 1$
	$u^{23} + u^{22} + \dots + 277u - 25$
<i>C</i> ₈	$u^{23} + u^{22} + \dots - u + 1$
<i>c</i> ₉	$u^{23} + 7u^{22} + \dots - u + 1$
c_{10}	$u^{23} - 11u^{21} + \dots + 4u + 4$
c_{11}	$u^{23} - 3u^{22} + \dots - u - 1$
c_{12}	$u^{23} + u^{21} + \dots - 16u - 4$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} - 37y^{22} + \dots + 15y - 1$
c_2, c_5	$y^{23} + 23y^{22} + \dots - 5y - 1$
c_3,c_{10}	$y^{23} - 22y^{22} + \dots + 80y - 16$
<i>c</i> ₄	$y^{23} - 5y^{22} + \dots + 7y - 1$
c_6, c_9	$y^{23} + 15y^{22} + \dots + 3y - 1$
<i>C</i> ₇	$y^{23} - 5y^{22} + \dots + 35579y - 625$
C ₈	$y^{23} + 11y^{22} + \dots - 27y - 1$
c_{11}	$y^{23} - 5y^{22} + \dots + 5y - 1$
c_{12}	$y^{23} + 2y^{22} + \dots - 128y - 16$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.731235 + 0.720695I		
a = 0.07221 - 1.44212I	6.02773 - 5.38429I	1.58961 + 7.50886I
b = 0.82742 + 1.33530I		
u = 0.731235 - 0.720695I		
a = 0.07221 + 1.44212I	6.02773 + 5.38429I	1.58961 - 7.50886I
b = 0.82742 - 1.33530I		
u = -0.451358 + 0.763359I		
a = -0.02344 - 1.62840I	6.47852 + 3.67171I	5.05436 - 1.40932I
b = -0.961846 + 0.981295I		
u = -0.451358 - 0.763359I		
a = -0.02344 + 1.62840I	6.47852 - 3.67171I	5.05436 + 1.40932I
b = -0.961846 - 0.981295I		
u = -0.736084 + 1.023050I		
a = 0.000846 + 0.648467I	0.48780 + 3.96432I	3.15093 - 8.04453I
b = 0.105502 - 1.020420I		
u = -0.736084 - 1.023050I		
a = 0.000846 - 0.648467I	0.48780 - 3.96432I	3.15093 + 8.04453I
b = 0.105502 + 1.020420I		
u = 0.710083 + 1.187680I		
a = -0.617574 + 0.477191I	3.11012 - 0.16471I	10.59532 - 0.10440I
b = -0.059064 - 0.619957I		
u = 0.710083 - 1.187680I		
a = -0.617574 - 0.477191I	3.11012 + 0.16471I	10.59532 + 0.10440I
b = -0.059064 + 0.619957I		
u = -0.89617 + 1.11622I		
a = 0.036477 + 0.651810I	-1.29427 + 4.46459I	-10.37642 - 5.61721I
b = 1.03520 - 1.25075I		
u = -0.89617 - 1.11622I		
a = 0.036477 - 0.651810I	-1.29427 - 4.46459I	-10.37642 + 5.61721I
b = 1.03520 + 1.25075I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.519697		
a = 3.04560	0.0865225	-9.70390
b = 0.939628		
u = -0.408794 + 0.286092I		
a = -1.20734 + 2.30061I	-0.26931 + 2.82970I	9.42610 - 6.03745I
b = -0.050189 - 0.760743I		
u = -0.408794 - 0.286092I		
a = -1.20734 - 2.30061I	-0.26931 - 2.82970I	9.42610 + 6.03745I
b = -0.050189 + 0.760743I		
u = 0.490813 + 0.070479I		
a = -1.78315 - 0.94699I	-6.33659 + 1.58059I	-3.12037 - 2.30169I
b = -0.86159 + 1.21916I		
u = 0.490813 - 0.070479I		
a = -1.78315 + 0.94699I	-6.33659 - 1.58059I	-3.12037 + 2.30169I
b = -0.86159 - 1.21916I		
u = 0.186913 + 0.444271I		
a = 1.34944 - 0.94080I	-6.19036 - 6.81849I	-1.58405 + 2.82845I
b = 0.876524 - 0.917306I		
u = 0.186913 - 0.444271I		
a = 1.34944 + 0.94080I	-6.19036 + 6.81849I	-1.58405 - 2.82845I
b = 0.876524 + 0.917306I		
u = 1.18516 + 0.98943I		
a = -0.035369 + 1.025860I	1.62124 - 7.58679I	6.2802 + 14.4688I
b = -0.641385 - 1.228660I		
u = 1.18516 - 0.98943I		
a = -0.035369 - 1.025860I	1.62124 + 7.58679I	6.2802 - 14.4688I
b = -0.641385 + 1.228660I		
u = 1.61755 + 0.10799I		
a = 0.244155 + 0.255784I	3.93868 + 1.07679I	3.60784 - 10.46791I
b = -0.061603 + 0.408192I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.61755 - 0.10799I		
a = 0.244155 - 0.255784I	3.93868 - 1.07679I	3.60784 + 10.46791I
b = -0.061603 - 0.408192I		
u = -1.66949 + 1.18058I		
a = -0.059058 - 0.227943I	2.25280 + 2.65056I	11.7285 - 10.8769I
b = -0.178787 + 0.528239I		
u = -1.66949 - 1.18058I		
a = -0.059058 + 0.227943I	2.25280 - 2.65056I	11.7285 + 10.8769I
b = -0.178787 - 0.528239I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{23} - 23u^{22} + \dots - 5u + 1)(u^{77} + 84u^{76} + \dots + 220776u - 9409) $
c_2	$(u^{23} + 3u^{22} + \dots - 5u - 1)(u^{77} - 2u^{76} + \dots + 584u + 97)$
<i>c</i> ₃	$(u^{23} - 11u^{21} + \dots + 4u - 4)(u^{77} - u^{76} + \dots - 404u - 44)$
C ₄	$(u^{23} - u^{22} + \dots - u + 1)(u^{77} + 4u^{76} + \dots + 14u + 1)$
<i>C</i> ₅	$(u^{23} - 3u^{22} + \dots - 5u + 1)(u^{77} - 2u^{76} + \dots + 584u + 97)$
<i>C</i> ₆	$(u^{23} - 7u^{22} + \dots - u - 1)(u^{77} + 6u^{76} + \dots - 8u + 1)$
	$(u^{23} + u^{22} + \dots + 277u - 25)(u^{77} + 14u^{76} + \dots + 936770u - 675287)$
C ₈	$(u^{23} + u^{22} + \dots - u + 1)(u^{77} + 4u^{76} + \dots - 24u + 1)$
<i>C</i> 9	$(u^{23} + 7u^{22} + \dots - u + 1)(u^{77} + 6u^{76} + \dots - 8u + 1)$
c_{10}	$(u^{23} - 11u^{21} + \dots + 4u + 4)(u^{77} - u^{76} + \dots - 404u - 44)$
c_{11}	$(u^{23} - 3u^{22} + \dots - u - 1)(u^{77} - 2u^{76} + \dots + 16u + 1)$
c_{12}	$(u^{23} + u^{21} + \dots - 16u - 4)(u^{77} - 3u^{76} + \dots - 482672u + 37636)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{23} - 37y^{22} + \dots + 15y - 1)$ $\cdot (y^{77} - 172y^{76} + \dots + 7173569444y - 88529281)$
c_2, c_5	$(y^{23} + 23y^{22} + \dots - 5y - 1)(y^{77} + 84y^{76} + \dots + 220776y - 9409)$
c_3, c_{10}	$(y^{23} - 22y^{22} + \dots + 80y - 16)(y^{77} - 37y^{76} + \dots + 117808y - 1936)$
<i>C</i> ₄	$(y^{23} - 5y^{22} + \dots + 7y - 1)(y^{77} - 12y^{76} + \dots + 68y - 1)$
c_6, c_9	$(y^{23} + 15y^{22} + \dots + 3y - 1)(y^{77} + 12y^{76} + \dots + 4y - 1)$
c ₇	$(y^{23} - 5y^{22} + \dots + 35579y - 625)$ $\cdot (y^{77} + 40y^{76} + \dots + 11472934223744y - 456012532369)$
c_8	$(y^{23} + 11y^{22} + \dots - 27y - 1)(y^{77} + 12y^{76} + \dots + 98y - 1)$
c_{11}	$(y^{23} - 5y^{22} + \dots + 5y - 1)(y^{77} - 8y^{76} + \dots + 54y - 1)$
c_{12}	$(y^{23} + 2y^{22} + \dots - 128y - 16)$ $\cdot (y^{77} - 13y^{76} + \dots + 29073057280y - 1416468496)$