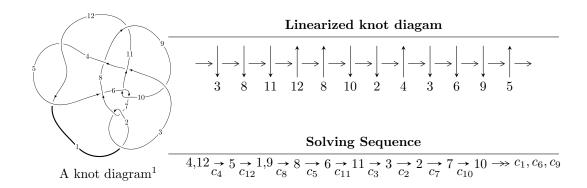
$12n_{0646} \ (K12n_{0646})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.58803 \times 10^{237} u^{73} + 9.98357 \times 10^{236} u^{72} + \dots + 1.04871 \times 10^{239} b - 4.84351 \times 10^{239} g + 2.36054 \times 10^{238} u^{73} + 1.15336 \times 10^{239} u^{72} + \dots + 6.18737 \times 10^{240} a + 6.07876 \times 10^{241}, \\ u^{74} &= 23u^{72} + \dots - 1348u + 59 \rangle \\ I_2^u &= \langle 10945u^{22} + 124117u^{21} + \dots + 323513b - 770040, \\ &- 1292813u^{22} - 1139926u^{21} + \dots + 2264591a - 1752915, \ u^{23} + u^{22} + \dots + 6u + 7 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 97 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.
$$I_1^u = \langle 1.59 \times 10^{237} u^{73} + 9.98 \times 10^{236} u^{72} + \cdots + 1.05 \times 10^{239} b - 4.84 \times 10^{239}, \ 2.36 \times 10^{238} u^{73} + 1.15 \times 10^{239} u^{72} + \cdots + 6.19 \times 10^{240} a + 6.08 \times 10^{241}, \ u^{74} - 23 u^{72} + \cdots - 1348 u + 59 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{9} = \begin{pmatrix} 0.0151427u^{73} - 0.0186406u^{72} + \dots + 143.928u - 9.82446 \\ -0.0151427u^{73} - 0.00951988u^{72} + \dots - 57.5931u + 4.61855 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.0113276u^{73} - 0.00912068u^{72} + \dots + 201.521u - 14.4430 \\ -0.0151427u^{73} - 0.00951988u^{72} + \dots - 57.5931u + 4.61855 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0317970u^{73} + 0.0254113u^{72} + \dots + 41.9592u - 9.10400 \\ -0.0151377u^{73} - 0.0157835u^{72} + \dots + 8.09941u - 0.430016 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.0232878u^{73} - 0.0230889u^{72} + \dots + 5.49692u - 4.11660 \\ 0.0139050u^{73} + 0.00829155u^{72} + \dots + 29.1837u - 0.868546 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.0319762u^{73} - 0.0216255u^{72} + \dots + 71.9715u + 6.77566 \\ 0.0246533u^{73} + 0.0189372u^{72} + \dots + 32.4888u - 1.70516 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.0124870u^{73} + 0.0121558u^{72} + \dots + 18.8902u - 1.56877 \\ -0.0138331u^{73} - 0.0119768u^{72} + \dots + 19.0668u + 0.944486 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.0344961u^{73} - 0.0473584u^{72} + \dots + 140.483u - 11.9122 \\ 0.0110322u^{73} + 0.0116464u^{72} + \dots - 18.3283u + 2.94677 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0361091u^{73} - 0.0518980u^{72} + \dots + 169.740u - 14.6086 \\ 0.0250197u^{73} + 0.0231141u^{72} + \dots - 2.04277u + 2.76319 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.00383692u^{73} + 0.0116603u^{72} + \cdots 82.4847u + 0.241670$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{74} + 83u^{73} + \dots - 742961u + 32761$
c_2, c_7	$u^{74} + u^{73} + \dots - 1071u + 181$
c_3	$u^{74} + 5u^{73} + \dots + 35u + 67$
c_4, c_{12}	$u^{74} - 23u^{72} + \dots - 1348u + 59$
c_5	$u^{74} + 12u^{73} + \dots + 241794036u + 20549479$
c_6, c_{10}	$u^{74} + 9u^{72} + \dots + 14u + 1$
c ₈	$u^{74} - 3u^{73} + \dots + 9u - 1$
<i>C</i> 9	$u^{74} - u^{73} + \dots + 5432040u - 294541$
c_{11}	$u^{74} - u^{73} + \dots + 26u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{74} - 171y^{73} + \dots - 248386801315y + 1073283121$
c_2, c_7	$y^{74} - 83y^{73} + \dots + 742961y + 32761$
c_3	$y^{74} - 23y^{73} + \dots - 170601y + 4489$
c_4, c_{12}	$y^{74} - 46y^{73} + \dots - 867912y + 3481$
<i>C</i> ₅	$y^{74} + 72y^{73} + \dots + 4872087324166162y + 422281087171441$
c_6, c_{10}	$y^{74} + 18y^{73} + \dots - 460y + 1$
<i>c</i> ₈	$y^{74} - 9y^{73} + \dots - 129y + 1$
<i>c</i> ₉	$y^{74} - 41y^{73} + \dots - 4467923151064y + 86754400681$
c_{11}	$y^{74} + 7y^{73} + \dots - 144y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.655798 + 0.766408I		
a = 0.869120 + 0.744224I	-8.29346 + 2.75368I	0
b = -1.35513 + 0.70847I		
u = -0.655798 - 0.766408I		
a = 0.869120 - 0.744224I	-8.29346 - 2.75368I	0
b = -1.35513 - 0.70847I		
u = -0.965313 + 0.158931I		
a = 0.972971 - 0.580114I	1.82145 - 4.11786I	0. + 8.23328I
b = -0.574458 + 0.287498I		
u = -0.965313 - 0.158931I		
a = 0.972971 + 0.580114I	1.82145 + 4.11786I	0 8.23328I
b = -0.574458 - 0.287498I		
u = -0.915463 + 0.481248I		
a = -1.301600 - 0.360841I	-7.16001 - 3.26958I	0
b = 1.42148 - 0.29716I		
u = -0.915463 - 0.481248I		
a = -1.301600 + 0.360841I	-7.16001 + 3.26958I	0
b = 1.42148 + 0.29716I		
u = -0.846052 + 0.596785I		
a = -0.148846 - 0.608636I	-7.32108 - 1.01128I	0
b = -1.10293 - 1.17110I		
u = -0.846052 - 0.596785I		
a = -0.148846 + 0.608636I	-7.32108 + 1.01128I	0
b = -1.10293 + 1.17110I		
u = -0.964557 + 0.396965I		
a = -0.392535 - 1.170080I	1.18006 - 5.95366I	0
b = 1.22014 - 1.00039I		
u = -0.964557 - 0.396965I		
a = -0.392535 + 1.170080I	1.18006 + 5.95366I	0
b = 1.22014 + 1.00039I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.985961 + 0.412954I		
a = -2.13540 - 0.84349I	-5.83823 + 6.62476I	0
b = 0.367620 + 0.144013I		
u = 0.985961 - 0.412954I		
a = -2.13540 + 0.84349I	-5.83823 - 6.62476I	0
b = 0.367620 - 0.144013I		
u = 0.774737 + 0.472773I		
a = 0.78398 + 1.88499I	-6.51675 - 3.02533I	-7.09255 + 5.00598I
b = -0.437396 + 0.860845I		
u = 0.774737 - 0.472773I		
a = 0.78398 - 1.88499I	-6.51675 + 3.02533I	-7.09255 - 5.00598I
b = -0.437396 - 0.860845I		
u = -0.894325		
a = -1.14517	-0.954299	-9.82620
b = 0.120420		
u = 0.021010 + 0.882929I		
a = -0.855935 - 0.904683I	-2.26108 + 2.43230I	-9.75705 - 2.77573I
b = -0.535620 - 0.743252I		
u = 0.021010 - 0.882929I		
a = -0.855935 + 0.904683I	-2.26108 - 2.43230I	-9.75705 + 2.77573I
b = -0.535620 + 0.743252I		
u = 0.753306 + 0.428451I		
a = -0.01914 + 1.95753I	2.81045 + 5.61623I	-4.20124 - 6.00638I
b = 0.815160 + 0.718326I		
u = 0.753306 - 0.428451I		
a = -0.01914 - 1.95753I	2.81045 - 5.61623I	-4.20124 + 6.00638I
b = 0.815160 - 0.718326I		
u = 0.845381 + 0.156772I		
a = -0.179363 + 0.806483I	2.50679 + 0.22280I	1.160362 - 0.536343I
b = 0.937521 + 0.034650I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.845381 - 0.156772I		
a = -0.179363 - 0.806483I	2.50679 - 0.22280I	1.160362 + 0.536343I
b = 0.937521 - 0.034650I		
u = -0.747820 + 0.348453I		
a = 0.02740 - 1.73267I	-1.09279 - 2.96806I	-12.4081 + 9.2557I
b = 0.281766 - 0.913256I		
u = -0.747820 - 0.348453I		
a = 0.02740 + 1.73267I	-1.09279 + 2.96806I	-12.4081 - 9.2557I
b = 0.281766 + 0.913256I		
u = 1.097690 + 0.464463I		
a = -0.09607 - 1.62484I	-6.21900 + 4.81585I	0
b = 0.098368 - 0.983912I		
u = 1.097690 - 0.464463I		
a = -0.09607 + 1.62484I	-6.21900 - 4.81585I	0
b = 0.098368 + 0.983912I		
u = -1.049620 + 0.578940I		
a = 0.147679 + 0.427039I	-7.02322 - 7.85025I	0
b = 0.92680 + 1.54482I		
u = -1.049620 - 0.578940I		
a = 0.147679 - 0.427039I	-7.02322 + 7.85025I	0
b = 0.92680 - 1.54482I		
u = -1.202410 + 0.158541I		
a = 0.089960 + 0.140257I	1.55515 + 3.70197I	0
b = -0.784654 - 0.680195I		
u = -1.202410 - 0.158541I		
a = 0.089960 - 0.140257I	1.55515 - 3.70197I	0
b = -0.784654 + 0.680195I		
u = 0.771268 + 0.039152I		
a = 0.981686 - 0.957054I	1.74698 + 0.32926I	-1.62591 + 0.32056I
b = -1.49247 - 0.58340I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.771268 - 0.039152I		
a = 0.981686 + 0.957054I	1.74698 - 0.32926I	-1.62591 - 0.32056I
b = -1.49247 + 0.58340I		
u = 0.919006 + 0.821173I		
a = -0.192595 + 0.795743I	1.35546 + 3.43403I	0
b = 1.17685 + 0.91692I		
u = 0.919006 - 0.821173I		
a = -0.192595 - 0.795743I	1.35546 - 3.43403I	0
b = 1.17685 - 0.91692I		
u = -1.243770 + 0.270809I		
a = 0.596369 + 1.181910I	6.67491 - 4.74644I	0
b = -0.997710 + 0.666984I		
u = -1.243770 - 0.270809I		
a = 0.596369 - 1.181910I	6.67491 + 4.74644I	0
b = -0.997710 - 0.666984I		
u = 0.470959 + 0.537045I		
a = 2.62151 - 1.11038I	-8.14386 - 0.75783I	-15.9338 - 3.9359I
b = -0.046697 - 0.372483I		
u = 0.470959 - 0.537045I		
a = 2.62151 + 1.11038I	-8.14386 + 0.75783I	-15.9338 + 3.9359I
b = -0.046697 + 0.372483I		
u = 1.282620 + 0.200693I		
a = 0.554347 - 0.664419I	2.91081 + 4.20783I	0
b = -1.40018 - 1.15063I		
u = 1.282620 - 0.200693I		
a = 0.554347 + 0.664419I	2.91081 - 4.20783I	0
b = -1.40018 + 1.15063I		
u = -1.298030 + 0.205140I		
a = -0.432301 - 1.003540I	1.90861 - 6.12809I	0
b = 1.09376 - 1.17630I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.298030 - 0.205140I		
a = -0.432301 + 1.003540I	1.90861 + 6.12809I	0
b = 1.09376 + 1.17630I		
u = 1.312430 + 0.246619I		
a = -0.159546 + 0.445122I	2.74861 + 1.42952I	0
b = 0.847012 + 0.717184I		
u = 1.312430 - 0.246619I		
a = -0.159546 - 0.445122I	2.74861 - 1.42952I	0
b = 0.847012 - 0.717184I		
u = -0.328781 + 1.323690I		
a = 0.348126 + 0.339963I	-1.14232 + 4.08189I	0
b = 0.525286 + 0.880984I		
u = -0.328781 - 1.323690I		
a = 0.348126 - 0.339963I	-1.14232 - 4.08189I	0
b = 0.525286 - 0.880984I		
u = 0.396021 + 0.484207I		
a = -0.478537 + 0.330222I	-1.06612 + 2.28791I	-9.94456 - 3.29711I
b = -0.14607 + 1.42484I		
u = 0.396021 - 0.484207I		
a = -0.478537 - 0.330222I	-1.06612 - 2.28791I	-9.94456 + 3.29711I
b = -0.14607 - 1.42484I		
u = -0.378716 + 0.457118I		
a = 1.64287 - 0.19150I	3.34314 + 2.04546I	-1.45171 - 1.17441I
b = 0.780151 - 0.056187I		
u = -0.378716 - 0.457118I		
a = 1.64287 + 0.19150I	3.34314 - 2.04546I	-1.45171 + 1.17441I
b = 0.780151 + 0.056187I		
u = -1.23386 + 0.70848I		
a = 0.298842 + 0.935259I	1.59205 - 10.86400I	0
b = -1.27459 + 1.00051I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.23386 - 0.70848I		
a = 0.298842 - 0.935259I	1.59205 + 10.86400I	0
b = -1.27459 - 1.00051I		
u = 1.39427 + 0.45022I		
a = -0.240132 - 0.502315I	4.81856 - 1.48237I	0
b = -0.452753 - 0.074158I		
u = 1.39427 - 0.45022I		
a = -0.240132 + 0.502315I	4.81856 + 1.48237I	0
b = -0.452753 + 0.074158I		
u = -1.47129		
a = -0.811222	-1.54712	0
b = 0.288330		
u = 1.43434 + 0.38897I		
a = -0.540506 + 0.537467I	2.16075 + 2.17644I	0
b = 1.36368 + 0.82268I		
u = 1.43434 - 0.38897I		
a = -0.540506 - 0.537467I	2.16075 - 2.17644I	0
b = 1.36368 - 0.82268I		
u = 0.11140 + 1.48650I		
a = -0.446418 + 0.632857I	-10.06450 - 9.11027I	0
b = -0.726218 + 0.933179I		
u = 0.11140 - 1.48650I		
a = -0.446418 - 0.632857I	-10.06450 + 9.11027I	0
b = -0.726218 - 0.933179I		
u = 1.27797 + 0.77796I		
a = 0.054128 - 0.537788I	2.27044 + 3.86617I	0
b = -0.661480 - 0.188312I		
u = 1.27797 - 0.77796I		
a = 0.054128 + 0.537788I	2.27044 - 3.86617I	0
b = -0.661480 + 0.188312I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.50265 + 1.41427I		
a = 0.552978 - 0.455848I	-9.71632 - 1.35291I	0
b = 0.585875 - 0.772913I		
u = 0.50265 - 1.41427I		
a = 0.552978 + 0.455848I	-9.71632 + 1.35291I	0
b = 0.585875 + 0.772913I		
u = 1.26097 + 0.83176I		
a = 0.199374 - 1.092040I	-7.22130 + 8.96738I	0
b = -1.05828 - 1.03852I		
u = 1.26097 - 0.83176I		
a = 0.199374 + 1.092040I	-7.22130 - 8.96738I	0
b = -1.05828 + 1.03852I		
u = -0.478233		
a = -1.48533	-1.01756	-9.85560
b = -0.193213		
u = 1.44910 + 0.71346I		
a = -0.339147 + 0.994028I	-5.8720 + 16.6158I	0
b = 1.20794 + 1.04725I		
u = 1.44910 - 0.71346I		
a = -0.339147 - 0.994028I	-5.8720 - 16.6158I	0
b = 1.20794 - 1.04725I		
u = -1.43999 + 0.91289I		
a = 0.078936 - 0.637578I	-3.71000 - 8.50390I	0
b = 0.840470 - 0.448062I		
u = -1.43999 - 0.91289I		
a = 0.078936 + 0.637578I	-3.71000 + 8.50390I	0
b = 0.840470 + 0.448062I		
u = -1.20485 + 1.21909I		
a = -0.197169 + 0.455659I	-5.22524 - 0.83630I	0
b = -0.678604 + 0.449090I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.20485 - 1.21909I		
a = -0.197169 - 0.455659I	-5.22524 + 0.83630I	0
b = -0.678604 - 0.449090I		
u = 0.0777028 + 0.0283731I		
a = 2.71739 + 4.75753I	-0.88271 - 2.35880I	-7.30268 - 2.94254I
b = 0.447185 - 1.220730I		
u = 0.0777028 - 0.0283731I		
a = 2.71739 - 4.75753I	-0.88271 + 2.35880I	-7.30268 + 2.94254I
b = 0.447185 + 1.220730I		
u = -2.48363		
a = 0.0328074	-2.98919	0
b = 0.360820		

$$II. \\ I_2^u = \langle 1.09 \times 10^4 u^{22} + 1.24 \times 10^5 u^{21} + \dots + 3.24 \times 10^5 b - 7.70 \times 10^5, \; -1.29 \times \\ 10^6 u^{22} - 1.14 \times 10^6 u^{21} + \dots + 2.26 \times 10^6 a - 1.75 \times 10^6, \; u^{23} + u^{22} + \dots + 6u + 7 \rangle$$

(i) Arc colorings

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

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

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

$$a_{1} = \begin{pmatrix} 0 \\ -u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.570881u^{22} + 0.503369u^{21} + \dots + 0.996580u + 0.774054 \\ -0.0338317u^{22} - 0.383654u^{21} + \dots + 4.19368u + 2.38024 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.604713u^{22} + 0.887023u^{21} + \dots - 3.19710u - 1.60619 \\ -0.0338317u^{22} - 0.383654u^{21} + \dots + 4.19368u + 2.38024 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.715072u^{22} + 1.60066u^{21} + \dots - 8.26166u - 0.692739 \\ 0.140643u^{22} + 0.0151895u^{21} + \dots + 3.15600u + 2.81671 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.174507u^{22} - 1.00570u^{21} + \dots + 6.80089u + 5.50371 \\ 0.444573u^{22} + 0.348014u^{21} + \dots - 3.73106u + 0.847542 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.741805u^{22} - 0.369258u^{21} + \dots - 2.84354u - 2.11154 \\ 0.00713109u^{22} + 0.988770u^{21} + \dots - 3.38884u - 3.70637 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -1.32743u^{22} - 0.253648u^{21} + \dots - 5.63410u - 1.62524 \\ -0.143311u^{22} + 0.692522u^{21} + \dots - 1.19043u - 3.87800 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.448108u^{22} - 0.0775385u^{21} + \dots - 5.26590u - 2.41661 \\ -0.00353927u^{22} - 0.180382u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} + 0.497193u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 4.96111u - 2.93448 \\ -0.0900397u^{22} - 0.245724u^{21} + \dots + 1.23296u + 2.27996 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{116070}{323513}u^{22} - \frac{673312}{323513}u^{21} + \dots + \frac{8778130}{323513}u + \frac{3192863}{323513}u^{21} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 22u^{22} + \dots + 13u - 1$
c_2	$u^{23} - 11u^{21} + \dots + 3u - 1$
c_3	$u^{23} - 5u^{21} + \dots - u + 1$
c_4	$u^{23} + u^{22} + \dots + 6u + 7$
<i>C</i> 5	$u^{23} + u^{22} + \dots - 214u - 19$
c_6	$u^{23} + u^{22} + \dots - 2u + 1$
c_7	$u^{23} - 11u^{21} + \dots + 3u + 1$
c_8	$u^{23} - 2u^{21} + \dots + 3u - 1$
<i>c</i> ₉	$u^{23} - 4u^{21} + \dots - 130u + 77$
c_{10}	$u^{23} - u^{22} + \dots - 2u - 1$
c_{11}	$u^{23} + 4u^{21} + \dots + 2u - 1$
c_{12}	$u^{23} - u^{22} + \dots + 6u - 7$
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(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} - 30y^{22} + \dots - 39y - 1$
c_2, c_7	$y^{23} - 22y^{22} + \dots + 13y - 1$
c_3	$y^{23} - 10y^{22} + \dots + 11y - 1$
c_4, c_{12}	$y^{23} - 25y^{22} + \dots + 414y - 49$
c_5	$y^{23} + 9y^{22} + \dots - 7860y - 361$
c_6, c_{10}	$y^{23} + 15y^{22} + \dots - 22y - 1$
c_8	$y^{23} - 4y^{22} + \dots + 31y - 1$
<i>c</i> ₉	$y^{23} - 8y^{22} + \dots + 27526y - 5929$
c_{11}	$y^{23} + 8y^{22} + \dots - 6y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.940151 + 0.436724I		
a = 1.38542 - 1.03904I	-6.14502 - 6.06691I	-7.76620 + 2.70001I
b = -0.375096 - 0.652275I		
u = -0.940151 - 0.436724I		
a = 1.38542 + 1.03904I	-6.14502 + 6.06691I	-7.76620 - 2.70001I
b = -0.375096 + 0.652275I		
u = -0.899734 + 0.566100I		
a = 0.666138 - 0.686902I	3.26577 + 3.29082I	1.12702 - 5.35953I
b = 0.587866 + 0.237361I		
u = -0.899734 - 0.566100I		
a = 0.666138 + 0.686902I	3.26577 - 3.29082I	1.12702 + 5.35953I
b = 0.587866 - 0.237361I		
u = 1.167050 + 0.232734I		
a = -0.746928 + 1.034470I	5.42529 + 3.86107I	0.38428 - 3.23578I
b = 1.145920 + 0.467030I		
u = 1.167050 - 0.232734I		
a = -0.746928 - 1.034470I	5.42529 - 3.86107I	0.38428 + 3.23578I
b = 1.145920 - 0.467030I		
u = -0.193140 + 0.771651I		
a = -0.749439 - 0.320841I	-0.70593 + 3.60670I	-4.29911 - 3.93608I
b = -0.598832 - 0.904838I		
u = -0.193140 - 0.771651I		
a = -0.749439 + 0.320841I	-0.70593 - 3.60670I	-4.29911 + 3.93608I
b = -0.598832 + 0.904838I		
u = -1.203350 + 0.187731I		
a = 0.50630 + 1.32809I	4.95788 - 5.88075I	-0.13221 + 5.80716I
b = -0.956631 + 0.862062I		
u = -1.203350 - 0.187731I		
a = 0.50630 - 1.32809I	4.95788 + 5.88075I	-0.13221 - 5.80716I
b = -0.956631 - 0.862062I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.154040 + 0.447461I		
a = -0.362840 - 0.500105I	4.63415 - 0.90682I	1.28962 - 4.52518I
b = -0.706629 - 0.294864I		
u = 1.154040 - 0.447461I		
a = -0.362840 + 0.500105I	4.63415 + 0.90682I	1.28962 + 4.52518I
b = -0.706629 + 0.294864I		
u = -1.280170 + 0.173459I		
a = -0.442367 - 0.893767I	2.71445 - 6.27245I	2.92402 + 8.05584I
b = 1.23555 - 1.29461I		
u = -1.280170 - 0.173459I		
a = -0.442367 + 0.893767I	2.71445 + 6.27245I	2.92402 - 8.05584I
b = 1.23555 + 1.29461I		
u = 0.637930 + 0.249825I		
a = -0.023201 - 1.259190I	-0.49072 + 2.75096I	2.90356 - 6.14599I
b = -0.400551 - 1.237650I		
u = 0.637930 - 0.249825I		
a = -0.023201 + 1.259190I	-0.49072 - 2.75096I	2.90356 + 6.14599I
b = -0.400551 + 1.237650I		
u = -0.430937 + 0.491432I		
a = -1.97377 - 0.90570I	-7.54393 + 1.02790I	-3.87032 - 0.83091I
b = 0.716053 + 0.206167I		
u = -0.430937 - 0.491432I		
a = -1.97377 + 0.90570I	-7.54393 - 1.02790I	-3.87032 + 0.83091I
b = 0.716053 - 0.206167I		
u = 1.361540 + 0.157735I		
a = -0.127050 + 0.265071I	3.28773 + 2.35398I	1.50757 - 4.79947I
b = 0.941423 + 0.657717I		
u = 1.361540 - 0.157735I		
a = -0.127050 - 0.265071I	3.28773 - 2.35398I	1.50757 + 4.79947I
b = 0.941423 - 0.657717I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.307310 + 0.445348I		
a = 0.501766 - 0.593735I	2.02704 + 2.55701I	-2.41189 - 10.60905I
b = -1.48600 - 0.92539I		
u = 1.307310 - 0.445348I		
a = 0.501766 + 0.593735I	2.02704 - 2.55701I	-2.41189 + 10.60905I
b = -1.48600 + 0.92539I		
u = -2.36076		
a = 0.160525	-3.11418	-34.3130
b = -0.206162		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{23} - 22u^{22} + \dots + 13u - 1)(u^{74} + 83u^{73} + \dots - 742961u + 32761) $
c_2	$(u^{23} - 11u^{21} + \dots + 3u - 1)(u^{74} + u^{73} + \dots - 1071u + 181)$
c_3	$(u^{23} - 5u^{21} + \dots - u + 1)(u^{74} + 5u^{73} + \dots + 35u + 67)$
c_4	$ (u^{23} + u^{22} + \dots + 6u + 7)(u^{74} - 23u^{72} + \dots - 1348u + 59) $
c_5	$(u^{23} + u^{22} + \dots - 214u - 19)$ $\cdot (u^{74} + 12u^{73} + \dots + 241794036u + 20549479)$
c_6	$(u^{23} + u^{22} + \dots - 2u + 1)(u^{74} + 9u^{72} + \dots + 14u + 1)$
c_7	$(u^{23} - 11u^{21} + \dots + 3u + 1)(u^{74} + u^{73} + \dots - 1071u + 181)$
c_8	$(u^{23} - 2u^{21} + \dots + 3u - 1)(u^{74} - 3u^{73} + \dots + 9u - 1)$
c_9	$(u^{23} - 4u^{21} + \dots - 130u + 77)(u^{74} - u^{73} + \dots + 5432040u - 294541)$
c_{10}	$(u^{23} - u^{22} + \dots - 2u - 1)(u^{74} + 9u^{72} + \dots + 14u + 1)$
c_{11}	$(u^{23} + 4u^{21} + \dots + 2u - 1)(u^{74} - u^{73} + \dots + 26u - 1)$
c_{12}	$(u^{23} - u^{22} + \dots + 6u - 7)(u^{74} - 23u^{72} + \dots - 1348u + 59)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{23} - 30y^{22} + \dots - 39y - 1)$ $\cdot (y^{74} - 171y^{73} + \dots - 248386801315y + 1073283121)$
c_2, c_7	$(y^{23} - 22y^{22} + \dots + 13y - 1)(y^{74} - 83y^{73} + \dots + 742961y + 32761)$
c_3	$(y^{23} - 10y^{22} + \dots + 11y - 1)(y^{74} - 23y^{73} + \dots - 170601y + 4489)$
c_4, c_{12}	$(y^{23} - 25y^{22} + \dots + 414y - 49)(y^{74} - 46y^{73} + \dots - 867912y + 3481)$
c_5	$(y^{23} + 9y^{22} + \dots - 7860y - 361)$ $\cdot (y^{74} + 72y^{73} + \dots + 4872087324166162y + 422281087171441)$
c_6,c_{10}	$(y^{23} + 15y^{22} + \dots - 22y - 1)(y^{74} + 18y^{73} + \dots - 460y + 1)$
<i>c</i> ₈	$(y^{23} - 4y^{22} + \dots + 31y - 1)(y^{74} - 9y^{73} + \dots - 129y + 1)$
<i>c</i> 9	$(y^{23} - 8y^{22} + \dots + 27526y - 5929)$ $\cdot (y^{74} - 41y^{73} + \dots - 4467923151064y + 86754400681)$
c_{11}	$(y^{23} + 8y^{22} + \dots - 6y - 1)(y^{74} + 7y^{73} + \dots - 144y + 1)$