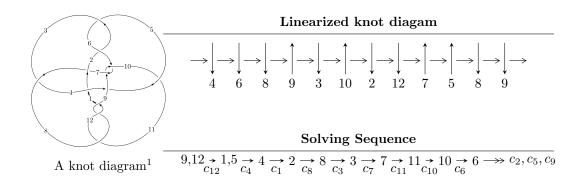
$12n_{0755} \ (K12n_{0755})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.18568 \times 10^{223} u^{81} + 7.43164 \times 10^{223} u^{80} + \dots + 3.23988 \times 10^{222} b + 4.31116 \times 10^{223}, \\ &- 1.92883 \times 10^{223} u^{81} - 1.27832 \times 10^{224} u^{80} + \dots + 3.23988 \times 10^{222} a - 1.11257 \times 10^{224}, \\ &u^{82} + 6 u^{81} + \dots - 11 u - 3 \rangle \\ I_2^u &= \langle -1890866592561 u^{22} + 2410031480209 u^{21} + \dots + 3200805062239 b + 12377780689946, \\ &- 7028112561663 u^{22} + 3451841046935 u^{21} + \dots + 3200805062239 a + 16799928060287, \\ &u^{23} - u^{22} + \dots - 3 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 105 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.
$$I_1^u = \langle 1.19 \times 10^{223} u^{81} + 7.43 \times 10^{223} u^{80} + \dots + 3.24 \times 10^{222} b + 4.31 \times 10^{223}, \ -1.93 \times 10^{223} u^{81} - 1.28 \times 10^{224} u^{80} + \dots + 3.24 \times 10^{222} a - 1.11 \times 10^{224}, \ u^{82} + 6 u^{81} + \dots - 11 u - 3 \rangle$$

(i) Arc colorings

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

$$a_{12} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 5.95340u^{81} + 39.4558u^{80} + \dots + 211.539u + 34.3399 \\ -3.65962u^{81} - 22.9380u^{80} + \dots - 108.880u - 13.3065 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 5.95340u^{81} + 39.4558u^{80} + \dots + 211.539u + 34.3399 \\ -2.25036u^{81} - 13.4360u^{80} + \dots + 49.9298u - 2.10025 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 2.45651u^{81} + 13.4972u^{80} + \dots + 8.18878u - 15.0013 \\ 3.58310u^{81} + 22.9490u^{80} + \dots + 93.7957u + 10.9838 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 4.36051u^{81} + 28.9039u^{80} + \dots + 146.566u + 23.3322 \\ -3.84325u^{81} - 23.9879u^{80} + \dots - 114.903u - 13.1080 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.731709u^{81} + 7.25277u^{80} + \dots + 134.322u + 45.5660 \\ -3.38808u^{81} - 21.7865u^{80} + \dots - 116.411u - 20.2879 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{2} + 1 \\ -u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.23820u^{81} + 5.64993u^{80} + \dots - 58.9501u - 27.1169 \\ 2.72175u^{81} + 17.1903u^{80} + \dots + 62.3171u + 5.29688 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1.96680u^{81} + 15.0496u^{80} + \dots + 138.404u + 35.1527 \\ -4.97606u^{81} - 31.6255u^{80} + \dots - 132.203u - 16.3332 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$-4.04743u^{81} - 27.0123u^{80} + \cdots - 215.823u - 51.0412$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{82} - 4u^{81} + \dots - 14492u + 15032$
c_{2}, c_{5}	$u^{82} - 2u^{81} + \dots + 386u - 21$
<i>c</i> ₃	$u^{82} - 2u^{81} + \dots - 9468926u - 944291$
c_4	$u^{82} + u^{81} + \dots + 12069u + 3617$
c_{6}, c_{9}	$u^{82} + u^{81} + \dots + 403u + 61$
C ₇	$u^{82} + 2u^{81} + \dots + 28u - 151$
c_8, c_{11}, c_{12}	$u^{82} + 6u^{81} + \dots - 11u - 3$
c_{10}	$u^{82} - u^{81} + \dots - 2699225u + 632501$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{82} + 70y^{81} + \dots + 3143561008y + 225961024$
c_2, c_5	$y^{82} + 52y^{81} + \dots - 12412y + 441$
c_3	$y^{82} + 48y^{81} + \dots - 10989606497604y + 891685492681$
c_4	$y^{82} - 71y^{81} + \dots - 240578075y + 13082689$
c_{6}, c_{9}	$y^{82} + 47y^{81} + \dots + 37305y + 3721$
	$y^{82} + 4y^{81} + \dots - 246310y + 22801$
c_8, c_{11}, c_{12}	$y^{82} - 18y^{81} + \dots - 397y + 9$
c_{10}	$y^{82} - 45y^{81} + \dots - 21983555058121y + 400057515001$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.806236 + 0.447979I $a = 0.116844 + 0.907734I$ $b = 0.313050 + 0.872682I$	-0.042747 + 1.373590I	0
u = -0.806236 - 0.447979I $a = 0.116844 - 0.907734I$ $b = 0.313050 - 0.872682I$	-0.042747 - 1.373590I	0
u = 0.835911 + 0.366396I $a = -0.895782 - 0.543357I$ $b = 0.686491 + 0.523534I$	1.47647 - 3.78347I	0
u = 0.835911 - 0.366396I $a = -0.895782 + 0.543357I$ $b = 0.686491 - 0.523534I$	1.47647 + 3.78347I	0
u = -0.701050 + 0.577627I $a = -0.094098 + 0.689287I$ $b = 0.443176 + 0.530379I$	-0.048198 + 1.306660I	0
u = -0.701050 - 0.577627I $a = -0.094098 - 0.689287I$ $b = 0.443176 - 0.530379I$	-0.048198 - 1.306660I	0
u = -0.874548 + 0.018157I $a = -1.53808 + 0.49342I$ $b = 1.016920 - 0.505156I$	-1.58786 + 5.67587I	-9.37818 - 5.48357I
u = -0.874548 - 0.018157I $a = -1.53808 - 0.49342I$ $b = 1.016920 + 0.505156I$	-1.58786 - 5.67587I	-9.37818 + 5.48357I
u = -1.15383 $a = -0.365134$ $b = -0.413477$	-2.52087	0
u = -0.750355 + 0.898180I $a = -0.25763 - 1.49046I$ $b = 0.73558 - 1.48679I$	7.24531 + 4.47737I	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.750355 - 0.898180I		
a = -0.25763 + 1.49046I	7.24531 - 4.47737I	0
b = 0.73558 + 1.48679I		
u = -0.425248 + 1.099560I		
a = 0.45745 + 1.56142I	3.38750 + 5.56328I	0
b = -0.381257 + 0.936714I		
u = -0.425248 - 1.099560I		
a = 0.45745 - 1.56142I	3.38750 - 5.56328I	0
b = -0.381257 - 0.936714I		
u = -0.821348 + 0.914226I		
a = -0.931141 - 0.836821I	2.05800 - 4.23861I	0
b = -0.24212 - 1.51037I		
u = -0.821348 - 0.914226I		
a = -0.931141 + 0.836821I	2.05800 + 4.23861I	0
b = -0.24212 + 1.51037I		
u = 0.822864 + 0.959472I		
a = -0.58005 + 1.29619I	7.49350 - 0.72833I	0
b = 0.60803 + 1.79418I		
u = 0.822864 - 0.959472I		
a = -0.58005 - 1.29619I	7.49350 + 0.72833I	0
b = 0.60803 - 1.79418I		
u = -0.673993 + 0.279521I		
a = -0.540764 + 0.727882I	-3.58880 + 2.02013I	-13.3165 - 8.2924I
b = -1.64438 + 0.06585I		
u = -0.673993 - 0.279521I		
a = -0.540764 - 0.727882I	-3.58880 - 2.02013I	-13.3165 + 8.2924I
b = -1.64438 - 0.06585I		
u = 0.883514 + 0.916466I		
a = -0.822379 + 0.907210I	4.92220 - 0.58301I	0
b = 0.16986 + 1.49068I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.883514 - 0.916466I		
a = -0.822379 - 0.907210I	4.92220 + 0.58301I	0
b = 0.16986 - 1.49068I		
u = -0.631826 + 0.348866I		
a = 0.61391 + 2.12275I	-3.40457 + 0.57973I	-9.43437 - 4.19864I
b = -1.108410 + 0.201294I		
u = -0.631826 - 0.348866I		
a = 0.61391 - 2.12275I	-3.40457 - 0.57973I	-9.43437 + 4.19864I
b = -1.108410 - 0.201294I		
u = 0.712432 + 0.084214I		
a = 0.58489 - 1.49460I	-1.50757 - 6.70450I	-11.21324 + 6.26401I
b = 0.40860 - 1.43638I		
u = 0.712432 - 0.084214I		
a = 0.58489 + 1.49460I	-1.50757 + 6.70450I	-11.21324 - 6.26401I
b = 0.40860 + 1.43638I		
u = -0.450661 + 0.549059I		
a = 0.283735 - 0.371733I	0.42096 + 8.02120I	-2.11051 - 11.91858I
b = 1.99582 + 0.12483I		
u = -0.450661 - 0.549059I		
a = 0.283735 + 0.371733I	0.42096 - 8.02120I	-2.11051 + 11.91858I
b = 1.99582 - 0.12483I		
u = -0.974900 + 0.848966I		
a = -0.773538 - 0.899541I	0.47523 + 4.56353I	0
b = 0.564453 - 1.073860I		
u = -0.974900 - 0.848966I		
a = -0.773538 + 0.899541I	0.47523 - 4.56353I	0
b = 0.564453 + 1.073860I		
u = -0.950851 + 0.883034I		
a = 0.330778 + 0.966106I	0.53361 + 1.91658I	0
b = -0.132030 + 1.199490I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.950851 - 0.883034I		
a = 0.330778 - 0.966106I	0.53361 - 1.91658I	0
b = -0.132030 - 1.199490I		
u = -0.065661 + 0.689575I		
a = 0.188975 - 0.904470I	0.90992 + 2.47162I	-2.89492 - 3.06151I
b = -0.618127 + 0.219610I		
u = -0.065661 - 0.689575I		
a = 0.188975 + 0.904470I	0.90992 - 2.47162I	-2.89492 + 3.06151I
b = -0.618127 - 0.219610I		
u = -0.582300 + 1.190720I		
a = -0.159473 - 0.797913I	6.45996 + 1.18643I	0
b = 0.03486 - 1.72869I		
u = -0.582300 - 1.190720I		
a = -0.159473 + 0.797913I	6.45996 - 1.18643I	0
b = 0.03486 + 1.72869I		
u = -1.098680 + 0.754147I		
a = 1.002280 + 0.473388I	6.12437 + 1.73968I	0
b = 0.219617 + 1.329070I		
u = -1.098680 - 0.754147I		
a = 1.002280 - 0.473388I	6.12437 - 1.73968I	0
b = 0.219617 - 1.329070I		
u = -0.260067 + 0.609056I		
a = 1.90359 - 0.34249I	3.81108 + 2.73141I	4.36589 - 2.14562I
b = -0.049741 - 0.351548I		
u = -0.260067 - 0.609056I		
a = 1.90359 + 0.34249I	3.81108 - 2.73141I	4.36589 + 2.14562I
b = -0.049741 + 0.351548I		
u = -1.018490 + 0.869250I		
a = 0.60257 + 1.28317I	1.48594 + 10.83750I	0
b = -0.78229 + 1.66142I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.018490 - 0.869250I		
a = 0.60257 - 1.28317I	1.48594 - 10.83750I	0
b = -0.78229 - 1.66142I		
u = 1.005000 + 0.889070I		
a = 0.603105 - 1.085290I	4.55738 - 6.10859I	0
b = -0.46354 - 1.66659I		
u = 1.005000 - 0.889070I		
a = 0.603105 + 1.085290I	4.55738 + 6.10859I	0
b = -0.46354 + 1.66659I		
u = 0.520783 + 0.400279I		
a = -0.419662 + 0.443731I	2.58165 - 3.80058I	2.24184 + 7.84876I
b = 1.48234 + 0.41015I		
u = 0.520783 - 0.400279I		
a = -0.419662 - 0.443731I	2.58165 + 3.80058I	2.24184 - 7.84876I
b = 1.48234 - 0.41015I		
u = 0.626125 + 0.145468I		
a = -0.18087 - 2.79944I	-4.14051 - 1.50707I	-13.3689 + 5.4539I
b = -0.587182 + 0.101724I		
u = 0.626125 - 0.145468I		
a = -0.18087 + 2.79944I	-4.14051 + 1.50707I	-13.3689 - 5.4539I
b = -0.587182 - 0.101724I		
u = 1.063340 + 0.849536I		
a = 0.956780 - 0.757979I	6.72056 - 5.96162I	0
b = -0.03841 - 1.76406I		
u = 1.063340 - 0.849536I		
a = 0.956780 + 0.757979I	6.72056 + 5.96162I	0
b = -0.03841 + 1.76406I		
u = 0.476810 + 0.402159I		
a = 2.10026 + 2.83473I	-0.29800 - 7.98807I	-3.3717 + 15.3963I
b = 0.284676 + 0.060377I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.476810 - 0.402159I		
a = 2.10026 - 2.83473I	-0.29800 + 7.98807I	-3.3717 - 15.3963I
b = 0.284676 - 0.060377I		
u = -0.387572 + 0.483892I		
a = -0.506786 + 0.595374I	-0.209152 + 1.137760I	-2.77451 - 5.70461I
b = 0.161400 + 0.343252I		
u = -0.387572 - 0.483892I		
a = -0.506786 - 0.595374I	-0.209152 - 1.137760I	-2.77451 + 5.70461I
b = 0.161400 - 0.343252I		
u = 0.557426 + 0.231728I		
a = -0.33867 - 1.76399I	-3.82873 - 0.00668I	-16.1459 + 7.0292I
b = -1.10016 - 1.23923I		
u = 0.557426 - 0.231728I		
a = -0.33867 + 1.76399I	-3.82873 + 0.00668I	-16.1459 - 7.0292I
b = -1.10016 + 1.23923I		
u = 1.409430 + 0.115816I		
a = -0.164334 + 0.187390I	-6.54986 - 3.23861I	0
b = -0.135012 - 0.469782I		
u = 1.409430 - 0.115816I		
a = -0.164334 - 0.187390I	-6.54986 + 3.23861I	0
b = -0.135012 + 0.469782I		
u = 0.84939 + 1.16040I		
a = 0.631650 - 0.921823I	9.67520 + 3.07500I	0
b = 0.03685 - 1.45118I		
u = 0.84939 - 1.16040I		
a = 0.631650 + 0.921823I	9.67520 - 3.07500I	0
b = 0.03685 + 1.45118I		
u = -0.98461 + 1.06132I		
a = -0.518913 - 1.125470I	0.93021 + 4.88868I	0
b = 0.359482 - 1.003890I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.98461 - 1.06132I		
a = -0.518913 + 1.125470I	0.93021 - 4.88868I	0
b = 0.359482 + 1.003890I		
u = -0.86125 + 1.16514I		
a = 0.705142 + 0.791235I	6.48875 - 9.64645I	0
b = 0.19060 + 1.59932I		
u = -0.86125 - 1.16514I		
a = 0.705142 - 0.791235I	6.48875 + 9.64645I	0
b = 0.19060 - 1.59932I		
u = 0.82211 + 1.22177I		
a = -0.397179 + 0.816867I	6.25873 - 3.82475I	0
b = 0.40067 + 1.95196I		
u = 0.82211 - 1.22177I		
a = -0.397179 - 0.816867I	6.25873 + 3.82475I	0
b = 0.40067 - 1.95196I		
u = 0.510704 + 0.080688I		
a = -1.91916 + 0.40206I	2.50196 - 2.66858I	-1.26207 + 3.93369I
b = 0.714917 + 0.882843I		
u = 0.510704 - 0.080688I		
a = -1.91916 - 0.40206I	2.50196 + 2.66858I	-1.26207 - 3.93369I
b = 0.714917 - 0.882843I		
u = -1.13264 + 0.96131I		
a = -0.573896 - 1.114140I	5.5638 + 17.2835I	0
b = 0.77313 - 1.68807I		
u = -1.13264 - 0.96131I		
a = -0.573896 + 1.114140I	5.5638 - 17.2835I	0
b = 0.77313 + 1.68807I		
u = 1.13751 + 0.96101I		
a = -0.573662 + 1.059270I	8.71424 - 10.69960I	0
b = 0.54430 + 1.58374I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.13751 - 0.96101I $a = -0.573662 - 1.059270I$ $b = 0.54430 - 1.58374I$	8.71424 + 10.69960I	0
u = -0.34430 + 0.24377I $u = -1.48390 + 0.24377I$ $a = -0.031323 - 0.358276I$ $b = -0.235266 - 0.710195I$	-1.098920 + 0.366529I	0
u = -1.48390 - 0.24377I $a = -0.031323 + 0.358276I$ $b = -0.235266 + 0.710195I$	-1.098920 - 0.366529I	0
u = 0.492926 $a = 1.00800$ $b = -1.10716$	-1.69272	-3.43940
u = 1.11375 + 1.03431I $a = 0.577088 - 0.734092I$ $b = -0.56145 - 1.82423I$	5.35450 - 4.18150I	0
u = 1.11375 - 1.03431I $a = 0.577088 + 0.734092I$ $b = -0.56145 + 1.82423I$	5.35450 + 4.18150I	0
u = 1.54442 + 0.24643I $a = 0.217680 + 0.007983I$ $b = -0.345847 + 0.430990I$	-4.74804 - 6.73053I	0
u = 1.54442 - 0.24643I $a = 0.217680 - 0.007983I$ $b = -0.345847 - 0.430990I$	-4.74804 + 6.73053I	0
u = -1.28649 + 0.97876I $a = 0.566181 + 0.565715I$ $b = -0.75720 + 1.37954I$	4.36428 + 6.64097I	0
u = -1.28649 - 0.97876I $a = 0.566181 - 0.565715I$ $b = -0.75720 - 1.37954I$	4.36428 - 6.64097I	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.338398 + 0.065785I		
a = -3.21361 + 0.05803I	0.77876 + 2.17059I	-3.05306 - 2.50525I
b = -0.202094 + 0.875685I		
u = -0.338398 - 0.065785I		
a = -3.21361 - 0.05803I	0.77876 - 2.17059I	-3.05306 + 2.50525I
b = -0.202094 - 0.875685I		

$$II. \\ I_2^u = \langle -1.89 \times 10^{12} u^{22} + 2.41 \times 10^{12} u^{21} + \dots + 3.20 \times 10^{12} b + 1.24 \times 10^{13}, \ -7.03 \times 10^{12} u^{22} + 3.45 \times 10^{12} u^{21} + \dots + 3.20 \times 10^{12} a + 1.68 \times 10^{13}, \ u^{23} - u^{22} + \dots - 3u + 1 \rangle$$

(i) Arc colorings

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

$$a_{12} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 2.19573u^{22} - 1.07843u^{21} + \dots + 7.61282u - 5.24866 \\ 0.590747u^{22} - 0.752945u^{21} + \dots + 2.18120u - 3.86708 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 2.19573u^{22} - 1.07843u^{21} + \dots + 7.61282u - 5.24866 \\ 0.977901u^{22} - 0.852039u^{21} + \dots + 3.33738u - 4.98439 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -4.02910u^{22} + 1.11016u^{21} + \dots - 18.5602u + 6.75980 \\ -3.12743u^{22} + 1.87545u^{21} + \dots - 8.95195u + 6.59751 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1.84688u^{22} - 1.23642u^{21} + \dots + 5.85633u - 4.25721 \\ 0.629049u^{22} - 1.01003u^{21} + \dots + 1.58088u - 3.99294 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 4.27517u^{22} - 1.90167u^{21} + \dots + 10.9963u - 7.43747 \\ 0.325782u^{22} + 0.886134u^{21} + \dots + 7.99290u - 4.83426 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{2} + 1 \\ -u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -2.56863u^{22} + 0.695455u^{21} + \dots - 13.1510u + 1.06396 \\ -2.57971u^{22} + 1.28620u^{21} + \dots - 9.48726u + 5.94213 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.598057u^{22} + 1.30233u^{21} + \dots + 4.71204u + 5.08438 \\ 1.69862u^{22} + 0.393112u^{21} + \dots + 15.8887u - 6.69634 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$=\frac{\frac{36632544074525}{3200805062239}u^{22}-\frac{23085135423462}{3200805062239}u^{21}+\cdots+\frac{89601441698510}{3200805062239}u-\frac{81515705395485}{3200805062239}u^{21}+\cdots+\frac{89601441698510}{3200805062239}u-\frac{81515705395485}{3200805062239}u^{21}+\frac{1}{320080506239}u^{21}+\frac{1}{320080506239}u^{21}+\frac{1}{320080506239}u^{21}+\frac{1}{320080506239}u^{21}+\frac{1}{320080506239}u^{21}+\frac{1}{320080506239}u^{21}+\frac{1}{320080506239}u^{21}+$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - u^{22} + \dots + 4u^2 - 1$
c_2	$u^{23} - 9u^{22} + \dots + 88u - 11$
<i>c</i> ₃	$u^{23} - u^{22} + \dots - u^2 - 1$
c_4	$u^{23} - 3u^{21} + \dots + 5u + 1$
<i>C</i> ₅	$u^{23} + 9u^{22} + \dots + 88u + 11$
<i>C</i> ₆	$u^{23} + 8u^{21} + \dots + u - 1$
C ₇	$u^{23} - u^{22} + \dots - 4u + 1$
<i>c</i> ₈	$u^{23} + u^{22} + \dots - 3u - 1$
<i>C</i> 9	$u^{23} + 8u^{21} + \dots + u + 1$
c_{10}	$u^{23} - 8u^{21} + \dots + 13u - 1$
c_{11}, c_{12}	$u^{23} - u^{22} + \dots - 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} + 7y^{22} + \dots + 8y - 1$
c_2, c_5	$y^{23} + 13y^{22} + \dots - 418y - 121$
<i>c</i> ₃	$y^{23} + 9y^{22} + \dots - 2y - 1$
c_4	$y^{23} - 6y^{22} + \dots + 17y - 1$
c_{6}, c_{9}	$y^{23} + 16y^{22} + \dots + y - 1$
C ₇	$y^{23} - 7y^{22} + \dots - 8y - 1$
c_8, c_{11}, c_{12}	$y^{23} - 13y^{22} + \dots + 19y - 1$
c_{10}	$y^{23} - 16y^{22} + \dots + 67y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.04348		
a = 0.186091	-2.87298	-18.0690
b = 0.753788		
u = -0.664063 + 0.943098I		
a = 0.685970 + 0.966250I	3.29876 + 4.65028I	-0.98001 - 3.86096I
b = -0.569285 + 0.905311I		
u = -0.664063 - 0.943098I		
a = 0.685970 - 0.966250I	3.29876 - 4.65028I	-0.98001 + 3.86096I
b = -0.569285 - 0.905311I		
u = -0.651688 + 0.414639I		
a = 0.336676 - 1.276670I	-2.78319 + 1.65732I	-2.40871 - 5.71074I
b = 1.189520 - 0.108095I		
u = -0.651688 - 0.414639I		
a = 0.336676 + 1.276670I	-2.78319 - 1.65732I	-2.40871 + 5.71074I
b = 1.189520 + 0.108095I		
u = -0.681262 + 0.184332I		
a = 0.569301 - 0.688734I	2.16743 + 3.23271I	-3.58442 + 1.29756I
b = -1.062700 + 0.406261I		
u = -0.681262 - 0.184332I		
a = 0.569301 + 0.688734I	2.16743 - 3.23271I	-3.58442 - 1.29756I
b = -1.062700 - 0.406261I		
u = 0.694058 + 1.101970I		
a = 0.255791 - 1.003080I	6.42155 - 2.33889I	-0.62038 + 2.50500I
b = -0.45605 - 1.81744I		
u = 0.694058 - 1.101970I		
a = 0.255791 + 1.003080I	6.42155 + 2.33889I	-0.62038 - 2.50500I
b = -0.45605 + 1.81744I		
u = -0.941533 + 0.914490I		
a = -0.826024 - 1.090000I	1.36751 + 4.63600I	3.14920 - 3.22216I
b = 0.417785 - 0.988387I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.941533 - 0.914490I		
a = -0.826024 + 1.090000I	1.36751 - 4.63600I	3.14920 + 3.22216I
b = 0.417785 + 0.988387I		
u = 1.313860 + 0.211685I		
a = 0.251038 + 0.443133I	-6.88091 - 2.68742I	-11.27297 - 1.77001I
b = 0.427917 - 0.312916I		
u = 1.313860 - 0.211685I		
a = 0.251038 - 0.443133I	-6.88091 + 2.68742I	-11.27297 + 1.77001I
b = 0.427917 + 0.312916I		
u = -1.44708 + 0.16614I		
a = 0.224237 + 0.573848I	-1.37900 + 0.85896I	-12.3793 - 7.8029I
b = 0.090985 + 0.602410I		
u = -1.44708 - 0.16614I		
a = 0.224237 - 0.573848I	-1.37900 - 0.85896I	-12.3793 + 7.8029I
b = 0.090985 - 0.602410I		
u = 1.45654 + 0.11386I		
a = 0.228446 - 0.393877I	-5.18757 - 7.22928I	-10.56655 + 8.90804I
b = -0.459533 - 0.102140I		
u = 1.45654 - 0.11386I		
a = 0.228446 + 0.393877I	-5.18757 + 7.22928I	-10.56655 - 8.90804I
b = -0.459533 + 0.102140I		
u = 1.12449 + 0.97445I		
a = -0.667965 + 0.669158I	5.14593 - 5.17174I	-3.71472 + 6.91746I
b = 0.42725 + 1.78877I		
u = 1.12449 - 0.97445I		
a = -0.667965 - 0.669158I	5.14593 + 5.17174I	-3.71472 - 6.91746I
b = 0.42725 - 1.78877I		
u = 0.414919 + 0.284656I		
a = 0.70756 + 2.63982I	-3.50970 + 0.39783I	-5.42174 - 5.80351I
b = 1.083190 + 0.759470I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.414919 - 0.284656I		
a = 0.70756 - 2.63982I	-3.50970 - 0.39783I	-5.42174 + 5.80351I
b = 1.083190 - 0.759470I		
u = 0.403492 + 0.147341I		
a = 1.14193 + 2.95973I	-0.51419 - 7.27979I	-6.66615 + 5.52222I
b = -0.965980 + 0.449954I		
u = 0.403492 - 0.147341I		
a = 1.14193 - 2.95973I	-0.51419 + 7.27979I	-6.66615 - 5.52222I
b = -0.965980 - 0.449954I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{23} - u^{22} + \dots + 4u^2 - 1)(u^{82} - 4u^{81} + \dots - 14492u + 15032) $
c_2	$(u^{23} - 9u^{22} + \dots + 88u - 11)(u^{82} - 2u^{81} + \dots + 386u - 21)$
<i>c</i> ₃	$(u^{23} - u^{22} + \dots - u^2 - 1)(u^{82} - 2u^{81} + \dots - 9468926u - 944291)$
C ₄	$(u^{23} - 3u^{21} + \dots + 5u + 1)(u^{82} + u^{81} + \dots + 12069u + 3617)$
<i>C</i> ₅	$(u^{23} + 9u^{22} + \dots + 88u + 11)(u^{82} - 2u^{81} + \dots + 386u - 21)$
<i>C</i> ₆	$(u^{23} + 8u^{21} + \dots + u - 1)(u^{82} + u^{81} + \dots + 403u + 61)$
	$(u^{23} - u^{22} + \dots - 4u + 1)(u^{82} + 2u^{81} + \dots + 28u - 151)$
<i>C</i> ₈	$(u^{23} + u^{22} + \dots - 3u - 1)(u^{82} + 6u^{81} + \dots - 11u - 3)$
<i>c</i> ₉	$(u^{23} + 8u^{21} + \dots + u + 1)(u^{82} + u^{81} + \dots + 403u + 61)$
c_{10}	$(u^{23} - 8u^{21} + \dots + 13u - 1)(u^{82} - u^{81} + \dots - 2699225u + 632501)$
c_{11}, c_{12}	$(u^{23} - u^{22} + \dots - 3u + 1)(u^{82} + 6u^{81} + \dots - 11u - 3)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{23} + 7y^{22} + \dots + 8y - 1)$ $(y^{82} + 70y^{81} + \dots + 3143561008y + 225961024)$
c_2, c_5	$(y^{23} + 13y^{22} + \dots - 418y - 121)(y^{82} + 52y^{81} + \dots - 12412y + 441)$
c_3	$(y^{23} + 9y^{22} + \dots - 2y - 1)$ $\cdot (y^{82} + 48y^{81} + \dots - 10989606497604y + 891685492681)$
c_4	$(y^{23} - 6y^{22} + \dots + 17y - 1)$ $\cdot (y^{82} - 71y^{81} + \dots - 240578075y + 13082689)$
c_6, c_9	$(y^{23} + 16y^{22} + \dots + y - 1)(y^{82} + 47y^{81} + \dots + 37305y + 3721)$
C ₇	$(y^{23} - 7y^{22} + \dots - 8y - 1)(y^{82} + 4y^{81} + \dots - 246310y + 22801)$
c_8, c_{11}, c_{12}	$(y^{23} - 13y^{22} + \dots + 19y - 1)(y^{82} - 18y^{81} + \dots - 397y + 9)$
c_{10}	$(y^{23} - 16y^{22} + \dots + 67y - 1)$ $\cdot (y^{82} - 45y^{81} + \dots - 21983555058121y + 400057515001)$