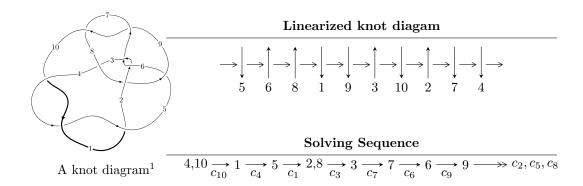
$10_{94} \ (K10a_{91})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -9.74096 \times 10^{15} u^{34} + 8.22209 \times 10^{17} u^{33} + \dots + 6.62181 \times 10^{18} b + 7.90428 \times 10^{18}, \\ -4.09728 \times 10^{18} u^{34} - 3.86755 \times 10^{18} u^{33} + \dots + 6.62181 \times 10^{18} a - 2.70054 \times 10^{18}, \ u^{35} + 3u^{34} + \dots + 3u^{2} u^{24} + 3u^{24} + \dots + 3u^{24} u^{24} + 3u^{24} u^{24} + \dots + 3u^{24} u^{24} u^{24} u^{24} + \dots + 3u^{24} u^{24} u^$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 35 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.
$$I_1^u = \langle -9.74 \times 10^{15} u^{34} + 8.22 \times 10^{17} u^{33} + \dots + 6.62 \times 10^{18} b + 7.90 \times 10^{18}, \ -4.10 \times 10^{18} u^{34} - 3.87 \times 10^{18} u^{33} + \dots + 6.62 \times 10^{18} a - 2.70 \times 10^{18}, \ u^{35} + 3 u^{34} + \dots + 3 u^2 - 1 \rangle$$

(i) Arc colorings

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

$$a_{10} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.618755u^{34} + 0.584062u^{33} + \cdots - 9.67919u + 0.407825 \\ 0.00147104u^{34} - 0.124167u^{33} + \cdots + 0.203436u - 1.19367 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1.09583u^{34} + 3.07364u^{33} + \cdots - 2.42964u - 5.58169 \\ -1.19271u^{34} - 2.87858u^{33} + \cdots + 1.54761u + 0.464135 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.620226u^{34} + 0.459895u^{33} + \cdots + 1.54761u + 0.464135 \\ 0.00147104u^{34} - 0.124167u^{33} + \cdots + 0.203436u - 1.19367 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 2.14790u^{34} + 6.59302u^{33} + \cdots + 0.203436u - 1.19367 \\ -0.134603u^{34} - 0.623769u^{33} + \cdots + 1.93231u - 0.272284 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.561562u^{34} + 0.370987u^{33} + \cdots - 9.79383u + 0.358105 \\ 0.0974274u^{34} + 0.171295u^{33} + \cdots + 0.0892870u - 1.18951 \end{pmatrix}$$

(ii) Obstruction class = -1

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4, c_{10}	$u^{35} + 3u^{34} + \dots + 3u^2 - 1$
c_2,c_6	$u^{35} - u^{34} + \dots - 3u^2 + 1$
<i>c</i> 3	$u^{35} + 17u^{34} + \dots + 214u + 23$
<i>C</i> ₅	$u^{35} - 13u^{34} + \dots + 12u - 7$
c_7, c_9	$u^{35} - u^{34} + \dots - 2u + 1$
c ₈	$u^{35} - 3u^{34} + \dots + 4u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_{10}	$y^{35} - 37y^{34} + \dots + 6y - 1$
c_2, c_6	$y^{35} - 21y^{34} + \dots + 6y - 1$
<i>c</i> ₃	$y^{35} - 233y^{34} + \dots + 5914y - 529$
<i>C</i> 5	$y^{35} - 237y^{34} + \dots + 942y - 49$
c_7, c_9	$y^{35} - 25y^{34} + \dots - 70y - 1$
c ₈	$y^{35} + 3y^{34} + \dots + 34y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.638742 + 0.763228I		
a = -0.32878 - 1.37864I	-0.17363 - 9.53352I	-2.89594 + 8.02980I
b = 1.265670 + 0.500696I		
u = 0.638742 - 0.763228I		
a = -0.32878 + 1.37864I	-0.17363 + 9.53352I	-2.89594 - 8.02980I
b = 1.265670 - 0.500696I		
u = 0.421188 + 0.899484I		
a = -0.792986 - 0.007441I	0.51201 + 4.13357I	-2.56649 - 6.25203I
b = 1.102020 - 0.318172I		
u = 0.421188 - 0.899484I		
a = -0.792986 + 0.007441I	0.51201 - 4.13357I	-2.56649 + 6.25203I
b = 1.102020 + 0.318172I		
u = -0.708907 + 0.871150I		
a = -0.370730 + 0.784435I	-3.73588 + 3.17966I	-9.01884 - 7.80623I
b = 1.164500 - 0.178894I		
u = -0.708907 - 0.871150I		
a = -0.370730 - 0.784435I	-3.73588 - 3.17966I	-9.01884 + 7.80623I
b = 1.164500 + 0.178894I		
u = 0.555117 + 0.428217I		
a = 1.29244 - 0.80829I	2.98343 + 0.70642I	1.79862 + 1.96555I
b = 0.267299 + 0.532419I		
u = 0.555117 - 0.428217I		
a = 1.29244 + 0.80829I	2.98343 - 0.70642I	1.79862 - 1.96555I
b = 0.267299 - 0.532419I		
u = 0.420666 + 0.556962I		
a = -0.213994 + 1.367610I	3.42076 - 4.23935I	1.57284 + 6.50170I
b = 0.122551 - 0.993553I		
u = 0.420666 - 0.556962I		
a = -0.213994 - 1.367610I	3.42076 + 4.23935I	1.57284 - 6.50170I
b = 0.122551 + 0.993553I		

	Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u =	-1.369300 + 0.067601I		
a =	0.631419 - 0.279359I	-3.14805 + 0.11237I	-2.00000 + 0.I
b =	0.030418 + 0.167299I		
u =	-1.369300 - 0.067601I		
a =	0.631419 + 0.279359I	-3.14805 - 0.11237I	-2.00000 + 0.I
b =	0.030418 - 0.167299I		
$\overline{u} =$	= 1.42805		
a =	=-11.1085	-4.96247	155.290
b =	=-1.01279		
u =	-0.505143 + 0.260157I		
a =	0.63134 - 1.66041I	-1.17815 + 2.75086I	-5.83679 - 7.59594I
	-1.106350 + 0.599174I		
u =	-0.505143 - 0.260157I		
a =	0.63134 + 1.66041I	-1.17815 - 2.75086I	-5.83679 + 7.59594I
	-1.106350 - 0.599174I		
u =	1.46072 + 0.11973I		
a =	-0.027998 + 0.767434I	-5.91469 - 2.99202I	0
	-0.361779 - 0.871354I		
	1.46072 - 0.11973I		
a =	-0.027998 - 0.767434I	-5.91469 + 2.99202I	0
	-0.361779 + 0.871354I		
u =	-0.291602 + 0.421032I		
a =	0.608613 - 0.956903I	-0.134869 + 1.085580I	-2.08723 - 6.10429I
	-0.142845 + 0.366228I		
u =	-0.291602 - 0.421032I		
a =	0.608613 + 0.956903I	-0.134869 - 1.085580I	-2.08723 + 6.10429I
	-0.142845 - 0.366228I		
	-1.48666 + 0.16089I		
	-0.270075 - 0.598911I	-2.83088 + 6.77803I	0
b =	-0.023905 + 1.336550I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.48666 - 0.16089I		
a = -0.270075 + 0.598911I	-2.83088 - 6.77803I	0
b = -0.023905 - 1.336550I		
u = -1.50842 + 0.01996I		
a = -0.634805 - 0.360863I	-8.87322 + 0.26521I	0
b = -1.60295 + 0.26970I		
u = -1.50842 - 0.01996I		
a = -0.634805 + 0.360863I	-8.87322 - 0.26521I	0
b = -1.60295 - 0.26970I		
u = 1.51371 + 0.06175I		
a = -0.323814 + 0.778359I	-7.88737 - 3.84000I	0
b = -1.42288 - 0.85959I		
u = 1.51371 - 0.06175I		
a = -0.323814 - 0.778359I	-7.88737 + 3.84000I	0
b = -1.42288 + 0.85959I		
u = 0.458527 + 0.023050I		
a = -0.364039 + 0.257321I	-2.28660 - 0.00327I	-6.71199 - 0.85350I
b = -1.252630 - 0.041449I		
u = 0.458527 - 0.023050I		
a = -0.364039 - 0.257321I	-2.28660 + 0.00327I	-6.71199 + 0.85350I
b = -1.252630 + 0.041449I		
u = -1.57609 + 0.25528I		
a = 0.520584 + 1.107560I	-7.4557 + 13.3116I	0
b = 1.42500 - 0.57684I		
u = -1.57609 - 0.25528I		
a = 0.520584 - 1.107560I	-7.4557 - 13.3116I	0
b = 1.42500 + 0.57684I		
u = 1.59602 + 0.26769I		
a = 0.394220 - 0.908500I	-11.27950 - 7.30532I	0
b = 1.38166 + 0.35942I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.59602 - 0.26769I		
a = 0.394220 + 0.908500I	-11.27950 + 7.30532I	0
b = 1.38166 - 0.35942I		
u = -0.151482 + 0.347444I		
a = 5.01455 - 1.87194I	-0.118043 - 0.668153I	2.12828 - 10.66433I
b = -0.984898 - 0.180613I		
u = -0.151482 - 0.347444I		
a = 5.01455 + 1.87194I	-0.118043 + 0.668153I	2.12828 + 10.66433I
b = -0.984898 + 0.180613I		
u = -1.68110 + 0.33608I		
a = 0.288307 + 0.479751I	-6.16860 + 1.10468I	0
b = 1.145510 - 0.065819I		
u = -1.68110 - 0.33608I		
a = 0.288307 - 0.479751I	-6.16860 - 1.10468I	0
b = 1.145510 + 0.065819I		

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_4, c_{10}	$u^{35} + 3u^{34} + \dots + 3u^2 - 1$
c_2, c_6	$u^{35} - u^{34} + \dots - 3u^2 + 1$
c_3	$u^{35} + 17u^{34} + \dots + 214u + 23$
c_5	$u^{35} - 13u^{34} + \dots + 12u - 7$
c_7, c_9	$u^{35} - u^{34} + \dots - 2u + 1$
C ₈	$u^{35} - 3u^{34} + \dots + 4u - 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4, c_{10}	$y^{35} - 37y^{34} + \dots + 6y - 1$
c_2, c_6	$y^{35} - 21y^{34} + \dots + 6y - 1$
<i>c</i> ₃	$y^{35} - 233y^{34} + \dots + 5914y - 529$
<i>C</i> ₅	$y^{35} - 237y^{34} + \dots + 942y - 49$
c_{7}, c_{9}	$y^{35} - 25y^{34} + \dots - 70y - 1$
c ₈	$y^{35} + 3y^{34} + \dots + 34y - 1$