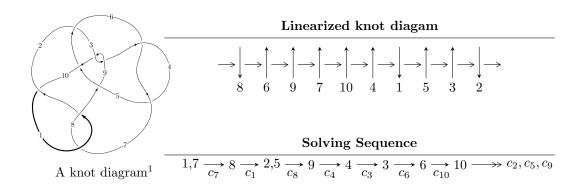
$10_{95} (K10a_{47})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 8.96446 \times 10^{23} u^{44} + 2.57403 \times 10^{24} u^{43} + \dots + 1.49180 \times 10^{24} b - 2.95907 \times 10^{24},$$

$$4.30182 \times 10^{23} u^{44} - 4.12569 \times 10^{23} u^{43} + \dots + 1.49180 \times 10^{24} a - 2.73959 \times 10^{24}, \ u^{45} + 3u^{44} + \dots + u - 1 \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 45 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.

$$I. \\ I_1^u = \langle 8.96 \times 10^{23} u^{44} + 2.57 \times 10^{24} u^{43} + \dots + 1.49 \times 10^{24} b - 2.96 \times 10^{24}, \ 4.30 \times 10^{23} u^{44} - 4.13 \times 10^{23} u^{43} + \dots + 1.49 \times 10^{24} a - 2.74 \times 10^{24}, \ u^{45} + 3u^{44} + \dots + u - 1 \rangle$$

(i) Arc colorings

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

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{5} = \begin{pmatrix} -0.288363u^{44} + 0.276557u^{43} + \dots + 0.412316u + 1.83643 \\ -0.600914u^{44} - 1.72545u^{43} + \dots - 2.12140u + 1.98355 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.0671751u^{44} + 1.09025u^{43} + \dots - 2.21453u - 0.832290 \\ -0.804689u^{44} - 0.830750u^{43} + \dots - 0.425124u - 0.467397 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.312551u^{44} + 2.00200u^{43} + \dots + 2.53371u - 0.147124 \\ -0.600914u^{44} - 1.72545u^{43} + \dots - 2.12140u + 1.98355 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.288365u^{44} - 1.82727u^{43} + \dots + 8.33577u - 2.61780 \\ -0.424947u^{44} - 1.44593u^{43} + \dots + 1.13180u + 1.08626 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.356125u^{44} + 0.136618u^{43} + \dots + 0.683378u + 1.78645 \\ -0.372015u^{44} - 1.13507u^{43} + \dots - 1.48899u + 1.65337 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^{3} \\ u^{5} - u^{3} + u \end{pmatrix}$$

(ii) Obstruction class = -1

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{45} + 3u^{44} + \dots + u - 1$
c_2	$u^{45} + 5u^{44} + \dots - 13u - 1$
c_3, c_9	$u^{45} + 3u^{44} + \dots + u - 1$
c_4, c_6	$u^{45} + u^{44} + \dots + u - 1$
C ₅	$u^{45} + u^{44} + \dots - 11u - 1$
<i>C</i> ₈	$u^{45} + 15u^{44} + \dots - 3u - 19$
c_{10}	$u^{45} + 17u^{44} + \dots + 7u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{45} - 17y^{44} + \dots + 7y - 1$
c_2	$y^{45} + 107y^{44} + \dots + 67y - 1$
c_3, c_9	$y^{45} + 27y^{44} + \dots + 7y - 1$
c_4, c_6	$y^{45} - 29y^{44} + \dots + 11y - 1$
	$y^{45} + 3y^{44} + \dots + 35y - 1$
c_8	$y^{45} - 109y^{44} + \dots - 4893y - 361$
c_{10}	$y^{45} + 23y^{44} + \dots - 9y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.748239 + 0.647910I		
a = 0.403124 - 0.160622I	2.77602 + 1.02408I	8.38347 - 2.46029I
b = 1.37017 + 0.68085I		
u = 0.748239 - 0.647910I		
a = 0.403124 + 0.160622I	2.77602 - 1.02408I	8.38347 + 2.46029I
b = 1.37017 - 0.68085I		
u = 0.890787 + 0.518116I		
a = 1.09640 - 9.24121I	-0.05995 - 2.03640I	72.2714 - 11.7565I
b = 0.973792 - 0.005327I		
u = 0.890787 - 0.518116I		
a = 1.09640 + 9.24121I	-0.05995 + 2.03640I	72.2714 + 11.7565I
b = 0.973792 + 0.005327I		
u = -0.820939 + 0.635302I		
a = -0.253305 + 0.931796I	3.59336 + 2.30367I	9.15329 - 4.83627I
b = 1.53924 - 0.11682I		
u = -0.820939 - 0.635302I		
a = -0.253305 - 0.931796I	3.59336 - 2.30367I	9.15329 + 4.83627I
b = 1.53924 + 0.11682I		
u = -0.361068 + 1.000170I		
a = 0.351371 - 0.166844I	1.45040 + 4.21015I	6.88936 - 10.02965I
b = -1.073530 - 0.231341I		
u = -0.361068 - 1.000170I		
a = 0.351371 + 0.166844I	1.45040 - 4.21015I	6.88936 + 10.02965I
b = -1.073530 + 0.231341I		
u = -0.557888 + 0.909903I		
a = 0.316144 + 0.172524I	2.54824 - 9.10382I	6.03739 + 5.00782I
b = -1.34079 + 0.52835I		
u = -0.557888 - 0.909903I		
a = 0.316144 - 0.172524I	2.54824 + 9.10382I	6.03739 - 5.00782I
b = -1.34079 - 0.52835I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.072010 + 0.068561I		
a = 0.19682 + 1.79320I	-6.58324 + 2.11321I	-3.96108 - 1.31750I
b = -0.418872 + 0.891403I		
u = 1.072010 - 0.068561I		
a = 0.19682 - 1.79320I	-6.58324 - 2.11321I	-3.96108 + 1.31750I
b = -0.418872 - 0.891403I		
u = -0.872155 + 0.629846I		
a = -0.47083 + 1.68692I	3.43558 + 2.64632I	8.92608 - 1.75211I
b = 1.44587 + 0.31074I		
u = -0.872155 - 0.629846I		
a = -0.47083 - 1.68692I	3.43558 - 2.64632I	8.92608 + 1.75211I
b = 1.44587 - 0.31074I		
u = 0.571052 + 0.957365I		
a = 0.327326 - 0.019797I	6.25575 + 2.94445I	10.14429 - 3.30426I
b = -1.263400 - 0.274130I		
u = 0.571052 - 0.957365I		
a = 0.327326 + 0.019797I	6.25575 - 2.94445I	10.14429 + 3.30426I
b = -1.263400 + 0.274130I		
u = -0.709910 + 0.510430I		
a = 1.252380 - 0.161269I	-1.41864 + 2.15221I	1.64608 - 3.55734I
b = 0.133311 + 0.176064I		
u = -0.709910 - 0.510430I		
a = 1.252380 + 0.161269I	-1.41864 - 2.15221I	1.64608 + 3.55734I
b = 0.133311 - 0.176064I		
u = 0.924885 + 0.643162I		
a = -0.39182 - 2.00941I	2.24019 - 6.06663I	6.70582 + 8.72697I
b = 1.26534 - 0.87677I		
u = 0.924885 - 0.643162I		
a = -0.39182 + 2.00941I	2.24019 + 6.06663I	6.70582 - 8.72697I
b = 1.26534 + 0.87677I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.534755 + 0.678754I		
a = 0.767210 - 0.462986I	-1.69173 - 3.44354I	3.21684 + 3.47170I
b = 0.035693 - 1.094520I		
u = -0.534755 - 0.678754I		
a = 0.767210 + 0.462986I	-1.69173 + 3.44354I	3.21684 - 3.47170I
b = 0.035693 + 1.094520I		
u = 0.998803 + 0.587519I		
a = -0.342999 - 1.152970I	0.23783 - 4.75380I	4.82148 + 5.65384I
b = 0.166118 - 0.793978I		
u = 0.998803 - 0.587519I		
a = -0.342999 + 1.152970I	0.23783 + 4.75380I	4.82148 - 5.65384I
b = 0.166118 + 0.793978I		
u = -1.104260 + 0.360208I		
a = -0.027368 - 0.429100I	-1.84860 + 1.33338I	-2.80190 - 1.06220I
b = -0.496724 - 0.062269I		
u = -1.104260 - 0.360208I		
a = -0.027368 + 0.429100I	-1.84860 - 1.33338I	-2.80190 + 1.06220I
b = -0.496724 + 0.062269I		
u = 0.619855 + 0.543779I		
a = 0.786545 + 0.529917I	1.389240 + 0.109846I	8.39253 - 0.28934I
b = 0.472137 + 0.557307I		
u = 0.619855 - 0.543779I		
a = 0.786545 - 0.529917I	1.389240 - 0.109846I	8.39253 + 0.28934I
b = 0.472137 - 0.557307I		
u = -1.030460 + 0.624781I		
a = -1.00464 + 1.07941I	-3.11090 + 8.51494I	1.12145 - 8.02650I
b = -0.116882 + 1.280150I		
u = -1.030460 - 0.624781I		
a = -1.00464 - 1.07941I	-3.11090 - 8.51494I	1.12145 + 8.02650I
b = -0.116882 - 1.280150I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.158790 + 0.358173I		
a = -0.174096 - 0.464304I	-1.84651 + 1.33386I	-3.76295 - 1.40019I
b = -0.614061 - 0.062005I		
u = -1.158790 - 0.358173I		
a = -0.174096 + 0.464304I	-1.84651 - 1.33386I	-3.76295 + 1.40019I
b = -0.614061 + 0.062005I		
u = 1.230990 + 0.092992I		
a = -0.98270 + 1.11992I	-4.42636 - 7.34032I	0. + 6.70183I
b = -1.097490 + 0.546794I		
u = 1.230990 - 0.092992I		
a = -0.98270 - 1.11992I	-4.42636 + 7.34032I	0 6.70183I
b = -1.097490 - 0.546794I		
u = -0.734453 + 0.170610I		
a = 2.20693 + 0.55929I	-1.43818 + 2.33862I	0.15315 - 3.89068I
b = 0.600244 + 0.443962I		
u = -0.734453 - 0.170610I		
a = 2.20693 - 0.55929I	-1.43818 - 2.33862I	0.15315 + 3.89068I
b = 0.600244 - 0.443962I		
u = -1.099700 + 0.703989I		
a = 0.29033 - 1.93516I	0.8834 + 15.0479I	0 8.99569I
b = -1.36790 - 0.61478I		
u = -1.099700 - 0.703989I		
a = 0.29033 + 1.93516I	0.8834 - 15.0479I	0. + 8.99569I
b = -1.36790 + 0.61478I	_	
u = 1.106830 + 0.724523I		
a = 0.16343 + 1.57481I	4.59210 - 9.07926I	0
b = -1.291930 + 0.408785I		
u = 1.106830 - 0.724523I		
a = 0.16343 - 1.57481I	4.59210 + 9.07926I	0
	1	

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.031500 + 0.835190I		
a = 0.505754 - 0.770326I	-1.04837 + 3.34425I	0 10.76892I
b = -0.907193 - 0.175723I		
u = -1.031500 - 0.835190I		
a = 0.505754 + 0.770326I	-1.04837 - 3.34425I	0. + 10.76892I
b = -0.907193 + 0.175723I		
u = 0.406402		
a = 1.83709	1.02583	10.4140
b = 0.702503		
u = 0.149228 + 0.309881I		
a = 2.06545 - 0.10916I	0.959713 - 1.013710I	4.02329 - 0.70963I
b = 1.135600 - 0.215122I		
u = 0.149228 - 0.309881I		
a = 2.06545 + 0.10916I	0.959713 + 1.013710I	4.02329 + 0.70963I
b = 1.135600 + 0.215122I		

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{45} + 3u^{44} + \dots + u - 1$
c_2	$u^{45} + 5u^{44} + \dots - 13u - 1$
c_3, c_9	$u^{45} + 3u^{44} + \dots + u - 1$
c_4, c_6	$u^{45} + u^{44} + \dots + u - 1$
<i>C</i> ₅	$u^{45} + u^{44} + \dots - 11u - 1$
c ₈	$u^{45} + 15u^{44} + \dots - 3u - 19$
c_{10}	$u^{45} + 17u^{44} + \dots + 7u + 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{45} - 17y^{44} + \dots + 7y - 1$
c_2	$y^{45} + 107y^{44} + \dots + 67y - 1$
c_3,c_9	$y^{45} + 27y^{44} + \dots + 7y - 1$
c_4, c_6	$y^{45} - 29y^{44} + \dots + 11y - 1$
<i>C</i> ₅	$y^{45} + 3y^{44} + \dots + 35y - 1$
c ₈	$y^{45} - 109y^{44} + \dots - 4893y - 361$
c_{10}	$y^{45} + 23y^{44} + \dots - 9y - 1$