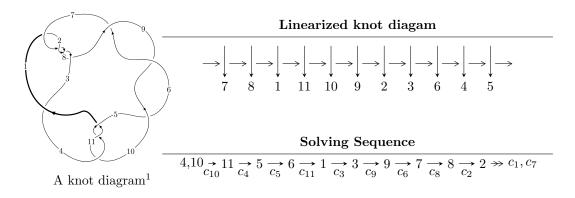
$11a_{339} (K11a_{339})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle u^{27} - u^{26} + \dots - 2u + 1 \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 27 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.
$$I_1^u = \langle u^{27} - u^{26} + \dots - 2u + 1 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{6} = \begin{pmatrix} u^{3} - 2u \\ -u^{3} + u \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} u^{5} - 2u^{3} + u \\ u^{7} - 3u^{5} + 2u^{3} + u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{6} - 3u^{4} + 2u^{2} + 1 \\ -u^{6} + 2u^{4} - u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{9} - 4u^{7} + 5u^{5} - 3u \\ -u^{9} + 3u^{7} - 3u^{5} + u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u^{18} + 7u^{16} - 20u^{14} + 27u^{12} - 11u^{10} - 13u^{8} + 16u^{6} - 6u^{4} + u^{2} + 1 \\ -u^{20} + 8u^{18} - 26u^{16} + 40u^{14} - 19u^{12} - 24u^{10} + 30u^{8} - 2u^{6} - 5u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} u^{22} - 9u^{20} + \dots - 4u^{2} + 1 \\ -u^{22} + 8u^{20} + \dots + 4u^{4} + 3u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} u^{22} - 9u^{20} + \dots - 4u^{2} + 1 \\ -u^{22} + 8u^{20} + \dots + 4u^{4} + 3u^{2} \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = $-4u^{24} + 36u^{22} + 4u^{21} - 140u^{20} - 32u^{19} + 284u^{18} + 108u^{17} - 256u^{16} - 180u^{15} - 96u^{14} + 104u^{13} + 440u^{12} + 120u^{11} - 296u^{10} - 216u^{9} - 112u^{8} + 56u^{7} + 192u^{6} + 80u^{5} - 16u^{4} - 36u^{3} - 32u^{2} - 8u - 14u^{14} + 104u^{14} +$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
$c_1, c_2, c_7 \ c_8$	$u^{27} + u^{26} + \dots - 2u - 1$
c_3, c_5, c_6 c_9	$u^{27} - 3u^{26} + \dots + 4u - 1$
c_4, c_{10}, c_{11}	$u^{27} + u^{26} + \dots - 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_7 c_8	$y^{27} - 29y^{26} + \dots + 10y - 1$
c_3, c_5, c_6 c_9	$y^{27} + 31y^{26} + \dots + 22y - 1$
c_4, c_{10}, c_{11}	$y^{27} - 21y^{26} + \dots + 10y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.013123 + 0.894482I	9.43523 - 2.24680I	-6.17904 + 3.02780I
u = 0.013123 - 0.894482I	9.43523 + 2.24680I	-6.17904 - 3.02780I
u = -0.041452 + 0.892930I	2.82267 + 5.43200I	-9.64025 - 3.04274I
u = -0.041452 - 0.892930I	2.82267 - 5.43200I	-9.64025 + 3.04274I
u = 1.162550 + 0.167516I	-1.60577 - 1.16599I	-9.70330 + 0.15957I
u = 1.162550 - 0.167516I	-1.60577 + 1.16599I	-9.70330 - 0.15957I
u = -0.781754 + 0.091734I	-6.68333 - 0.00498I	-14.6673 - 0.4486I
u = -0.781754 - 0.091734I	-6.68333 + 0.00498I	-14.6673 + 0.4486I
u = -1.25317	-4.90599	-20.0000
u = -1.255670 + 0.210110I	-2.66095 + 4.20438I	-14.1782 - 7.6940I
u = -1.255670 - 0.210110I	-2.66095 - 4.20438I	-14.1782 + 7.6940I
u = -1.243220 + 0.434957I	-0.891189 - 0.687706I	-12.83371 - 0.18639I
u = -1.243220 - 0.434957I	-0.891189 + 0.687706I	-12.83371 + 0.18639I
u = 1.33611	-12.4088	-20.5520
u = 1.319890 + 0.213766I	-9.80481 - 5.99282I	-17.3414 + 5.5228I
u = 1.319890 - 0.213766I	-9.80481 + 5.99282I	-17.3414 - 5.5228I
u = 1.269780 + 0.428859I	5.53802 - 2.48385I	-9.46346 + 0.15279I
u = 1.269780 - 0.428859I	5.53802 + 2.48385I	-9.46346 - 0.15279I
u = -1.290860 + 0.422984I	5.37877 + 6.95944I	-9.93623 - 6.05202I
u = -1.290860 - 0.422984I	5.37877 - 6.95944I	-9.93623 + 6.05202I
u = -0.232231 + 0.591655I	-4.98362 + 3.14884I	-11.41725 - 4.81307I
u = -0.232231 - 0.591655I	-4.98362 - 3.14884I	-11.41725 + 4.81307I
u = 1.310480 + 0.415835I	-1.39565 - 10.11710I	-13.4570 + 5.7483I
u = 1.310480 - 0.415835I	-1.39565 + 10.11710I	-13.4570 - 5.7483I
u = 0.090324 + 0.551346I	1.43201 - 1.45915I	-6.27932 + 5.94435I
u = 0.090324 - 0.551346I	1.43201 + 1.45915I	-6.27932 - 5.94435I
u = 0.275134	-0.522013	-19.2550

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_2, c_7 c_8	$u^{27} + u^{26} + \dots - 2u - 1$
c_3, c_5, c_6 c_9	$u^{27} - 3u^{26} + \dots + 4u - 1$
c_4, c_{10}, c_{11}	$u^{27} + u^{26} + \dots - 2u - 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_7 c_8	$y^{27} - 29y^{26} + \dots + 10y - 1$
c_3, c_5, c_6 c_9	$y^{27} + 31y^{26} + \dots + 22y - 1$
c_4, c_{10}, c_{11}	$y^{27} - 21y^{26} + \dots + 10y - 1$