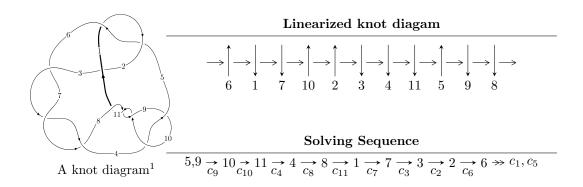
$11a_{75} (K11a_{75})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle u^{41} + u^{40} + \dots + u + 1 \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 41 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.
$$I_1^u = \langle u^{41} + u^{40} + \dots + u + 1 \rangle$$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{4} = \begin{pmatrix} u^{3} + u \\ u^{3} + u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{4} + u^{2} + 1 \\ -u^{4} \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} u^{8} + u^{6} + 3u^{4} + 2u^{2} + 1 \\ -u^{10} - 2u^{8} - 3u^{6} - 4u^{4} - u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} u^{15} + 2u^{13} + 6u^{11} + 8u^{9} + 10u^{7} + 8u^{5} + 4u^{3} \\ -u^{17} - 3u^{15} - 7u^{13} - 12u^{11} - 13u^{9} - 12u^{7} - 6u^{5} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -u^{29} - 4u^{27} + \dots + 8u^{3} + u \\ u^{29} + 3u^{27} + \dots - u^{3} + u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{22} - 3u^{20} + \dots + 2u^{2} + 1 \\ u^{24} + 4u^{22} + \dots - 6u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{22} - 3u^{20} + \dots + 2u^{2} + 1 \\ u^{24} + 4u^{22} + \dots - 6u^{4} - 2u^{2} \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes

$$\begin{array}{l} -4u^{39} - 4u^{38} - 20u^{37} - 20u^{36} - 88u^{35} - 84u^{34} - 256u^{33} - 240u^{32} - 640u^{31} - 572u^{30} - 1280u^{29} - 1108u^{28} - 2208u^{27} - 1808u^{26} - 3192u^{25} - 2484u^{24} - 3956u^{23} - 2856u^{22} - 4076u^{21} - 2692u^{20} - 3468u^{19} - 1996u^{18} - 2228u^{17} - 1004u^{16} - 924u^{15} - 144u^{14} + 56u^{13} + 304u^{12} + 416u^{11} + 344u^{10} + 356u^9 + 168u^8 + 128u^7 + 12u^6 - 20u^4 - 32u^3 - 12u^2 - 12u - 6 \end{array}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1,c_5	$u^{41} - u^{40} + \dots + u + 1$
c_2	$u^{41} + 23u^{40} + \dots - 3u - 1$
c_3, c_6, c_7	$u^{41} + u^{40} + \dots - 7u + 1$
c_4, c_9	$u^{41} + u^{40} + \dots + u + 1$
c_8, c_{10}, c_{11}	$u^{41} + 11u^{40} + \dots - 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{41} + 23y^{40} + \dots - 3y - 1$
c_2	$y^{41} - 9y^{40} + \dots - 19y - 1$
c_3, c_6, c_7	$y^{41} - 41y^{40} + \dots - 51y - 1$
c_4, c_9	$y^{41} + 11y^{40} + \dots - 3y - 1$
c_8, c_{10}, c_{11}	$y^{41} + 39y^{40} + \dots - 11y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.273309 + 1.007330I	-6.20529 - 3.05813I	-7.49814 + 3.80729I
u = -0.273309 - 1.007330I	-6.20529 + 3.05813I	-7.49814 - 3.80729I
u = 0.253711 + 1.021940I	-10.01040 - 1.50035I	-11.08025 - 0.35088I
u = 0.253711 - 1.021940I	-10.01040 + 1.50035I	-11.08025 + 0.35088I
u = 0.289765 + 1.022350I	-9.79545 + 7.79305I	-10.43974 - 6.91622I
u = 0.289765 - 1.022350I	-9.79545 - 7.79305I	-10.43974 + 6.91622I
u = -0.352546 + 0.864150I	-2.13456 - 4.94858I	-7.01922 + 9.44337I
u = -0.352546 - 0.864150I	-2.13456 + 4.94858I	-7.01922 - 9.44337I
u = -0.132698 + 0.868731I	-3.36085 + 0.49947I	-12.33273 - 0.13229I
u = -0.132698 - 0.868731I	-3.36085 - 0.49947I	-12.33273 + 0.13229I
u = -0.830272 + 0.762818I	-2.92978 - 2.50596I	-5.15377 + 2.93090I
u = -0.830272 - 0.762818I	-2.92978 + 2.50596I	-5.15377 - 2.93090I
u = 0.842291 + 0.783314I	1.03604 - 1.75419I	-1.142381 + 0.318926I
u = 0.842291 - 0.783314I	1.03604 + 1.75419I	-1.142381 - 0.318926I
u = -0.858015 + 0.778364I	-2.29038 + 6.57620I	-4.18692 - 3.44855I
u = -0.858015 - 0.778364I	-2.29038 - 6.57620I	-4.18692 + 3.44855I
u = 0.756645 + 0.885386I	1.40338 + 2.86651I	-6.38250 - 2.83312I
u = 0.756645 - 0.885386I	1.40338 - 2.86651I	-6.38250 + 2.83312I
u = 0.836690 + 0.850906I	5.01543 - 2.00642I	-0.12467 + 3.31909I
u = 0.836690 - 0.850906I	5.01543 + 2.00642I	-0.12467 - 3.31909I
u = -0.823694 + 0.876027I	6.13950 - 2.34478I	2.43085 + 2.90580I
u = -0.823694 - 0.876027I	6.13950 + 2.34478I	2.43085 - 2.90580I
u = 0.300266 + 0.727840I	-0.31190 + 1.38897I	-2.22878 - 5.19649I
u = 0.300266 - 0.727840I	-0.31190 - 1.38897I	-2.22878 + 5.19649I
u = -0.810647 + 0.914894I	6.01823 - 3.75969I	2.08469 + 2.66327I
u = -0.810647 - 0.914894I	6.01823 + 3.75969I	2.08469 - 2.66327I
u = 0.807712 + 0.939287I	4.74123 + 8.14027I	-0.92451 - 8.45750I
u = 0.807712 - 0.939287I	4.74123 - 8.14027I	-0.92451 + 8.45750I
u = -0.766003 + 0.985130I	-3.60687 - 3.46651I	-6.32048 + 2.17214I
u = -0.766003 - 0.985130I	-3.60687 + 3.46651I	-6.32048 - 2.17214I

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.779460 + 0.981810I	0.42502 + 7.80969I	-2.24693 - 5.23664I
u = 0.779460 - 0.981810I	0.42502 - 7.80969I	-2.24693 + 5.23664I
u = -0.784350 + 0.990912I	-2.94834 - 12.69200I	-5.29244 + 8.24315I
u = -0.784350 - 0.990912I	-2.94834 + 12.69200I	-5.29244 - 8.24315I
u = 0.675007 + 0.033462I	-6.66197 - 4.52417I	-4.64346 + 3.30102I
u = 0.675007 - 0.033462I	-6.66197 + 4.52417I	-4.64346 - 3.30102I
u = -0.642653	-3.07852	-1.30900
u = 0.368440 + 0.507445I	0.258138 + 1.315180I	0.82726 - 5.55607I
u = 0.368440 - 0.507445I	0.258138 - 1.315180I	0.82726 + 5.55607I
u = -0.457128 + 0.246194I	-0.38333 + 1.88364I	-0.67137 - 3.86434I
u = -0.457128 - 0.246194I	-0.38333 - 1.88364I	-0.67137 + 3.86434I

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1,c_5	$u^{41} - u^{40} + \dots + u + 1$
c_2	$u^{41} + 23u^{40} + \dots - 3u - 1$
c_3, c_6, c_7	$u^{41} + u^{40} + \dots - 7u + 1$
c_4, c_9	$u^{41} + u^{40} + \dots + u + 1$
c_8, c_{10}, c_{11}	$u^{41} + 11u^{40} + \dots - 3u - 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{41} + 23y^{40} + \dots - 3y - 1$
c_2	$y^{41} - 9y^{40} + \dots - 19y - 1$
c_3, c_6, c_7	$y^{41} - 41y^{40} + \dots - 51y - 1$
c_4, c_9	$y^{41} + 11y^{40} + \dots - 3y - 1$
c_8, c_{10}, c_{11}	$y^{41} + 39y^{40} + \dots - 11y - 1$