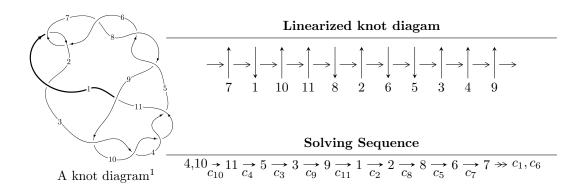
$11a_{225} (K11a_{225})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle u^{26} - u^{25} + \dots - u - 1 \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 26 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.
$$I_1^u = \langle u^{26} - u^{25} + \dots - u - 1 \rangle$$

(i) Arc colorings

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

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

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

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

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

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

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

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

$$a_{6} = \begin{pmatrix} u^{11} - 6u^{9} + 12u^{7} - 10u^{5} + 5u^{3} \\ -u^{13} + 7u^{11} - 17u^{9} + 16u^{7} - 4u^{5} - u^{3} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{16} + 9u^{14} - 31u^{12} + 52u^{10} - 47u^{8} + 24u^{6} - 2u^{4} - 2u^{2} + 1 \\ u^{18} - 10u^{16} + 39u^{14} - 74u^{12} + 69u^{10} - 26u^{8} - 4u^{6} + 8u^{4} - u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u^{16} + 9u^{14} - 31u^{12} + 52u^{10} - 47u^{8} + 24u^{6} - 2u^{4} - 2u^{2} + 1 \\ u^{18} - 10u^{16} + 39u^{14} - 74u^{12} + 69u^{10} - 26u^{8} - 4u^{6} + 8u^{4} - u^{2} \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes

$$=-4u^{23}+56u^{21}-328u^{19}-4u^{18}+1040u^{17}+44u^{16}-1936u^{15}-192u^{14}+2156u^{13}+420u^{12}-1376u^{11}-484u^{10}+324u^{9}+288u^{8}+228u^{7}-60u^{6}-176u^{5}-52u^{4}+52u^{3}+20u^{2}+12u+2$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_6	$u^{26} + u^{25} + \dots + u - 1$
c_2, c_5, c_7 c_8	$u^{26} + 5u^{25} + \dots - 3u + 1$
c_3, c_4, c_9 c_{10}	$u^{26} - u^{25} + \dots - u - 1$
c_{11}	$u^{26} + 9u^{25} + \dots - 247u - 89$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_6	$y^{26} + 5y^{25} + \dots - 3y + 1$
c_2, c_5, c_7 c_8	$y^{26} + 33y^{25} + \dots - 59y + 1$
c_3, c_4, c_9 c_{10}	$y^{26} - 31y^{25} + \dots - 3y + 1$
c_{11}	$y^{26} - 19y^{25} + \dots - 92159y + 7921$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.839779 + 0.452868I	11.16140 + 0.44023I	10.10436 - 1.46145I
u = 0.839779 - 0.452868I	11.16140 - 0.44023I	10.10436 + 1.46145I
u = -0.825387 + 0.468991I	11.03030 - 7.05835I	9.75996 + 6.21969I
u = -0.825387 - 0.468991I	11.03030 + 7.05835I	9.75996 - 6.21969I
u = -0.684207 + 0.398529I	1.89109 - 4.88723I	7.24553 + 8.84366I
u = -0.684207 - 0.398529I	1.89109 + 4.88723I	7.24553 - 8.84366I
u = 0.733274 + 0.287832I	2.67984 + 0.49611I	10.71301 - 1.37639I
u = 0.733274 - 0.287832I	2.67984 - 0.49611I	10.71301 + 1.37639I
u = -0.012357 + 0.660147I	8.58736 + 3.27967I	5.99252 - 2.35106I
u = -0.012357 - 0.660147I	8.58736 - 3.27967I	5.99252 + 2.35106I
u = -0.439187 + 0.350365I	-1.41635 - 1.31903I	-1.30126 + 6.10882I
u = -0.439187 - 0.350365I	-1.41635 + 1.31903I	-1.30126 - 6.10882I
u = 0.525085	0.783407	12.8960
u = -0.106020 + 0.464476I	0.26125 + 1.87689I	2.74450 - 3.73316I
u = -0.106020 - 0.464476I	0.26125 - 1.87689I	2.74450 + 3.73316I
u = 1.54395 + 0.04489I	5.28037 + 2.44629I	3.67676 - 4.11819I
u = 1.54395 - 0.04489I	5.28037 - 2.44629I	3.67676 + 4.11819I
u = -1.58507	8.17274	12.1060
u = 1.59973 + 0.10370I	9.67676 + 6.71425I	9.25508 - 6.45300I
u = 1.59973 - 0.10370I	9.67676 - 6.71425I	9.25508 + 6.45300I
u = -1.61572 + 0.07479I	10.74900 - 1.83401I	11.98633 + 0.23070I
u = -1.61572 - 0.07479I	10.74900 + 1.83401I	11.98633 - 0.23070I
u = 1.64863 + 0.13284I	19.5205 + 9.3622I	11.47654 - 4.95795I
u = 1.64863 - 0.13284I	19.5205 - 9.3622I	11.47654 + 4.95795I
u = -1.65250 + 0.12610I	19.7312 - 2.6570I	11.84579 + 0.35212I
u = -1.65250 - 0.12610I	19.7312 + 2.6570I	11.84579 - 0.35212I

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_6	$u^{26} + u^{25} + \dots + u - 1$
c_2, c_5, c_7 c_8	$u^{26} + 5u^{25} + \dots - 3u + 1$
c_3, c_4, c_9 c_{10}	$u^{26} - u^{25} + \dots - u - 1$
c_{11}	$u^{26} + 9u^{25} + \dots - 247u - 89$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_6	$y^{26} + 5y^{25} + \dots - 3y + 1$
c_2, c_5, c_7 c_8	$y^{26} + 33y^{25} + \dots - 59y + 1$
c_3, c_4, c_9 c_{10}	$y^{26} - 31y^{25} + \dots - 3y + 1$
c_{11}	$y^{26} - 19y^{25} + \dots - 92159y + 7921$