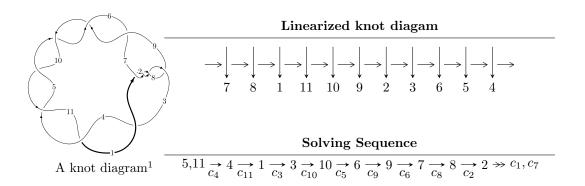
$11a_{342} (K11a_{342})$



Ideals for irreducible components 2 of X_{par}

$$I_1^u = \langle u^{14} - u^{13} + 11u^{12} - 10u^{11} + 46u^{10} - 37u^9 + 91u^8 - 62u^7 + 86u^6 - 46u^5 + 34u^4 - 12u^3 + 4u^2 - u - 1 \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 14 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.
$$I_1^u = \langle u^{14} - u^{13} + 11u^{12} - 10u^{11} + 46u^{10} - 37u^9 + 91u^8 - 62u^7 + 86u^6 - 46u^5 + 34u^4 - 12u^3 + 4u^2 - u - 1 \rangle$$

(i) Arc colorings

$$a_{5} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

$$a_{10} = \begin{pmatrix} u \\ u \end{pmatrix}$$

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

$$a_{9} = \begin{pmatrix} u^{3} + 2u \\ u^{3} + u \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} u^{9} + 6u^{7} + 11u^{5} + 8u^{3} + 3u \\ -u^{11} - 7u^{9} - 16u^{7} - 13u^{5} - u^{3} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -u^{11} - 8u^{9} - 22u^{7} - 24u^{5} - 9u^{3} - 2u \\ -u^{11} - 7u^{9} - 16u^{7} - 13u^{5} - u^{3} + u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -u^{11} - 8u^{9} - 22u^{7} - 24u^{5} - 9u^{3} - 2u \\ -u^{11} - 7u^{9} - 16u^{7} - 13u^{5} - u^{3} + u \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$-4u^{12} + 4u^{11} - 40u^{10} + 36u^9 - 148u^8 + 116u^7 - 248u^6 + 160u^5 - 184u^4 + 88u^3 - 48u^2 + 12u - 10$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_7 c_8	$u^{14} + u^{13} + \dots - u - 1$
$c_3, c_4, c_5 \\ c_6, c_9, c_{10} \\ c_{11}$	$u^{14} - u^{13} + \dots - u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_7 \ c_8$	$y^{14} - 15y^{13} + \dots - 9y + 1$
c_3, c_4, c_5 c_6, c_9, c_{10} c_{11}	$y^{14} + 21y^{13} + \dots - 9y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.381730 + 0.625511I	-4.92622 - 2.93973I	-10.63366 + 4.87049I
u = 0.381730 - 0.625511I	-4.92622 + 2.93973I	-10.63366 - 4.87049I
u = 0.168472 + 1.304890I	1.39190 - 4.86264I	-8.09843 + 3.43305I
u = 0.168472 - 1.304890I	1.39190 + 4.86264I	-8.09843 - 3.43305I
u = -0.055653 + 1.326060I	7.86080 + 2.05217I	-4.38288 - 3.48878I
u = -0.055653 - 1.326060I	7.86080 - 2.05217I	-4.38288 + 3.48878I
u = -0.146994 + 0.629165I	1.33933 + 1.36693I	-5.43833 - 6.34895I
u = -0.146994 - 0.629165I	1.33933 - 1.36693I	-5.43833 + 6.34895I
u = 0.510750	-6.81823	-15.6260
u = -0.261519	-0.527184	-19.1440
u = 0.04100 + 1.81566I	12.9478 - 5.8388I	-7.65915 + 2.72028I
u = 0.04100 - 1.81566I	12.9478 + 5.8388I	-7.65915 - 2.72028I
u = -0.01317 + 1.82219I	19.6027 + 2.3762I	-4.40255 - 2.72640I
u = -0.01317 - 1.82219I	19.6027 - 2.3762I	-4.40255 + 2.72640I

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_2, c_7 c_8	$u^{14} + u^{13} + \dots - u - 1$
c_3, c_4, c_5 c_6, c_9, c_{10} c_{11}	$u^{14} - u^{13} + \dots - u - 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_7 c_8	$y^{14} - 15y^{13} + \dots - 9y + 1$
c_3, c_4, c_5 c_6, c_9, c_{10} c_{11}	$y^{14} + 21y^{13} + \dots - 9y + 1$