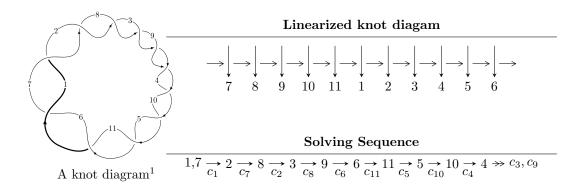
## $11a_{367} \ (K11a_{367})$



Ideals for irreducible components<sup>2</sup> of  $X_{par}$ 

$$I_1^u = \langle u^5 - u^4 - 4u^3 + 3u^2 + 3u - 1 \rangle$$

\* 1 irreducible components of  $\dim_{\mathbb{C}} = 0$ , with total 5 representations.

<sup>&</sup>lt;sup>1</sup>The 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).

<sup>&</sup>lt;sup>2</sup> All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I. 
$$I_1^u = \langle u^5 - u^4 - 4u^3 + 3u^2 + 3u - 1 \rangle$$

(i) Arc colorings

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

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

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

$$a_{8} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

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

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

$$a_{6} = \begin{pmatrix} u \\ u \end{pmatrix}$$

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

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

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

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

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

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = -22

## (iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
$c_1, c_2, c_3$ $c_4, c_5, c_6$ $c_7, c_8, c_9$ $c_{10}, c_{11}$	$u^5 + u^4 - 4u^3 - 3u^2 + 3u + 1$

## (v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_3$ $c_4, c_5, c_6$ $c_7, c_8, c_9$ $c_{10}, c_{11}$	$y^5 - 9y^4 + 28y^3 - 35y^2 + 15y - 1$

## (vi) Complex Volumes and Cusp Shapes

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.830830	-4.03757	-22.0000
u = 1.30972	-11.2155	-22.0000
u = -1.68251	17.4961	-22.0000
u = 0.284630	-0.448618	-22.0000
u = 1.91899	3.14033	-22.0000

II. u-Polynomials

Crossings	u-Polynomials at each crossing
$c_1, c_2, c_3$ $c_4, c_5, c_6$ $c_7, c_8, c_9$ $c_{10}, c_{11}$	$u^5 + u^4 - 4u^3 - 3u^2 + 3u + 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_3$ $c_4, c_5, c_6$ $c_7, c_8, c_9$ $c_{10}, c_{11}$	$y^5 - 9y^4 + 28y^3 - 35y^2 + 15y - 1$