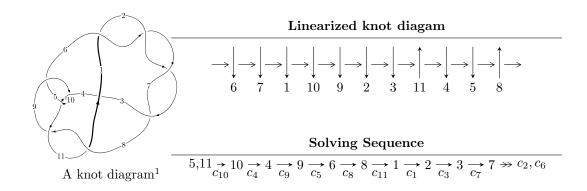
$11a_{308} (K11a_{308})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle u^{35} - u^{34} + \dots - 2u - 1 \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 35 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.
$$I_1^u = \langle u^{35} - u^{34} + \dots - 2u - 1 \rangle$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

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

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

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

$$a_{2} = \begin{pmatrix} u^{20} + 9u^{18} + \dots + u^{2} + 1 \\ u^{22} - 10u^{20} + \dots + 2u^{4} + u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -u^{19} + 8u^{17} - 24u^{15} + 30u^{13} - 7u^{11} - 10u^{9} - 4u^{7} + 6u^{5} + 3u^{3} + 2u \\ u^{19} - 9u^{17} + 32u^{15} - 55u^{13} + 43u^{11} - 9u^{9} - 4u^{5} - u^{3} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{34} - 15u^{32} + \dots - u^{2} + 1 \\ -u^{34} + 16u^{32} + \dots - 2u^{4} - 3u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{34} - 15u^{32} + \dots - u^{2} + 1 \\ -u^{34} + 16u^{32} + \dots - 2u^{4} - 3u^{2} \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes

$$= -4u^{33} + 64u^{31} - 452u^{29} - 4u^{28} + 1840u^{27} + 52u^{26} - 4728u^{25} - 292u^{24} + 7904u^{23} + 916u^{22} - 8628u^{21} - 1732u^{20} + 6320u^{19} + 1988u^{18} - 3804u^{17} - 1360u^{16} + 2528u^{15} + 636u^{14} - 1276u^{13} - 364u^{12} + 276u^{11} + 144u^{10} - 180u^{9} + 64u^{8} + 96u^{7} - 24u^{6} + 36u^{5} - 8u^{4} + 24u^{3} - 20u^{2} - 4u - 14u^{10} - 180u^{10} + 24u^{10} + 24u^{10} - 180u^{10} + 24u^{10} +$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2, c_6 c_7	$u^{35} - u^{34} + \dots - 2u - 1$
c_3	$u^{35} - 11u^{34} + \dots + 444u - 113$
c_4, c_9, c_{10}	$u^{35} - u^{34} + \dots - 2u - 1$
c_5	$u^{35} + 3u^{34} + \dots + 54u + 9$
c_{8}, c_{11}	$u^{35} + 5u^{34} + \dots + 4u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6 c_7	$y^{35} - 41y^{34} + \dots + 6y - 1$
c_3	$y^{35} - 17y^{34} + \dots + 162106y - 12769$
c_4, c_9, c_{10}	$y^{35} - 33y^{34} + \dots + 6y - 1$
c_5	$y^{35} - 13y^{34} + \dots + 3618y - 81$
c_{8}, c_{11}	$y^{35} + 31y^{34} + \dots + 298y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.09220	-7.72425	-11.4230
u = -0.416127 + 0.687266I	-11.53560 + 7.43008I	-13.0479 - 5.8668I
u = -0.416127 - 0.687266I	-11.53560 - 7.43008I	-13.0479 + 5.8668I
u = -0.525382 + 0.592520I	-11.96020 - 3.16210I	-14.1562 - 0.1993I
u = -0.525382 - 0.592520I	-11.96020 + 3.16210I	-14.1562 + 0.1993I
u = 0.404028 + 0.654601I	-3.38071 - 5.28518I	-11.19312 + 7.66639I
u = 0.404028 - 0.654601I	-3.38071 + 5.28518I	-11.19312 - 7.66639I
u = -1.245760 + 0.112991I	-2.03937 + 0.97518I	-7.22361 + 0.37761I
u = -1.245760 - 0.112991I	-2.03937 - 0.97518I	-7.22361 - 0.37761I
u = 0.478538 + 0.569763I	-3.71886 + 1.25391I	-12.53849 - 1.04095I
u = 0.478538 - 0.569763I	-3.71886 - 1.25391I	-12.53849 + 1.04095I
u = -0.401418 + 0.595064I	-1.30259 + 1.88118I	-7.16532 - 3.48234I
u = -0.401418 - 0.595064I	-1.30259 - 1.88118I	-7.16532 + 3.48234I
u = 1.284920 + 0.176915I	-2.74426 - 4.13151I	-10.06219 + 7.59188I
u = 1.284920 - 0.176915I	-2.74426 + 4.13151I	-10.06219 - 7.59188I
u = -1.313190 + 0.225618I	-9.81072 + 5.98333I	-13.3282 - 5.5351I
u = -1.313190 - 0.225618I	-9.81072 - 5.98333I	-13.3282 + 5.5351I
u = 0.140885 + 0.636642I	-5.27877 - 2.85435I	-7.73114 + 4.21990I
u = 0.140885 - 0.636642I	-5.27877 + 2.85435I	-7.73114 - 4.21990I
u = 0.650180	-7.56446	-13.6890
u = 1.35428	-5.67856	-17.2470
u = -1.42496	-13.8091	-17.9870
u = -0.062444 + 0.564757I	1.40484 + 1.42814I	-2.59292 - 5.83605I
u = -0.062444 - 0.564757I	1.40484 - 1.42814I	-2.59292 + 5.83605I
u = 1.45233 + 0.22468I	-7.26272 - 4.90638I	-11.00863 + 2.94514I
u = 1.45233 - 0.22468I	-7.26272 + 4.90638I	-11.00863 - 2.94514I
u = -1.46000 + 0.24290I	-9.38489 + 8.56887I	-14.7051 - 7.1915I
u = -1.46000 - 0.24290I	-9.38489 - 8.56887I	-14.7051 + 7.1915I
u = -1.46668 + 0.20359I	-9.96671 + 1.56878I	-15.9909 + 0.I
u = -1.46668 - 0.20359I	-9.96671 - 1.56878I	-15.9909 + 0.I

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.46917 + 0.25360I	-17.6166 - 10.8655I	-16.5622 + 5.6789I
u = 1.46917 - 0.25360I	-17.6166 + 10.8655I	-16.5622 - 5.6789I
u = 1.48595 + 0.19714I	-18.4666 + 0.3155I	-17.6053 + 0.I
u = 1.48595 - 0.19714I	-18.4666 - 0.3155I	-17.6053 + 0.I
u = -0.321346	-0.640564	-15.8310

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_2, c_6 c_7	$u^{35} - u^{34} + \dots - 2u - 1$
c_3	$u^{35} - 11u^{34} + \dots + 444u - 113$
c_4, c_9, c_{10}	$u^{35} - u^{34} + \dots - 2u - 1$
<i>C</i> ₅	$u^{35} + 3u^{34} + \dots + 54u + 9$
c_8, c_{11}	$u^{35} + 5u^{34} + \dots + 4u - 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_6 c_7	$y^{35} - 41y^{34} + \dots + 6y - 1$
c_3	$y^{35} - 17y^{34} + \dots + 162106y - 12769$
c_4, c_9, c_{10}	$y^{35} - 33y^{34} + \dots + 6y - 1$
c_5	$y^{35} - 13y^{34} + \dots + 3618y - 81$
c_8,c_{11}	$y^{35} + 31y^{34} + \dots + 298y - 1$