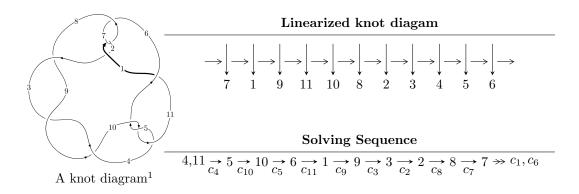
$11a_{235} (K11a_{235})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle u^{35} - u^{34} + \dots - 4u + 1 \rangle$$

* 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.
$$I_1^u = \langle u^{35} - u^{34} + \dots - 4u + 1 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

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

$$a_{1} = \begin{pmatrix} -u^{5} - 2u^{3} - u \\ -u^{7} - 3u^{5} - 2u^{3} + u \end{pmatrix}$$

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

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

$$a_{2} = \begin{pmatrix} u^{18} + 7u^{16} + 20u^{14} + 27u^{12} + 11u^{10} - 13u^{8} - 16u^{6} - 6u^{4} - u^{2} + 1 \\ u^{20} + 8u^{18} + 26u^{16} + 40u^{14} + 19u^{12} - 24u^{10} - 30u^{8} - 2u^{6} + 5u^{4} - 2u^{2} \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u^{9} - 4u^{7} - 5u^{5} + 3u \\ -u^{9} - 3u^{7} - 3u^{5} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u^{22} - 9u^{20} + \dots + 4u^{2} + 1 \\ -u^{22} - 8u^{20} + \dots - 4u^{4} + 3u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u^{22} - 9u^{20} + \dots + 4u^{2} + 1 \\ -u^{22} - 8u^{20} + \dots - 4u^{4} + 3u^{2} \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes

$$=4u^{34}-4u^{33}+52u^{32}-48u^{31}+300u^{30}-256u^{29}+980u^{28}-772u^{27}+1868u^{26}-1352u^{25}+1680u^{24}-1100u^{23}-756u^{22}+500u^{21}-3692u^{20}+2060u^{19}-3200u^{18}+1536u^{17}+804u^{16}-428u^{15}+3104u^{14}-1136u^{13}+1216u^{12}-208u^{11}-976u^{10}+368u^{9}-704u^{8}+64u^{7}+136u^{6}-128u^{5}+128u^{4}-24u^{3}-28u^{2}+20u-22$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{35} + u^{34} + \dots - 2u - 1$
c_{2}, c_{6}	$u^{35} + 13u^{34} + \dots + 10u + 1$
c_3, c_8, c_9 c_{11}	$u^{35} - u^{34} + \dots - 8u - 1$
c_4, c_5, c_{10}	$u^{35} + u^{34} + \dots - 4u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{35} - 13y^{34} + \dots + 10y - 1$
c_2, c_6	$y^{35} + 19y^{34} + \dots + 26y - 1$
c_3, c_8, c_9 c_{11}	$y^{35} - 41y^{34} + \dots + 26y - 1$
c_4, c_5, c_{10}	$y^{35} + 27y^{34} + \dots + 10y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.154678 + 1.010450I	1.47757 - 2.06754I	-12.18012 + 2.63820I
u = -0.154678 - 1.010450I	1.47757 + 2.06754I	-12.18012 - 2.63820I
u = 0.908910	-13.2599	-19.8870
u = 0.902196 + 0.033304I	-9.04332 - 7.10158I	-16.2339 + 4.8820I
u = 0.902196 - 0.033304I	-9.04332 + 7.10158I	-16.2339 - 4.8820I
u = -0.889066 + 0.023250I	-7.40598 + 1.64045I	-14.07012 - 0.25947I
u = -0.889066 - 0.023250I	-7.40598 - 1.64045I	-14.07012 + 0.25947I
u = 0.126515 + 1.195620I	2.79133 - 1.62971I	-6.97786 + 4.00042I
u = 0.126515 - 1.195620I	2.79133 + 1.62971I	-6.97786 - 4.00042I
u = -0.253657 + 1.196640I	-0.75414 + 3.23838I	-15.3127 - 4.6996I
u = -0.253657 - 1.196640I	-0.75414 - 3.23838I	-15.3127 + 4.6996I
u = 0.198838 + 1.295440I	4.68045 - 2.80636I	-6.46642 + 3.03616I
u = 0.198838 - 1.295440I	4.68045 + 2.80636I	-6.46642 - 3.03616I
u = 0.016865 + 1.315770I	6.80865 - 2.68270I	-3.85369 + 3.32127I
u = 0.016865 - 1.315770I	6.80865 + 2.68270I	-3.85369 - 3.32127I
u = -0.229253 + 1.304350I	3.85759 + 8.16795I	-8.47769 - 8.32654I
u = -0.229253 - 1.304350I	3.85759 - 8.16795I	-8.47769 + 8.32654I
u = 0.441243 + 1.254100I	-5.26665 + 2.30484I	-13.10183 - 1.73912I
u = 0.441243 - 1.254100I	-5.26665 - 2.30484I	-13.10183 + 1.73912I
u = -0.426047 + 1.260090I	-3.57477 + 3.06228I	-10.68806 - 2.96548I
u = -0.426047 - 1.260090I	-3.57477 - 3.06228I	-10.68806 + 2.96548I
u = 0.437322 + 1.284290I	-9.27089 - 4.80858I	-16.4615 + 3.1101I
u = 0.437322 - 1.284290I	-9.27089 + 4.80858I	-16.4615 - 3.1101I
u = -0.638167	-4.33695	-20.8200
u = -0.610512 + 0.184495I	-0.75413 + 5.18051I	-14.8353 - 7.3100I
u = -0.610512 - 0.184495I	-0.75413 - 5.18051I	-14.8353 + 7.3100I
u = -0.416900 + 1.297630I	-3.29192 + 6.31527I	-10.32852 - 3.15989I
u = -0.416900 - 1.297630I	-3.29192 - 6.31527I	-10.32852 + 3.15989I
u = 0.423822 + 1.307190I	-4.86404 - 11.84450I	-12.4530 + 7.6430I
u = 0.423822 - 1.307190I	-4.86404 + 11.84450I	-12.4530 - 7.6430I

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.520978 + 0.193769I	0.117264 - 0.215670I	-13.04627 + 2.21794I
u = 0.520978 - 0.193769I	0.117264 + 0.215670I	-13.04627 - 2.21794I
u = 0.123574 + 0.525438I	1.48613 - 2.36443I	-8.99438 + 4.59259I
u = 0.123574 - 0.525438I	1.48613 + 2.36443I	-8.99438 - 4.59259I
u = 0.306778	-0.541818	-18.3300

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_7	$u^{35} + u^{34} + \dots - 2u - 1$
c_2, c_6	$u^{35} + 13u^{34} + \dots + 10u + 1$
c_3, c_8, c_9 c_{11}	$u^{35} - u^{34} + \dots - 8u - 1$
c_4, c_5, c_{10}	$u^{35} + u^{34} + \dots - 4u - 1$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_7	$y^{35} - 13y^{34} + \dots + 10y - 1$
c_2, c_6	$y^{35} + 19y^{34} + \dots + 26y - 1$
c_3, c_8, c_9 c_{11}	$y^{35} - 41y^{34} + \dots + 26y - 1$
c_4, c_5, c_{10}	$y^{35} + 27y^{34} + \dots + 10y - 1$