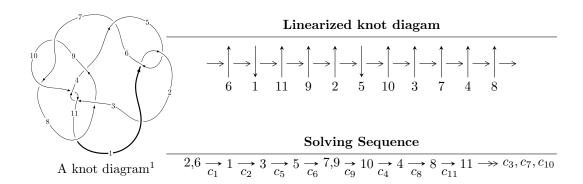
$11a_{150} (K11a_{150})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 5.92448 \times 10^{33} u^{61} - 1.02898 \times 10^{34} u^{60} + \dots + 1.17126 \times 10^{34} b - 5.31916 \times 10^{33}, \\ 8.54907 \times 10^{32} u^{61} + 2.67122 \times 10^{33} u^{60} + \dots + 1.17126 \times 10^{34} a - 1.99667 \times 10^{34}, \ u^{62} - 3u^{61} + \dots - 3u + 10^{34} u^{60} + \dots + 1.17126 u^{60} u^{60} + \dots + 1.17126 u^{60} u^{6$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 62 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.

 $I. \\ I_1^u = \langle 5.92 \times 10^{33} u^{61} - 1.03 \times 10^{34} u^{60} + \dots + 1.17 \times 10^{34} b - 5.32 \times 10^{33}, \ 8.55 \times 10^{32} u^{61} + 2.67 \times 10^{33} u^{60} + \dots + 1.17 \times 10^{34} a - 2.00 \times 10^{34}, \ u^{62} - 3u^{61} + \dots - 3u + 1 \rangle$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

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

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

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

$$a_{9} = \begin{pmatrix} -0.0729904u^{61} - 0.228063u^{60} + \cdots - 3.85257u + 1.70472 \\ -0.505821u^{61} + 0.878522u^{60} + \cdots + 0.946087u + 0.454140 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0556025u^{61} - 0.656967u^{60} + \cdots - 3.50832u + 1.53444 \\ -0.800994u^{61} + 1.63689u^{60} + \cdots - 0.390734u + 0.638367 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.955009u^{61} - 3.66751u^{60} + \cdots + 4.99704u - 2.34895 \\ -0.104931u^{61} + 0.897107u^{60} + \cdots + 0.756639u - 0.648091 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.101533u^{61} - 0.116613u^{60} + \cdots - 5.40842u + 1.67042 \\ -0.557807u^{61} + 1.02766u^{60} + \cdots + 0.790291u + 0.499051 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.212577u^{61} + 0.857984u^{60} + \cdots - 5.64360u + 3.30260 \\ -1.52544u^{61} + 4.42060u^{60} + \cdots + 2.47746u - 0.957556 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.212577u^{61} + 0.857984u^{60} + \cdots - 5.64360u + 3.30260 \\ -1.52544u^{61} + 4.42060u^{60} + \cdots + 2.47746u - 0.957556 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-2.26821u^{61} + 7.95048u^{60} + \cdots 1.19620u + 11.3832$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{62} - 3u^{61} + \dots - 3u + 1$
c_2, c_6	$u^{62} + 17u^{61} + \dots - u + 1$
c_3, c_{10}	$u^{62} + 3u^{61} + \dots - u + 1$
c_4	$u^{62} + 15u^{61} + \dots + 14601u - 4393$
c_{7}, c_{9}	$u^{62} + u^{61} + \dots + 3u - 1$
<i>c</i> ₈	$u^{62} + u^{61} + \dots - 11u - 1$
c_{11}	$u^{62} + 27u^{61} + \dots - 73u - 43$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{62} + 17y^{61} + \dots - y + 1$
c_2, c_6	$y^{62} + 57y^{61} + \dots - 49y + 1$
c_3, c_{10}	$y^{62} + 37y^{61} + \dots - y + 1$
C ₄	$y^{62} + 345y^{61} + \dots - 184476553y + 19298449$
c_7, c_9	$y^{62} - 43y^{61} + \dots + 67y + 1$
<i>c</i> ₈	$y^{62} - 3y^{61} + \dots + 27y + 1$
c_{11}	$y^{62} - 343y^{61} + \dots - 98037y + 1849$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.233941 + 0.974873I		
a = -0.130745 + 1.231300I	-5.58386 - 5.07710I	0. + 6.39246I
b = 1.20344 - 0.93140I		
u = -0.233941 - 0.974873I		
a = -0.130745 - 1.231300I	-5.58386 + 5.07710I	0 6.39246I
b = 1.20344 + 0.93140I		
u = -0.342652 + 0.944226I		
a = -0.419993 - 0.060562I	-5.00545 - 0.49255I	0. + 3.20018I
b = -0.625287 + 0.596594I		
u = -0.342652 - 0.944226I		
a = -0.419993 + 0.060562I	-5.00545 + 0.49255I	0 3.20018I
b = -0.625287 - 0.596594I		
u = 0.153290 + 0.920392I		
a = 0.174303 + 0.695564I	-1.76466 + 1.66966I	2.52149 - 4.58368I
b = -0.725323 - 0.206126I		
u = 0.153290 - 0.920392I		
a = 0.174303 - 0.695564I	-1.76466 - 1.66966I	2.52149 + 4.58368I
b = -0.725323 + 0.206126I		
u = 0.929527		
a = -0.431713	4.73356	21.5180
b = -0.530504		
u = 0.736100 + 0.839352I		
a = 0.625972 - 1.122520I	1.37977 + 2.70121I	0
b = 0.25553 + 1.54232I		
u = 0.736100 - 0.839352I		
a = 0.625972 + 1.122520I	1.37977 - 2.70121I	0
b = 0.25553 - 1.54232I		
u = -0.789702 + 0.810743I		
a = 1.12489 - 1.57251I	4.18121 - 0.02705I	0
b = -1.73762 + 0.87825I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.789702 - 0.810743I		
a = 1.12489 + 1.57251I	4.18121 + 0.02705I	0
b = -1.73762 - 0.87825I		
u = 0.817053 + 0.788358I		
a = -1.72604 - 1.05558I	1.14770 - 3.66515I	0
b = 1.91057 + 0.30098I		
u = 0.817053 - 0.788358I		
a = -1.72604 + 1.05558I	1.14770 + 3.66515I	0
b = 1.91057 - 0.30098I		
u = -0.330897 + 1.086980I		
a = 0.052301 - 0.533925I	-2.42165 - 10.69330I	0
b = -1.136400 - 0.072139I		
u = -0.330897 - 1.086980I		
a = 0.052301 + 0.533925I	-2.42165 + 10.69330I	0
b = -1.136400 + 0.072139I		
u = -0.191245 + 1.125970I		
a = 0.424086 + 0.452072I	-3.25243 + 3.43205I	0
b = -0.112808 - 0.950910I		
u = -0.191245 - 1.125970I		
a = 0.424086 - 0.452072I	-3.25243 - 3.43205I	0
b = -0.112808 + 0.950910I		
u = 0.699940 + 0.915282I		
a = 0.883343 + 0.109262I	1.15333 + 2.78689I	0
b = -0.665362 + 0.493910I		
u = 0.699940 - 0.915282I		
a = 0.883343 - 0.109262I	1.15333 - 2.78689I	0
b = -0.665362 - 0.493910I		
u = 0.293896 + 0.791599I		
a = 1.372560 - 0.140152I	-0.39022 + 3.86672I	5.90788 - 9.08899I
b = -1.74453 + 0.97363I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.293896 - 0.791599I		
a = 1.372560 + 0.140152I	-0.39022 - 3.86672I	5.90788 + 9.08899I
b = -1.74453 - 0.97363I		
u = -0.751244 + 0.881873I		
a = 7.9454 + 16.0972I	3.03672 - 2.84894I	-90.977 - 147.127I
b = 5.3873 - 20.3768I		
u = -0.751244 - 0.881873I		
a = 7.9454 - 16.0972I	3.03672 + 2.84894I	-90.977 + 147.127I
b = 5.3873 + 20.3768I		
u = 0.099206 + 0.819273I		
a = -0.693059 + 0.958627I	-1.49291 - 0.30288I	6.68102 - 7.18270I
b = -0.97879 + 1.67339I		
u = 0.099206 - 0.819273I		
a = -0.693059 - 0.958627I	-1.49291 + 0.30288I	6.68102 + 7.18270I
b = -0.97879 - 1.67339I		
u = -0.811325 + 0.855337I		
a = 1.02748 - 1.98302I	5.99939 + 0.78225I	0
b = -1.43041 + 0.97746I		
u = -0.811325 - 0.855337I		
a = 1.02748 + 1.98302I	5.99939 - 0.78225I	0
b = -1.43041 - 0.97746I		
u = -0.817162 + 0.076718I		
a = 0.557951 + 0.249895I	0.96723 + 6.76946I	10.42875 - 6.10913I
b = 0.619554 + 0.545965I		
u = -0.817162 - 0.076718I		
a = 0.557951 - 0.249895I	0.96723 - 6.76946I	10.42875 + 6.10913I
b = 0.619554 - 0.545965I		
u = 0.903335 + 0.763131I		
a = 1.58371 + 1.40581I	5.82273 - 9.92532I	0
b = -2.04345 + 0.10821I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.903335 - 0.763131I		
a = 1.58371 - 1.40581I	5.82273 + 9.92532I	0
b = -2.04345 - 0.10821I		
u = 0.801297 + 0.878767I		
a = -0.483885 - 0.937624I	6.91724 + 2.74492I	0
b = 0.274288 + 0.065829I		
u = 0.801297 - 0.878767I		
a = -0.483885 + 0.937624I	6.91724 - 2.74492I	0
b = 0.274288 - 0.065829I		
u = -0.919899 + 0.762554I		
a = -1.09122 + 1.22881I	9.64228 + 3.86851I	0
b = 1.52740 - 0.02797I		
u = -0.919899 - 0.762554I		
a = -1.09122 - 1.22881I	9.64228 - 3.86851I	0
b = 1.52740 + 0.02797I		
u = 0.384411 + 1.134740I		
a = -0.110043 - 0.199538I	0.94109 + 4.46712I	0
b = 0.727530 - 0.187535I		
u = 0.384411 - 1.134740I		
a = -0.110043 + 0.199538I	0.94109 - 4.46712I	0
b = 0.727530 + 0.187535I		
u = 0.794631 + 0.900072I		
a = 0.529387 + 0.334235I	6.85084 + 3.23980I	0
b = -1.36232 - 0.59261I		
u = 0.794631 - 0.900072I		
a = 0.529387 - 0.334235I	6.85084 - 3.23980I	0
b = -1.36232 + 0.59261I		
u = -0.758229 + 0.946770I		
a = -1.32947 + 1.46124I	3.76313 - 5.80968I	0
b = 2.03631 - 0.87059I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.758229 - 0.946770I		
a = -1.32947 - 1.46124I	3.76313 + 5.80968I	0
b = 2.03631 + 0.87059I		
u = -0.792260 + 0.922878I		
a = -1.64621 + 1.05149I	5.79100 - 6.78973I	0
b = 2.57092 - 0.66498I		
u = -0.792260 - 0.922878I		
a = -1.64621 - 1.05149I	5.79100 + 6.78973I	0
b = 2.57092 + 0.66498I		
u = 0.989705 + 0.719878I		
a = 0.244303 + 0.652654I	4.58484 + 2.57158I	0
b = -0.528313 - 0.037104I		
u = 0.989705 - 0.719878I		
a = 0.244303 - 0.652654I	4.58484 - 2.57158I	0
b = -0.528313 + 0.037104I		
u = 0.767748 + 0.968583I		
a = 0.93996 + 1.97333I	0.59571 + 9.61001I	0
b = -1.74350 - 1.71204I		
u = 0.767748 - 0.968583I		
a = 0.93996 - 1.97333I	0.59571 - 9.61001I	0
b = -1.74350 + 1.71204I		
u = 0.796750 + 1.019410I		
a = -1.09739 - 1.94527I	5.0175 + 16.2111I	0
b = 2.54984 + 1.54483I		
u = 0.796750 - 1.019410I		
a = -1.09739 + 1.94527I	5.0175 - 16.2111I	0
b = 2.54984 - 1.54483I		
u = -0.208653 + 0.671289I		
a = -0.50660 - 1.40640I	1.24146 - 0.98622I	9.68923 - 0.00108I
b = 0.966809 + 0.993102I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.208653 - 0.671289I		
a = -0.50660 + 1.40640I	1.24146 + 0.98622I	9.68923 + 0.00108I
b = 0.966809 - 0.993102I		
u = -0.804538 + 1.026660I		
a = 0.95806 - 1.42226I	8.80960 - 10.22650I	0
b = -2.12242 + 1.08518I		
u = -0.804538 - 1.026660I		
a = 0.95806 + 1.42226I	8.80960 + 10.22650I	0
b = -2.12242 - 1.08518I		
u = 0.852377 + 1.058720I		
a = -0.240483 - 0.650672I	3.54226 + 4.13545I	0
b = 0.924864 + 0.679823I		
u = 0.852377 - 1.058720I		
a = -0.240483 + 0.650672I	3.54226 - 4.13545I	0
b = 0.924864 - 0.679823I		
u = -0.267685 + 0.530806I		
a = -1.06202 - 2.33490I	1.46923 - 1.18627I	9.25634 + 4.59290I
b = 0.263606 + 1.305770I		
u = -0.267685 - 0.530806I		
a = -1.06202 + 2.33490I	1.46923 + 1.18627I	9.25634 - 4.59290I
b = 0.263606 - 1.305770I		
u = -0.535919 + 0.048687I		
a = 0.045166 + 0.921741I	-2.56130 - 2.50988I	6.34359 + 3.13989I
b = -0.559745 + 0.668972I		
u = -0.535919 - 0.048687I		
a = 0.045166 - 0.921741I	-2.56130 + 2.50988I	6.34359 - 3.13989I
b = -0.559745 - 0.668972I		
u = 0.335461 + 0.238621I		
a = 1.34053 - 2.57954I	1.04914 - 1.31929I	11.02923 + 0.35157I
b = 0.814929 + 0.614489I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.335461 - 0.238621I		
a = 1.34053 + 2.57954I	1.04914 + 1.31929I	11.02923 - 0.35157I
b = 0.814929 - 0.614489I		
u = 0.330774		
a = 0.847207	0.709445	14.3000
b = 0.497316		

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1,c_5	$u^{62} - 3u^{61} + \dots - 3u + 1$
c_2, c_6	$u^{62} + 17u^{61} + \dots - u + 1$
c_3, c_{10}	$u^{62} + 3u^{61} + \dots - u + 1$
<i>C</i> ₄	$u^{62} + 15u^{61} + \dots + 14601u - 4393$
c_7, c_9	$u^{62} + u^{61} + \dots + 3u - 1$
c ₈	$u^{62} + u^{61} + \dots - 11u - 1$
c_{11}	$u^{62} + 27u^{61} + \dots - 73u - 43$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{62} + 17y^{61} + \dots - y + 1$
c_2, c_6	$y^{62} + 57y^{61} + \dots - 49y + 1$
c_3, c_{10}	$y^{62} + 37y^{61} + \dots - y + 1$
c_4	$y^{62} + 345y^{61} + \dots - 184476553y + 19298449$
c_{7}, c_{9}	$y^{62} - 43y^{61} + \dots + 67y + 1$
c ₈	$y^{62} - 3y^{61} + \dots + 27y + 1$
c_{11}	$y^{62} - 343y^{61} + \dots - 98037y + 1849$