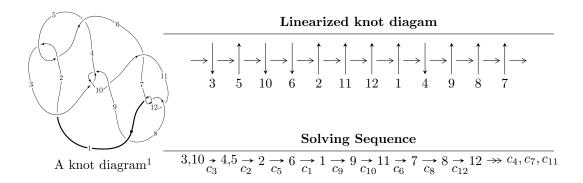
$12a_{0194} (K12a_{0194})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -1.93196 \times 10^{140} u^{86} + 6.66096 \times 10^{139} u^{85} + \dots + 1.09402 \times 10^{141} b + 3.74745 \times 10^{141},$$

$$1.59602 \times 10^{141} u^{86} - 1.20857 \times 10^{140} u^{85} + \dots + 2.18804 \times 10^{141} a - 3.03570 \times 10^{142}, \ u^{87} - u^{86} + \dots - 32u^{140} u^{140} u^{140}$$

 $I_1^v = \langle a, v^4 + v^3 + v^2 + b + v + 1, v^6 + v^5 + v^4 + 2v^3 + v^2 + 1 \rangle$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 93 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.
$$I_1^u = \langle -1.93 \times 10^{140} u^{86} + 6.66 \times 10^{139} u^{85} + \dots + 1.09 \times 10^{141} b + 3.75 \times 10^{141}, \ 1.60 \times 10^{141} u^{86} - 1.21 \times 10^{140} u^{85} + \dots + 2.19 \times 10^{141} a - 3.04 \times 10^{142}, \ u^{87} - u^{86} + \dots - 32u - 64 \rangle$$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} -0.729429u^{86} + 0.0552353u^{85} + \dots + 62.6495u + 13.8741 \\ 0.176593u^{86} - 0.0608853u^{85} + \dots - 15.4584u - 3.42540 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.0681336u^{86} - 0.709362u^{85} + \dots + 54.5898u + 49.3534 \\ -0.134816u^{86} + 0.459791u^{85} + \dots - 32.0043u - 32.4889 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0681336u^{86} - 0.709362u^{85} + \dots + 54.5898u + 49.3534 \\ -0.398582u^{86} + 0.178985u^{85} + \dots + 15.8456u - 8.54975 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.0666825u^{86} - 0.249571u^{85} + \dots + 22.5855u + 16.8646 \\ -0.134816u^{86} + 0.459791u^{85} + \dots - 32.0043u - 32.4889 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} u^{3} \\ u^{5} + u^{3} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.368646u^{86} - 0.527148u^{85} + \dots + 71.9013u + 40.4381 \\ -0.312704u^{86} + 0.0963934u^{85} + \dots + 15.1995u - 3.76857 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.439933u^{86} - 0.447080u^{85} + \dots + 58.1327u + 22.1757 \\ -0.0174712u^{86} + 0.0259493u^{85} + \dots + 58.1327u + 22.1757 \\ -0.0174712u^{86} + 0.0259493u^{85} + \dots + 41.4842u + 76.3652 \\ -0.00285224u^{86} - 0.0798040u^{85} + \dots + 8.17160u + 2.44523 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.00629905u^{86} 0.167117u^{85} + \cdots + 11.7485u + 43.8850$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{87} + 30u^{86} + \dots + 10u - 1$
c_2,c_5	$u^{87} + 4u^{86} + \dots + 2u + 1$
c_{3}, c_{9}	$u^{87} - u^{86} + \dots - 32u - 64$
c_6, c_8	$u^{87} - 3u^{86} + \dots + 313u - 73$
c_7, c_{11}, c_{12}	$u^{87} + 3u^{86} + \dots - u - 1$
c_{10}	$u^{87} - 35u^{86} + \dots - 44032u + 4096$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{87} + 58y^{86} + \dots + 94y - 1$
c_2, c_5	$y^{87} + 30y^{86} + \dots + 10y - 1$
c_{3}, c_{9}	$y^{87} + 35y^{86} + \dots - 44032y - 4096$
c_{6}, c_{8}	$y^{87} - 51y^{86} + \dots - 128331y - 5329$
c_7, c_{11}, c_{12}	$y^{87} + 73y^{86} + \dots - 19y - 1$
c_{10}	$y^{87} + 23y^{86} + \dots - 99614720y - 16777216$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.611285 + 0.788569I		
a = 0.917741 + 0.861333I	-3.36212 - 2.35337I	0
b = -0.082818 + 1.004170I		
u = 0.611285 - 0.788569I		
a = 0.917741 - 0.861333I	-3.36212 + 2.35337I	0
b = -0.082818 - 1.004170I		
u = 0.443560 + 0.899987I		
a = 0.644315 - 0.499952I	-2.47271 - 2.75618I	0
b = -0.526359 - 1.058500I		
u = 0.443560 - 0.899987I		
a = 0.644315 + 0.499952I	-2.47271 + 2.75618I	0
b = -0.526359 + 1.058500I		
u = 0.767266 + 0.648567I		
a = 1.04401 + 1.12977I	-6.09885 + 4.42777I	0
b = 0.055082 + 1.005560I		
u = 0.767266 - 0.648567I		
a = 1.04401 - 1.12977I	-6.09885 - 4.42777I	0
b = 0.055082 - 1.005560I		
u = 0.277378 + 0.974111I		
a = -1.10874 - 1.67118I	3.27239 + 1.34065I	0
b = 0.716351 + 0.750458I		
u = 0.277378 - 0.974111I		
a = -1.10874 + 1.67118I	3.27239 - 1.34065I	0
b = 0.716351 - 0.750458I		
u = 0.678907 + 0.702812I		
a = 0.769386 + 0.217668I	-4.66548 - 1.46210I	0. + 3.02931I
b = -0.650762 + 0.511807I		
u = 0.678907 - 0.702812I		
a = 0.769386 - 0.217668I	-4.66548 + 1.46210I	0 3.02931I
b = -0.650762 - 0.511807I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.768238 + 0.688700I		
a = 0.634804 + 0.441462I	-6.05440 - 3.49870I	0
b = -0.618764 + 1.016630I		
u = -0.768238 - 0.688700I		
a = 0.634804 - 0.441462I	-6.05440 + 3.49870I	0
b = -0.618764 - 1.016630I		
u = -1.008650 + 0.241433I		
a = 0.684736 - 0.311760I	0.50208 + 3.44185I	0
b = -0.725433 - 0.765619I		
u = -1.008650 - 0.241433I		
a = 0.684736 + 0.311760I	0.50208 - 3.44185I	0
b = -0.725433 + 0.765619I		
u = 0.426093 + 0.859319I		
a = -3.15793 - 0.28000I	-2.63778 - 0.82623I	4.00000 + 3.60231I
b = 0.652013 - 0.953417I		
u = 0.426093 - 0.859319I		
a = -3.15793 + 0.28000I	-2.63778 + 0.82623I	4.00000 - 3.60231I
b = 0.652013 + 0.953417I		
u = -0.695363 + 0.644567I		
a = 1.10625 - 1.01304I	-1.31652 - 0.83169I	1.65300 + 1.09851I
b = 0.026957 - 0.964064I		
u = -0.695363 - 0.644567I		
a = 1.10625 + 1.01304I	-1.31652 + 0.83169I	1.65300 - 1.09851I
b = 0.026957 + 0.964064I		
u = 0.520735 + 0.931628I		
a = 0.792847 + 0.788022I	-3.08368 - 2.00968I	0
b = -0.164125 + 1.058190I		
u = 0.520735 - 0.931628I		
a = 0.792847 - 0.788022I	-3.08368 + 2.00968I	0
b = -0.164125 - 1.058190I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.005790 + 0.366180I $a = 0.691862 + 0.291804I$	3.86176 + 0.42107I	0
b = -0.735938 + 0.721753I $u = 1.005790 - 0.366180I$		
a = 0.691862 - 0.291804I	3.86176 - 0.42107I	0
$\frac{b = -0.735938 - 0.721753I}{u = 1.006180 + 0.368157I}$		
a = 0.639735 - 0.387808I $b = -0.692514 - 0.944335I$	-0.04609 + 1.98521I	0
u = 1.006180 - 0.368157I $a = 0.639735 + 0.387808I$	-0.04609 - 1.98521I	0
b = -0.692514 + 0.944335I $u = -0.421885 + 0.985583I$		
a = -2.66540 + 0.10722I $b = 0.684806 + 0.957414I$	2.63586 + 4.03889I	0
	2.63586 - 4.03889I	0
b = 0.684806 - 0.957414I $u = -0.296732 + 1.041850I$	2.00000 1.000001	
a = 0.777629 - 0.073278I	0.964622 - 0.562642I	0
$\frac{b = -0.689752 - 0.183697I}{u = -0.296732 - 1.041850I}$		
a = 0.777629 + 0.073278I $b = -0.689752 + 0.183697I$	0.964622 + 0.562642I	0
u = -0.331769 + 0.849752I $a = 0.664057 + 0.509027I$	1.93817 - 0.98719I	8.58368 - 0.93595I
$\frac{b = -0.498045 + 1.039790I}{u = -0.331769 - 0.849752I}$		
a = 0.664057 - 0.509027I $b = -0.498045 - 1.039790I$	1.93817 + 0.98719I	8.58368 + 0.93595I

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.019790 + 0.453057I		
a = 0.692708 - 0.276370I	-0.55415 - 4.35219I	0
b = -0.751523 - 0.691973I		
u = -1.019790 - 0.453057I		
a = 0.692708 + 0.276370I	-0.55415 + 4.35219I	0
b = -0.751523 + 0.691973I		
u = 0.594895 + 0.947229I		
a = -0.324433 - 1.258840I	-3.92192 - 3.46935I	0
b = 0.746602 + 0.626637I		
u = 0.594895 - 0.947229I		
a = -0.324433 + 1.258840I	-3.92192 + 3.46935I	0
b = 0.746602 - 0.626637I		
u = 0.149465 + 0.867093I		
a = 0.686866 - 0.538383I	-1.54609 + 4.58317I	5.10158 - 4.29853I
b = -0.444261 - 1.034670I		
u = 0.149465 - 0.867093I		
a = 0.686866 + 0.538383I	-1.54609 - 4.58317I	5.10158 + 4.29853I
b = -0.444261 + 1.034670I		
u = 0.411198 + 1.044420I		
a = 0.765130 + 0.098490I	4.23995 - 3.36961I	0
b = -0.714320 + 0.248220I		
u = 0.411198 - 1.044420I		
a = 0.765130 - 0.098490I	4.23995 + 3.36961I	0
b = -0.714320 - 0.248220I		
u = -0.740949 + 0.850608I		
a = 0.826055 - 0.975867I	-9.58781 + 2.79623I	0
b = -0.041288 - 1.076880I		
u = -0.740949 - 0.850608I		
a = 0.826055 + 0.975867I	-9.58781 - 2.79623I	0
b = -0.041288 + 1.076880I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.446275 + 1.037880I		
a = -0.71304 + 1.33524I	2.32576 + 2.18173I	0
b = 0.757142 - 0.696856I		
u = -0.446275 - 1.037880I		
a = -0.71304 - 1.33524I	2.32576 - 2.18173I	0
b = 0.757142 + 0.696856I		
u = -1.026800 + 0.483421I		
a = 0.628167 + 0.397780I	3.09256 - 5.88380I	0
b = -0.692708 + 0.975062I		
u = -1.026800 - 0.483421I		
a = 0.628167 - 0.397780I	3.09256 + 5.88380I	0
b = -0.692708 - 0.975062I		
u = -0.233192 + 0.805989I		
a = -1.13555 + 2.48104I	-2.01462 - 4.26726I	5.97179 + 2.61130I
b = 0.652662 - 0.757523I		
u = -0.233192 - 0.805989I		
a = -1.13555 - 2.48104I	-2.01462 + 4.26726I	5.97179 - 2.61130I
b = 0.652662 + 0.757523I		
u = -0.488848 + 1.054160I		
a = 0.753394 - 0.112714I	-0.22381 + 7.35518I	0
b = -0.738176 - 0.286575I		
u = -0.488848 - 1.054160I		
a = 0.753394 + 0.112714I	-0.22381 - 7.35518I	0
b = -0.738176 + 0.286575I		
u = -0.607515 + 0.995263I		
a = 0.748024 - 0.842364I	-0.23467 + 5.86188I	0
b = -0.136497 - 1.103500I		
u = -0.607515 - 0.995263I		
a = 0.748024 + 0.842364I	-0.23467 - 5.86188I	0
b = -0.136497 + 1.103500I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.043830 + 0.551455I		
a = 0.620829 - 0.402944I	-1.46195 + 9.86196I	0
b = -0.694009 - 0.993135I		
u = 1.043830 - 0.551455I		
a = 0.620829 + 0.402944I	-1.46195 - 9.86196I	0
b = -0.694009 + 0.993135I		
u = 0.540953 + 1.061670I		
a = -2.32849 - 0.37630I	1.43879 - 7.72271I	0
b = 0.698997 - 0.991276I		
u = 0.540953 - 1.061670I		
a = -2.32849 + 0.37630I	1.43879 + 7.72271I	0
b = 0.698997 + 0.991276I		
u = -0.657070 + 0.997761I		
a = -2.30139 + 0.72609I	-5.07559 + 8.90900I	0
b = 0.677860 + 1.017760I		
u = -0.657070 - 0.997761I		
a = -2.30139 - 0.72609I	-5.07559 - 8.90900I	0
b = 0.677860 - 1.017760I		
u = 0.668410 + 0.428154I		
a = 0.670160 - 0.423926I	-0.45864 + 3.05031I	0.11561 - 3.71074I
b = -0.603421 - 0.947278I		
u = 0.668410 - 0.428154I		
a = 0.670160 + 0.423926I	-0.45864 - 3.05031I	0.11561 + 3.71074I
b = -0.603421 + 0.947278I		
u = 0.652989 + 1.019560I		
a = 0.726453 + 0.866754I	-4.94082 - 9.82420I	0
b = -0.122757 + 1.123020I		
u = 0.652989 - 1.019560I		
a = 0.726453 - 0.866754I	-4.94082 + 9.82420I	0
b = -0.122757 - 1.123020I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.527998 + 0.508519I		
a = 1.38834 + 0.49257I	-4.08095 - 1.96025I	-2.32551 + 3.82515I
b = 0.025988 + 0.717177I		
u = 0.527998 - 0.508519I		
a = 1.38834 - 0.49257I	-4.08095 + 1.96025I	-2.32551 - 3.82515I
b = 0.025988 - 0.717177I		
u = -0.250839 + 0.646005I		
a = 0.913229 - 0.095011I	0.322925 + 0.980399I	5.93960 - 6.62047I
b = -0.377028 - 0.231372I		
u = -0.250839 - 0.646005I		
a = 0.913229 + 0.095011I	0.322925 - 0.980399I	5.93960 + 6.62047I
b = -0.377028 + 0.231372I		
u = -0.561413 + 1.185130I		
a = -0.662931 + 0.987024I	3.53114 + 2.02176I	0
b = 0.824524 - 0.680211I		
u = -0.561413 - 1.185130I		
a = -0.662931 - 0.987024I	3.53114 - 2.02176I	0
b = 0.824524 + 0.680211I		
u = 0.029916 + 1.327490I		
a = -1.49885 - 0.68928I	6.54252 - 1.34989I	0
b = 0.804293 + 0.856431I		
u = 0.029916 - 1.327490I		
a = -1.49885 + 0.68928I	6.54252 + 1.34989I	0
b = 0.804293 - 0.856431I		
u = 0.047029 + 1.330660I		
a = -1.59556 + 0.59324I	10.37450 - 2.98463I	0
b = 0.798778 - 0.877711I		
u = 0.047029 - 1.330660I		
a = -1.59556 - 0.59324I	10.37450 + 2.98463I	0
b = 0.798778 + 0.877711I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.121603 + 1.328060I		
a = -1.68238 - 0.49161I	6.41712 + 7.31572I	0
b = 0.792331 + 0.897528I		
u = -0.121603 - 1.328060I		
a = -1.68238 + 0.49161I	6.41712 - 7.31572I	0
b = 0.792331 - 0.897528I		
u = 0.634374 + 1.173840I		
a = -2.00540 - 0.45132I	2.49663 - 7.82179I	0
b = 0.722792 - 1.019870I		
u = 0.634374 - 1.173840I		
a = -2.00540 + 0.45132I	2.49663 + 7.82179I	0
b = 0.722792 + 1.019870I		
u = 0.633489 + 1.184630I		
a = -0.577053 - 0.930602I	6.44169 - 6.28675I	0
b = 0.836929 + 0.657205I		
u = 0.633489 - 1.184630I		
a = -0.577053 + 0.930602I	6.44169 + 6.28675I	0
b = 0.836929 - 0.657205I		
u = -0.622610 + 0.177262I		
a = 0.884623 + 0.156178I	-2.55006 - 3.29913I	1.11145 + 2.49429I
b = 0.346087 - 0.160520I		
u = -0.622610 - 0.177262I		
a = 0.884623 - 0.156178I	-2.55006 + 3.29913I	1.11145 - 2.49429I
b = 0.346087 + 0.160520I		
u = -0.679060 + 1.174990I		
a = -0.522511 + 0.901931I	1.73423 + 10.47340I	0
b = 0.842463 - 0.641024I		
u = -0.679060 - 1.174990I		
a = -0.522511 - 0.901931I	1.73423 - 10.47340I	0
b = 0.842463 + 0.641024I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.696216 + 1.175180I		
a = -1.94109 + 0.54914I	5.29166 + 12.11040I	0
b = 0.720267 + 1.035200I		
u = -0.696216 - 1.175180I		
a = -1.94109 - 0.54914I	5.29166 - 12.11040I	0
b = 0.720267 - 1.035200I		
u = 0.733904 + 1.165900I		
a = -1.91300 - 0.61390I	0.5090 - 16.2964I	0
b = 0.716303 - 1.044050I		
u = 0.733904 - 1.165900I		
a = -1.91300 + 0.61390I	0.5090 + 16.2964I	0
b = 0.716303 + 1.044050I		
u = -0.509418 + 0.232441I		
a = 0.763520 - 0.371468I	0.16334 + 1.55638I	-0.76791 - 2.56835I
b = -0.541403 - 0.775770I		
u = -0.509418 - 0.232441I		
a = 0.763520 + 0.371468I	0.16334 - 1.55638I	-0.76791 + 2.56835I
b = -0.541403 + 0.775770I		
u = 0.557201		
a = 0.897719	1.51878	6.53030
b = 0.285348		

II.
$$I_1^v = \langle a, \ v^4 + v^3 + v^2 + b + v + 1, \ v^6 + v^5 + v^4 + 2v^3 + v^2 + 1 \rangle$$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} v \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 0 \\ -v^{4} - v^{3} - v^{2} - v - 1 \end{pmatrix}$$

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

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

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

$$a_{9} = \begin{pmatrix} v \\ 0 \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} -v^{4} - v \\ -v^{4} - v^{3} - v^{2} - v \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -v^{5} - v^{4} - v \\ -v^{5} - v^{4} - v^{3} - v^{2} - v \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} v \\ v^{4} + v^{3} + v \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-4v^5 9v^4 9v^3 8v^2 6v + 1$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4, c_5	$(u^2 - u + 1)^3$
c_2	$(u^2 + u + 1)^3$
c_3, c_9, c_{10}	u^6
c_6, c_8	$(u^3 - u^2 + 1)^2$
C ₇	$(u^3 + u^2 + 2u + 1)^2$
c_{11}, c_{12}	$(u^3 - u^2 + 2u - 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4 c_5	$(y^2 + y + 1)^3$
c_3, c_9, c_{10}	y^6
c_{6}, c_{8}	$(y^3 - y^2 + 2y - 1)^2$
c_7, c_{11}, c_{12}	$(y^3 + 3y^2 + 2y - 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^v	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
v = 0.206350 + 1.132320I		
a = 0	-3.02413 - 4.85801I	-1.45566 + 6.64456I
b = -0.500000 + 0.866025I		
v = 0.206350 - 1.132320I		
a = 0	-3.02413 + 4.85801I	-1.45566 - 6.64456I
b = -0.500000 - 0.866025I		
v = -1.083790 + 0.387453I		
a = 0	-3.02413 + 0.79824I	2.09851 + 0.12339I
b = -0.500000 + 0.866025I		
v = -1.083790 - 0.387453I		
a = 0	-3.02413 - 0.79824I	2.09851 - 0.12339I
b = -0.500000 - 0.866025I		
v = 0.377439 + 0.653743I		
a = 0	1.11345 + 2.02988I	5.85715 - 4.49037I
b = -0.500000 - 0.866025I		
v = 0.377439 - 0.653743I		
a = 0	1.11345 - 2.02988I	5.85715 + 4.49037I
b = -0.500000 + 0.866025I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1, c_4	$((u^2 - u + 1)^3)(u^{87} + 30u^{86} + \dots + 10u - 1)$
c_2	$((u^2 + u + 1)^3)(u^{87} + 4u^{86} + \dots + 2u + 1)$
c_3,c_9	$u^6(u^{87} - u^{86} + \dots - 32u - 64)$
c_5	$((u^2 - u + 1)^3)(u^{87} + 4u^{86} + \dots + 2u + 1)$
c_6, c_8	$((u^3 - u^2 + 1)^2)(u^{87} - 3u^{86} + \dots + 313u - 73)$
c ₇	$((u^3 + u^2 + 2u + 1)^2)(u^{87} + 3u^{86} + \dots - u - 1)$
c_{10}	$u^6(u^{87} - 35u^{86} + \dots - 44032u + 4096)$
c_{11}, c_{12}	$((u^3 - u^2 + 2u - 1)^2)(u^{87} + 3u^{86} + \dots - u - 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$((y^2 + y + 1)^3)(y^{87} + 58y^{86} + \dots + 94y - 1)$
c_2,c_5	$((y^2 + y + 1)^3)(y^{87} + 30y^{86} + \dots + 10y - 1)$
c_3, c_9	$y^6(y^{87} + 35y^{86} + \dots - 44032y - 4096)$
c_6, c_8	$((y^3 - y^2 + 2y - 1)^2)(y^{87} - 51y^{86} + \dots - 128331y - 5329)$
c_7, c_{11}, c_{12}	$((y^3 + 3y^2 + 2y - 1)^2)(y^{87} + 73y^{86} + \dots - 19y - 1)$
c_{10}	$y^{6}(y^{87} + 23y^{86} + \dots - 9.96147 \times 10^{7}y - 1.67772 \times 10^{7})$