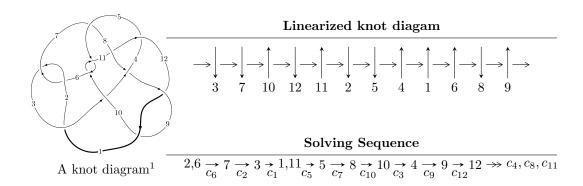
$12a_{0662} \ (K12a_{0662})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.04261 \times 10^{439} u^{151} - 3.12955 \times 10^{439} u^{150} + \dots + 2.44939 \times 10^{439} b + 4.79597 \times 10^{441}, \\ &- 1.78662 \times 10^{442} u^{151} - 2.88167 \times 10^{442} u^{150} + \dots + 8.98925 \times 10^{441} a + 2.77990 \times 10^{444}, \\ &u^{152} + u^{151} + \dots - 1379 u + 367 \rangle \\ I_2^u &= \langle -26479 u^{31} + 2745 u^{30} + \dots + 5497 b - 38311, \\ &- 1129966 u^{31} + 188660 u^{30} + \dots + 159413 a - 2101975, \ u^{32} - 8 u^{30} + \dots + 3 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 184 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.
$$I_1^u = \langle -1.04 \times 10^{439} u^{151} - 3.13 \times 10^{439} u^{150} + \dots + 2.45 \times 10^{439} b + 4.80 \times 10^{441}, \ -1.79 \times 10^{442} u^{151} - 2.88 \times 10^{442} u^{150} + \dots + 8.99 \times 10^{441} a + 2.78 \times 10^{444}, \ u^{152} + u^{151} + \dots - 1379 u + 367 \rangle$$

(i) Arc colorings

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

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 1.98751u^{151} + 3.20568u^{150} + \dots + 893.382u - 309.247 \\ 0.425661u^{151} + 1.27769u^{150} + \dots + 879.144u - 195.803 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -2.24943u^{151} - 3.02574u^{150} + \dots + 748.892u - 227.347 \\ 0.4070u^{151} + 3.85778u^{150} + \dots + 748.892u - 227.347 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.362640u^{151} + 1.75754u^{150} + \dots - 1835.38u + 869.212 \\ -1.07197u^{151} - 1.99089u^{150} + \dots - 638.367u + 196.579 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.56185u^{151} + 1.92800u^{150} + \dots + 14.2386u - 113.444 \\ 0.425661u^{151} + 1.27769u^{150} + \dots + 879.144u - 195.803 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -4.72164u^{151} - 10.0286u^{150} + \dots + 879.144u - 195.803 \\ -2.42859u^{151} - 5.41972u^{150} + \dots - 5128.46u + 1430.34 \\ -2.42859u^{151} - 5.41972u^{150} + \dots - 1817.077u - 418.112 \\ 0.252785u^{151} + 0.661844u^{150} + \dots + 917.177u - 418.112 \\ 0.252785u^{151} + 5.52351u^{150} + \dots + 1817.01u + 740.392 \\ 0.240114u^{151} + 5.52351u^{150} + \dots - 1817.01u + 740.392 \\ 0.240114u^{151} + 0.0307253u^{150} + \dots + 1184.40u - 370.130 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-9.05646u^{151} 13.2640u^{150} + \cdots + 563.221u + 212.918$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{152} + 63u^{151} + \dots + 4922785u + 134689$
c_2, c_6	$u^{152} - u^{151} + \dots + 1379u + 367$
c_3	$u^{152} + u^{151} + \dots + 589492u + 19909$
c_4	$u^{152} + 4u^{151} + \dots + 5694u + 7057$
c_5, c_{10}	$u^{152} + u^{151} + \dots - 226661u + 18163$
c_7	$u^{152} - 9u^{151} + \dots - 50u + 1$
c ₈	$u^{152} - 4u^{151} + \dots + 22u + 1$
c_9, c_{12}	$u^{152} - 3u^{151} + \dots - 2650u + 223$
c_{11}	$u^{152} + 7u^{151} + \dots + 59968u + 7903$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{152} + 61y^{151} + \dots + 143171208307y + 18141126721$
c_2, c_6	$y^{152} - 63y^{151} + \dots - 4922785y + 134689$
<i>c</i> ₃	$y^{152} - 27y^{151} + \dots - 116608221282y + 396368281$
c_4	$y^{152} + 38y^{151} + \dots + 3402431974y + 49801249$
c_5,c_{10}	$y^{152} + 105y^{151} + \dots - 5729591991y + 329894569$
c_7	$y^{152} - 5y^{151} + \dots - 68y + 1$
c_8	$y^{152} - 8y^{151} + \dots - 22y + 1$
c_9, c_{12}	$y^{152} - 119y^{151} + \dots - 2364476y + 49729$
c_{11}	$y^{152} - 39y^{151} + \dots - 5965053662y + 62457409$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.976618 + 0.216947I		
a = -0.10966 - 2.80122I	-7.74674 + 0.74291I	0
b = 0.02771 - 1.44061I		
u = -0.976618 - 0.216947I		
a = -0.10966 + 2.80122I	-7.74674 - 0.74291I	0
b = 0.02771 + 1.44061I		
u = -0.865113 + 0.510791I		
a = -0.91463 + 2.22114I	-1.47039 + 2.06741I	0
b = -0.08851 + 1.63090I		
u = -0.865113 - 0.510791I		
a = -0.91463 - 2.22114I	-1.47039 - 2.06741I	0
b = -0.08851 - 1.63090I		
u = 0.572612 + 0.830099I		
a = 0.342921 - 0.154395I	-0.28796 + 5.49864I	0
b = -0.540329 - 1.235470I		
u = 0.572612 - 0.830099I		
a = 0.342921 + 0.154395I	-0.28796 - 5.49864I	0
b = -0.540329 + 1.235470I		
u = -0.804913 + 0.577587I		
a = 1.36576 - 1.94031I	2.90265 - 0.91653I	0
b = -1.00500 - 1.39736I		
u = -0.804913 - 0.577587I		
a = 1.36576 + 1.94031I	2.90265 + 0.91653I	0
b = -1.00500 + 1.39736I		
u = -1.007170 + 0.071305I		
a = -0.66068 + 2.50970I	-8.06070 - 0.34368I	0
b = -0.16176 + 1.55220I		
u = -1.007170 - 0.071305I		
a = -0.66068 - 2.50970I	-8.06070 + 0.34368I	0
b = -0.16176 - 1.55220I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.862567 + 0.483048I		
a = 1.66883 + 0.68631I	-1.62821 - 1.97022I	0
b = -0.224587 + 1.223930I		
u = 0.862567 - 0.483048I		
a = 1.66883 - 0.68631I	-1.62821 + 1.97022I	0
b = -0.224587 - 1.223930I		
u = -0.745359 + 0.636841I		
a = 0.502927 - 0.311138I	2.57935 + 0.80193I	0
b = -0.772595 - 0.278417I		
u = -0.745359 - 0.636841I		
a = 0.502927 + 0.311138I	2.57935 - 0.80193I	0
b = -0.772595 + 0.278417I		
u = 0.851678 + 0.564295I		
a = -0.740309 + 0.501044I	2.45684 + 3.76901I	0
b = 0.530138 + 1.114300I		
u = 0.851678 - 0.564295I		
a = -0.740309 - 0.501044I	2.45684 - 3.76901I	0
b = 0.530138 - 1.114300I		
u = -0.919952 + 0.329313I		
a = -1.173450 - 0.011749I	-2.58832 + 3.84915I	0
b = 0.100577 - 0.324560I		
u = -0.919952 - 0.329313I		
a = -1.173450 + 0.011749I	-2.58832 - 3.84915I	0
b = 0.100577 + 0.324560I		
u = 0.864184 + 0.552906I		
a = 2.26119 + 2.71298I	2.42176 - 8.23014I	0
b = -0.379127 + 1.199260I		
u = 0.864184 - 0.552906I		
a = 2.26119 - 2.71298I	2.42176 + 8.23014I	0
b = -0.379127 - 1.199260I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.849802 + 0.580022I		
a = -1.25646 - 2.10652I	3.69053 - 3.19749I	0
b = 0.180753 - 1.091820I		
u = 0.849802 - 0.580022I		
a = -1.25646 + 2.10652I	3.69053 + 3.19749I	0
b = 0.180753 + 1.091820I		
u = 0.850752 + 0.584637I		
a = 0.074575 - 1.074680I	3.68435 - 1.42902I	0
b = -0.449062 - 0.991318I		
u = 0.850752 - 0.584637I		
a = 0.074575 + 1.074680I	3.68435 + 1.42902I	0
b = -0.449062 + 0.991318I		
u = 0.639559 + 0.812305I		
a = 0.277848 + 0.749378I	7.08155 + 7.79782I	0
b = -1.131630 - 0.010331I		
u = 0.639559 - 0.812305I		
a = 0.277848 - 0.749378I	7.08155 - 7.79782I	0
b = -1.131630 + 0.010331I		
u = -0.950501 + 0.161280I		
a = 0.455484 + 0.011996I	0.83341 + 7.86376I	0
b = 0.708579 + 0.554908I		
u = -0.950501 - 0.161280I		
a = 0.455484 - 0.011996I	0.83341 - 7.86376I	0
b = 0.708579 - 0.554908I		
u = 0.660685 + 0.804281I		
a = -0.460261 - 0.955987I	7.04453 + 0.84251I	0
b = 0.803987 - 0.508923I		
u = 0.660685 - 0.804281I		
a = -0.460261 + 0.955987I	7.04453 - 0.84251I	0
b = 0.803987 + 0.508923I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.950182 + 0.465480I		
a = 0.094286 + 0.516746I	-1.71761 - 1.68861I	0
b = 0.296626 + 0.481035I		
u = 0.950182 - 0.465480I		
a = 0.094286 - 0.516746I	-1.71761 + 1.68861I	0
b = 0.296626 - 0.481035I		
u = -0.406856 + 0.845498I		
a = -0.032963 - 0.295662I	-2.50384 - 8.49483I	0
b = 0.56540 - 1.31168I		
u = -0.406856 - 0.845498I		
a = -0.032963 + 0.295662I	-2.50384 + 8.49483I	0
b = 0.56540 + 1.31168I		
u = -0.887774 + 0.582678I		
a = 0.935153 + 0.083120I	2.63555 + 5.53579I	0
b = 1.22014 - 1.26923I		
u = -0.887774 - 0.582678I		
a = 0.935153 - 0.083120I	2.63555 - 5.53579I	0
b = 1.22014 + 1.26923I		
u = -0.818657 + 0.450572I		
a = -3.28553 + 1.87639I	1.74623 - 4.46561I	0
b = -0.059830 + 0.982360I		
u = -0.818657 - 0.450572I		
a = -3.28553 - 1.87639I	1.74623 + 4.46561I	0
b = -0.059830 - 0.982360I		
u = 0.823901 + 0.681823I		
a = -1.19203 - 1.20702I	2.85259 - 2.62751I	0
b = -0.12432 - 1.63512I		
u = 0.823901 - 0.681823I		
a = -1.19203 + 1.20702I	2.85259 + 2.62751I	0
b = -0.12432 + 1.63512I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.926283		
a = 0.854247	-1.61290	0
b = 0.760609		
u = -0.977472 + 0.473192I		
a = 0.938151 - 0.165156I	1.20459 + 8.18013I	0
b = -0.011295 + 0.587086I		
u = -0.977472 - 0.473192I		
a = 0.938151 + 0.165156I	1.20459 - 8.18013I	0
b = -0.011295 - 0.587086I		
u = -0.649188 + 0.876413I		
a = -0.238761 + 0.471482I	7.68334 + 0.25660I	0
b = 0.736869 + 0.099610I		
u = -0.649188 - 0.876413I		
a = -0.238761 - 0.471482I	7.68334 - 0.25660I	0
b = 0.736869 - 0.099610I		
u = -0.805819 + 0.748960I		
a = 0.105328 - 1.206030I	5.12004 + 4.30665I	0
b = -0.634172 + 0.360662I		
u = -0.805819 - 0.748960I		
a = 0.105328 + 1.206030I	5.12004 - 4.30665I	0
b = -0.634172 - 0.360662I		
u = 0.939555 + 0.575189I		
a = -0.274937 + 1.214310I	0.35184 - 6.84298I	0
b = -1.53346 + 0.18549I		
u = 0.939555 - 0.575189I		
a = -0.274937 - 1.214310I	0.35184 + 6.84298I	0
b = -1.53346 - 0.18549I		
u = 0.458825 + 0.763650I		
a = -1.047300 + 0.514506I	1.08065 + 4.08048I	0
b = 0.037737 + 1.087970I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.458825 - 0.763650I		
a = -1.047300 - 0.514506I	1.08065 - 4.08048I	0
b = 0.037737 - 1.087970I		
u = 0.539514 + 0.699005I		
a = 0.206542 - 0.079255I	-3.17732 + 1.39405I	0
b = 0.536198 + 1.293110I		
u = 0.539514 - 0.699005I		
a = 0.206542 + 0.079255I	-3.17732 - 1.39405I	0
b = 0.536198 - 1.293110I		
u = 0.703112 + 0.534095I		
a = -0.071455 - 1.308950I	1.08035 + 2.31080I	0
b = 1.344760 - 0.215123I		
u = 0.703112 - 0.534095I		
a = -0.071455 + 1.308950I	1.08035 - 2.31080I	0
b = 1.344760 + 0.215123I		
u = -0.537922 + 0.983429I		
a = 0.048509 + 0.489775I	2.81822 - 13.64750I	0
b = -0.54128 + 1.35705I		
u = -0.537922 - 0.983429I		
a = 0.048509 - 0.489775I	2.81822 + 13.64750I	0
b = -0.54128 - 1.35705I		
u = 0.878444		
a = 0.765301	-1.64970	0
b = 0.512720		
u = -1.009080 + 0.491975I		
a = -1.03079 + 2.15983I	-2.60289 + 6.20359I	0
b = 0.87359 + 1.38392I		
u = -1.009080 - 0.491975I		
a = -1.03079 - 2.15983I	-2.60289 - 6.20359I	0
b = 0.87359 - 1.38392I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.427475 + 1.040220I		
a = -0.056678 + 0.787178I	4.32849 + 3.82697I	0
b = 0.372426 + 1.198790I		
u = 0.427475 - 1.040220I		
a = -0.056678 - 0.787178I	4.32849 - 3.82697I	0
b = 0.372426 - 1.198790I		
u = -0.918955 + 0.650665I		
a = 0.077171 + 0.811335I	2.06466 + 4.23388I	0
b = 0.754789 - 0.079899I		
u = -0.918955 - 0.650665I		
a = 0.077171 - 0.811335I	2.06466 - 4.23388I	0
b = 0.754789 + 0.079899I		
u = 1.063870 + 0.369962I		
a = 1.31086 + 1.33153I	-3.28779 - 0.28143I	0
b = 0.42212 + 1.42825I		
u = 1.063870 - 0.369962I		
a = 1.31086 - 1.33153I	-3.28779 + 0.28143I	0
b = 0.42212 - 1.42825I		
u = -0.669425 + 0.556263I		
a = 1.39519 - 0.74758I	2.53454 - 0.28463I	0
b = -0.769467 - 0.429201I		
u = -0.669425 - 0.556263I		
a = 1.39519 + 0.74758I	2.53454 + 0.28463I	0
b = -0.769467 + 0.429201I		
u = -0.960743 + 0.609210I		
a = 0.028076 + 0.866700I	1.65873 + 5.03382I	0
b = 1.102640 - 0.252664I		
u = -0.960743 - 0.609210I		
a = 0.028076 - 0.866700I	1.65873 - 5.03382I	0
b = 1.102640 + 0.252664I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.475350 + 1.035040I		
a = -0.060496 - 0.461301I	5.61630 - 5.52289I	0
b = 0.452078 - 0.961673I		
u = -0.475350 - 1.035040I		
a = -0.060496 + 0.461301I	5.61630 + 5.52289I	0
b = 0.452078 + 0.961673I		
u = -1.069980 + 0.399619I		
a = 1.48760 - 1.98942I	-3.47061 - 1.39309I	0
b = 0.030102 - 1.047000I		
u = -1.069980 - 0.399619I		
a = 1.48760 + 1.98942I	-3.47061 + 1.39309I	0
b = 0.030102 + 1.047000I		
u = 0.046085 + 0.855577I		
a = -0.239658 - 0.787458I	4.31998 - 4.77119I	0
b = -0.297747 - 0.177190I		
u = 0.046085 - 0.855577I		
a = -0.239658 + 0.787458I	4.31998 + 4.77119I	0
b = -0.297747 + 0.177190I		
u = -1.150540 + 0.033163I		
a = 0.04175 + 2.34065I	-6.47670 + 4.16409I	0
b = 0.327382 + 1.370250I		
u = -1.150540 - 0.033163I		
a = 0.04175 - 2.34065I	-6.47670 - 4.16409I	0
b = 0.327382 - 1.370250I		
u = -0.764698 + 0.354028I		
a = -0.694778 - 0.393450I	-1.48089 - 2.58427I	0
b = -1.06922 + 0.98003I		
u = -0.764698 - 0.354028I		
a = -0.694778 + 0.393450I	-1.48089 + 2.58427I	0
b = -1.06922 - 0.98003I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.931412 + 0.706267I		
a = -0.735829 + 0.157932I	4.71540 + 1.23998I	0
b = 0.813993 + 0.382368I		
u = -0.931412 - 0.706267I		
a = -0.735829 - 0.157932I	4.71540 - 1.23998I	0
b = 0.813993 - 0.382368I		
u = 0.479078 + 0.677748I		
a = 0.511177 + 0.249312I	-1.05102 - 2.47699I	0
b = -0.215463 + 1.061590I		
u = 0.479078 - 0.677748I		
a = 0.511177 - 0.249312I	-1.05102 + 2.47699I	0
b = -0.215463 - 1.061590I		
u = 0.462726 + 0.668814I		
a = 0.480800 + 0.040833I	-3.50685 + 0.66121I	0
b = 0.021718 - 1.074260I		
u = 0.462726 - 0.668814I		
a = 0.480800 - 0.040833I	-3.50685 - 0.66121I	0
b = 0.021718 + 1.074260I		
u = 1.044590 + 0.583400I		
a = -1.75741 - 1.11724I	-5.17008 - 5.51409I	0
b = 0.187605 - 1.144610I		
u = 1.044590 - 0.583400I		
a = -1.75741 + 1.11724I	-5.17008 + 5.51409I	0
b = 0.187605 + 1.144610I		
u = -0.885638 + 0.811835I		
a = 0.609964 + 0.376082I	5.00003 + 3.02886I	0
b = -0.051715 - 0.915336I		
u = -0.885638 - 0.811835I		
a = 0.609964 - 0.376082I	5.00003 - 3.02886I	0
b = -0.051715 + 0.915336I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.030060 + 0.623389I		
a = 1.33548 + 1.65672I	-4.59816 - 6.49408I	0
b = -0.62080 + 1.50727I		
u = 1.030060 - 0.623389I		
a = 1.33548 - 1.65672I	-4.59816 + 6.49408I	0
b = -0.62080 - 1.50727I		
u = 1.195750 + 0.212199I		
a = 0.089352 - 0.369095I	0.013101 + 0.934312I	0
b = -0.197353 - 0.034124I		
u = 1.195750 - 0.212199I		
a = 0.089352 + 0.369095I	0.013101 - 0.934312I	0
b = -0.197353 + 0.034124I		
u = 1.068640 + 0.581893I		
a = -1.30648 - 2.15328I	-1.85136 - 8.54719I	0
b = 0.398500 - 1.302870I		
u = 1.068640 - 0.581893I		
a = -1.30648 + 2.15328I	-1.85136 + 8.54719I	0
b = 0.398500 + 1.302870I		
u = -1.096240 + 0.528676I		
a = -0.86983 + 1.69195I	-1.47654 + 5.76364I	0
b = 0.611574 + 0.963903I		
u = -1.096240 - 0.528676I		
a = -0.86983 - 1.69195I	-1.47654 - 5.76364I	0
b = 0.611574 - 0.963903I		
u = -1.208030 + 0.158012I		
a = 0.31166 + 2.70295I	-4.11234 - 1.67628I	0
b = -0.020873 + 1.299230I		
u = -1.208030 - 0.158012I		
a = 0.31166 - 2.70295I	-4.11234 + 1.67628I	0
b = -0.020873 - 1.299230I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.011760 + 0.683000I		
a = -0.283999 + 0.168373I	5.96030 - 6.42997I	0
b = -0.975347 - 0.359499I		
u = 1.011760 - 0.683000I		
a = -0.283999 - 0.168373I	5.96030 + 6.42997I	0
b = -0.975347 + 0.359499I		
u = 0.471037 + 0.610388I		
a = 0.360659 - 0.851607I	-0.10257 + 3.76623I	0
b = -0.459416 - 1.141250I		
u = 0.471037 - 0.610388I		
a = 0.360659 + 0.851607I	-0.10257 - 3.76623I	0
b = -0.459416 + 1.141250I		
u = -0.770484 + 0.026292I		
a = 0.693935 + 0.382307I	1.55723 + 1.68948I	0
b = -0.614336 - 0.339169I		
u = -0.770484 - 0.026292I		
a = 0.693935 - 0.382307I	1.55723 - 1.68948I	0
b = -0.614336 + 0.339169I		
u = 1.027250 + 0.690330I		
a = 0.053458 - 0.908307I	5.8970 - 13.4381I	0
b = 1.270730 - 0.147980I		
u = 1.027250 - 0.690330I		
a = 0.053458 + 0.908307I	5.8970 + 13.4381I	0
b = 1.270730 + 0.147980I		
u = -0.706699 + 1.022180I		
a = -0.147227 + 0.424050I	-0.64713 + 4.08707I	0
b = 0.145519 + 0.996926I		
u = -0.706699 - 1.022180I		
a = -0.147227 - 0.424050I	-0.64713 - 4.08707I	0
b = 0.145519 - 0.996926I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.243760 + 0.073901I		
a = -0.55855 - 2.02986I	-8.27641 + 5.84072I	0
b = -0.288792 - 1.358460I		
u = 1.243760 - 0.073901I		
a = -0.55855 + 2.02986I	-8.27641 - 5.84072I	0
b = -0.288792 + 1.358460I		
u = 1.090600 + 0.635158I		
a = 1.93058 + 1.36640I	-0.75512 - 9.40312I	0
b = -0.168254 + 1.127970I		
u = 1.090600 - 0.635158I		
a = 1.93058 - 1.36640I	-0.75512 + 9.40312I	0
b = -0.168254 - 1.127970I		
u = -1.034360 + 0.725967I		
a = 0.035860 - 0.515236I	6.49748 + 5.66621I	0
b = -0.826475 - 0.094139I		
u = -1.034360 - 0.725967I		
a = 0.035860 + 0.515236I	6.49748 - 5.66621I	0
b = -0.826475 + 0.094139I		
u = 1.067790 + 0.684109I		
a = -1.48351 - 1.52576I	-1.78087 - 11.16920I	0
b = 0.60610 - 1.31730I		
u = 1.067790 - 0.684109I		
a = -1.48351 + 1.52576I	-1.78087 + 11.16920I	0
b = 0.60610 + 1.31730I		
u = -1.115660 + 0.628004I		
a = 1.14931 - 1.85790I	-4.6053 + 13.9382I	0
b = -0.61624 - 1.45749I		
u = -1.115660 - 0.628004I		
a = 1.14931 + 1.85790I	-4.6053 - 13.9382I	0
b = -0.61624 + 1.45749I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.106070 + 0.667405I		
a = 0.86430 + 1.28666I	-2.38114 - 2.96247I	0
b = -0.096832 + 1.181380I		
u = 1.106070 - 0.667405I		
a = 0.86430 - 1.28666I	-2.38114 + 2.96247I	0
b = -0.096832 - 1.181380I		
u = -0.335561 + 1.288140I		
a = 0.043317 - 0.657021I	1.77309 + 6.88474I	0
b = -0.194413 - 1.116690I		
u = -0.335561 - 1.288140I		
a = 0.043317 + 0.657021I	1.77309 - 6.88474I	0
b = -0.194413 + 1.116690I		
u = 1.330430 + 0.121722I		
a = 0.07052 - 2.09110I	-4.73899 - 11.22810I	0
b = 0.303332 - 1.355630I		
u = 1.330430 - 0.121722I		
a = 0.07052 + 2.09110I	-4.73899 + 11.22810I	0
b = 0.303332 + 1.355630I		
u = -1.135830 + 0.718751I		
a = -1.21812 + 1.72414I	0.9517 + 19.8390I	0
b = 0.57042 + 1.44790I		
u = -1.135830 - 0.718751I		
a = -1.21812 - 1.72414I	0.9517 - 19.8390I	0
b = 0.57042 - 1.44790I		
u = 0.641706 + 0.066496I		
a = -0.20517 - 1.64497I	0.68857 + 2.10355I	0 3.94558I
b = 0.864414 - 0.645608I		
u = 0.641706 - 0.066496I		
a = -0.20517 + 1.64497I	0.68857 - 2.10355I	0. + 3.94558I
b = 0.864414 + 0.645608I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.161540 + 0.714210I		
a = 0.87176 - 1.47173I	3.49320 + 11.79610I	0
b = -0.530899 - 1.134910I		
u = -1.161540 - 0.714210I		
a = 0.87176 + 1.47173I	3.49320 - 11.79610I	0
b = -0.530899 + 1.134910I		
u = -0.240566 + 0.582744I		
a = 0.523679 + 0.256251I	0.82721 - 1.34235I	5.04365 + 4.25840I
b = -0.495624 + 0.653225I		
u = -0.240566 - 0.582744I		
a = 0.523679 - 0.256251I	0.82721 + 1.34235I	5.04365 - 4.25840I
b = -0.495624 - 0.653225I		
u = 1.338070 + 0.308757I		
a = 0.28460 + 1.54075I	-2.83409 - 2.36436I	0
b = -0.012825 + 1.078030I		
u = 1.338070 - 0.308757I		
a = 0.28460 - 1.54075I	-2.83409 + 2.36436I	0
b = -0.012825 - 1.078030I		
u = 1.182530 + 0.702549I		
a = 1.07612 + 1.79385I	2.00693 - 10.07090I	0
b = -0.386286 + 1.340960I		
u = 1.182530 - 0.702549I		
a = 1.07612 - 1.79385I	2.00693 + 10.07090I	0
b = -0.386286 - 1.340960I		
u = -0.554682 + 0.285078I		
a = 2.31767 + 0.13868I	2.38892 - 0.23468I	4.97576 - 5.77487I
b = -0.338948 - 0.202228I		
u = -0.554682 - 0.285078I		
a = 2.31767 - 0.13868I	2.38892 + 0.23468I	4.97576 + 5.77487I
b = -0.338948 + 0.202228I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.322587 + 0.530874I		
a = 0.459929 + 1.014170I	0.26511 - 1.89120I	1.41722 + 2.98387I
b = 0.393038 + 0.502379I		
u = 0.322587 - 0.530874I		
a = 0.459929 - 1.014170I	0.26511 + 1.89120I	1.41722 - 2.98387I
b = 0.393038 - 0.502379I		
u = -1.25998 + 0.73185I		
a = -0.829599 + 1.084760I	-2.47978 + 2.90692I	0
b = 0.045838 + 1.014070I		
u = -1.25998 - 0.73185I		
a = -0.829599 - 1.084760I	-2.47978 - 2.90692I	0
b = 0.045838 - 1.014070I		
u = 1.09884 + 0.96161I		
a = -0.683291 - 0.914299I	-0.97027 - 3.80685I	0
b = 0.121174 - 1.288090I		
u = 1.09884 - 0.96161I		
a = -0.683291 + 0.914299I	-0.97027 + 3.80685I	0
b = 0.121174 + 1.288090I		
u = 0.456728 + 0.116700I		
a = -3.55119 + 0.05805I	1.43103 - 3.00743I	-4.75841 + 2.23933I
b = -0.454594 - 0.970457I		
u = 0.456728 - 0.116700I		
a = -3.55119 - 0.05805I	1.43103 + 3.00743I	-4.75841 - 2.23933I
b = -0.454594 + 0.970457I		
u = -1.52623 + 0.17082I		
a = 0.24299 - 1.77972I	-3.36742 - 0.16093I	0
b = -0.035262 - 1.194020I		
u = -1.52623 - 0.17082I		
a = 0.24299 + 1.77972I	-3.36742 + 0.16093I	0
b = -0.035262 + 1.194020I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.158281 + 0.427989I		
a = 1.086780 - 0.042665I	-0.68140 - 3.01480I	-2.32087 + 2.32409I
b = -0.521113 + 1.108420I		
u = 0.158281 - 0.427989I		
a = 1.086780 + 0.042665I	-0.68140 + 3.01480I	-2.32087 - 2.32409I
b = -0.521113 - 1.108420I		

II.
$$I_2^u = \langle -26479u^{31} + 2745u^{30} + \dots + 5497b - 38311, \ -1.13 \times 10^6u^{31} + 1.89 \times 10^5u^{30} + \dots + 1.59 \times 10^5a - 2.10 \times 10^6, \ u^{32} - 8u^{30} + \dots + 3u + 1 \rangle$$

(i) Arc colorings

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

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 7.08829u^{31} - 1.18347u^{30} + \dots + 10.7329u + 13.1857 \\ 4.81699u^{31} - 0.499363u^{30} + \dots + 10.6927u + 6.96944 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 5.06478u^{31} - 3.60217u^{30} + \dots + 5.91296u + 6.17980 \\ u^{31} - 7u^{29} + \dots - u - 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1.50828u^{31} - 3.22222u^{30} + \dots + 14.2575u + 5.80456 \\ -0.690847u^{31} - 1.07743u^{30} + \dots + 7.17233u + 3.37171 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.27130u^{31} - 0.684104u^{30} + \dots + 0.0401598u + 6.21628 \\ 4.81699u^{31} - 0.499363u^{30} + \dots + 10.6927u + 6.96944 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -13.0576u^{31} + 8.38066u^{30} + \dots - 39.4981u - 23.8923 \\ -1.49838u^{31} + 1.52009u^{30} + \dots - 7.76350u - 3.44705 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 2.06651u^{31} + 0.244610u^{30} + \dots + 0.721792u + 6.60355 \\ 4.07169u^{31} - 0.584074u^{30} + \dots + 8.63086u + 6.44935 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.758345u^{31} + 2.62563u^{30} + \dots + 7.30234u + 8.45269 \\ 1.76754u^{31} - 0.405632u^{30} + \dots + 7.30234u + 8.45269 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{6294202}{159413}u^{31} - \frac{3055909}{159413}u^{30} + \dots + \frac{12713037}{159413}u + \frac{8598992}{159413}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{32} - 16u^{31} + \dots - 13u + 1$
c_2	$u^{32} - 8u^{30} + \dots - 3u + 1$
c_3	$u^{32} - 6u^{30} + \dots - 4u + 1$
c_4	$u^{32} - u^{31} + \dots + 15u^2 + 1$
<i>C</i> ₅	$u^{32} + 12u^{30} + \dots + 5u + 1$
	$u^{32} - 8u^{30} + \dots + 3u + 1$
	$u^{32} + 2u^{31} + \dots - 8u + 1$
c ₈	$u^{32} - u^{31} + \dots - 4u + 1$
<i>c</i> ₉	$u^{32} - 14u^{30} + \dots - 44u + 11$
c_{10}	$u^{32} + 12u^{30} + \dots - 5u + 1$
c_{11}	$u^{32} - 6u^{30} + \dots + 2u + 1$
c_{12}	$u^{32} - 14u^{30} + \dots + 44u + 11$
	22

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{32} + 8y^{31} + \dots + 7y + 1$
c_2, c_6	$y^{32} - 16y^{31} + \dots - 13y + 1$
c_3	$y^{32} - 12y^{31} + \dots - 14y + 1$
c_4	$y^{32} + 9y^{31} + \dots + 30y + 1$
c_5, c_{10}	$y^{32} + 24y^{31} + \dots + 49y + 1$
c_7	$y^{32} - 6y^{31} + \dots - 12y + 1$
<i>C</i> ₈	$y^{32} - 5y^{31} + \dots + 10y + 1$
c_9, c_{12}	$y^{32} - 28y^{31} + \dots - 2508y + 121$
c_{11}	$y^{32} - 12y^{31} + \dots - 2y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.615368 + 0.789600I		
a = 0.087021 + 0.668309I	0.18681 - 4.02306I	4.02027 + 5.71072I
b = -0.318506 + 0.829126I		
u = 0.615368 - 0.789600I		
a = 0.087021 - 0.668309I	0.18681 + 4.02306I	4.02027 - 5.71072I
b = -0.318506 - 0.829126I		
u = 0.772369 + 0.562912I		
a = -1.40093 - 1.44470I	2.47144 + 1.25345I	-1.40853 - 6.35420I
b = 1.09438 - 0.98325I		
u = 0.772369 - 0.562912I		
a = -1.40093 + 1.44470I	2.47144 - 1.25345I	-1.40853 + 6.35420I
b = 1.09438 + 0.98325I		
u = 1.035230 + 0.238946I		
a = 1.33854 + 1.77837I	-3.18191 - 0.80406I	-5.79125 + 4.03239I
b = 0.13899 + 1.44826I		
u = 1.035230 - 0.238946I		
a = 1.33854 - 1.77837I	-3.18191 + 0.80406I	-5.79125 - 4.03239I
b = 0.13899 - 1.44826I		
u = 0.907928 + 0.205440I		
a = 0.08277 + 2.84353I	-7.41909 - 0.89346I	3.55183 + 9.59848I
b = 0.03127 + 1.51234I		
u = 0.907928 - 0.205440I		
a = 0.08277 - 2.84353I	-7.41909 + 0.89346I	3.55183 - 9.59848I
b = 0.03127 - 1.51234I		
u = -1.054870 + 0.175754I		
a = 0.133477 - 0.465569I	-0.294687 - 0.470796I	-2.75341 - 2.35111I
b = -0.356101 - 0.370766I		
u = -1.054870 - 0.175754I		
a = 0.133477 + 0.465569I	-0.294687 + 0.470796I	-2.75341 + 2.35111I
b = -0.356101 + 0.370766I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.933212 + 0.586055I		
a = -0.468986 + 0.710022I	1.93402 - 5.84401I	-0.76424 + 11.45101I
b = -1.158080 - 0.677112I		
u = 0.933212 - 0.586055I		
a = -0.468986 - 0.710022I	1.93402 + 5.84401I	-0.76424 - 11.45101I
b = -1.158080 + 0.677112I		
u = 0.250514 + 0.823648I		
a = 0.588258 - 1.181840I	2.54752 - 5.98225I	2.43276 + 4.77208I
b = 0.210478 - 0.985969I		
u = 0.250514 - 0.823648I		
a = 0.588258 + 1.181840I	2.54752 + 5.98225I	2.43276 - 4.77208I
b = 0.210478 + 0.985969I		
u = -1.022740 + 0.503434I		
a = -1.10903 + 2.00116I	-2.15467 + 6.28202I	1.82594 - 11.38717I
b = 0.749499 + 1.176570I		
u = -1.022740 - 0.503434I		
a = -1.10903 - 2.00116I	-2.15467 - 6.28202I	1.82594 + 11.38717I
b = 0.749499 - 1.176570I		
u = 0.875991 + 0.758352I		
a = 0.276975 - 0.871930I	6.16423 - 2.86880I	9.14034 + 2.25780I
b = -0.024633 + 0.244289I		
u = 0.875991 - 0.758352I		
a = 0.276975 + 0.871930I	6.16423 + 2.86880I	9.14034 - 2.25780I
b = -0.024633 - 0.244289I		
u = -0.628826 + 0.552150I		
a = 1.59454 - 0.63781I	2.10078 + 3.61681I	2.05377 - 7.56854I
b = 0.504831 - 1.154620I		
u = -0.628826 - 0.552150I		
a = 1.59454 + 0.63781I	2.10078 - 3.61681I	2.05377 + 7.56854I
b = 0.504831 + 1.154620I		

$\begin{array}{c} u = -0.696235 + 0.427334I \\ a = 0.024540 - 0.491594I \\ b = -0.795794 + 0.898211I \\ u = -0.696235 - 0.427334I \\ a = 0.024540 + 0.491594I \\ b = -0.795794 - 0.898211I \\ u = -0.795794 - 0.898211I \\ u = -1.111200 + 0.613834I \\ a = 1.58321 - 1.93450I \\ b = -0.372304 - 1.181190I \\ u = -1.111200 - 0.613834I \\ a = 1.58321 + 1.93450I \\ b = -0.372304 + 1.181190I \\ u = -0.469854 + 0.518228I \\ a = -2.02531 - 0.98558I \\ b = 0.353040 - 1.006530I \\ u = -0.469854 - 0.518228I \\ a = -2.02531 + 0.98558I \\ b = 0.353040 + 1.006530I \\ u = -0.624236 + 0.123767I \\ \hline \end{array} \begin{array}{c} 2.23888 + 5.70366I \\ 2.39748 - 7.68589I \\ 2.23888 - 5.70366I \\ 2.39748 - 7.68589I \\ 2.23888 - 5.70366I \\ 2.39748 - 7.68589I \\ 3.39748 - 7.$
$\begin{array}{c} b = -0.795794 + 0.898211I \\ u = -0.696235 - 0.427334I \\ a = 0.024540 + 0.491594I \\ b = -0.795794 - 0.898211I \\ \hline \\ u = -1.111200 + 0.613834I \\ a = 1.58321 - 1.93450I \\ b = -0.372304 - 1.181190I \\ \hline \\ u = -1.111200 - 0.613834I \\ a = 1.58321 + 1.93450I \\ b = -0.372304 + 1.181190I \\ \hline \\ u = -0.469854 + 0.518228I \\ a = -2.02531 - 0.98558I \\ b = 0.353040 - 1.006530I \\ \hline \\ u = -0.469854 - 0.518228I \\ a = -2.02531 + 0.98558I \\ b = 0.353040 + 1.006530I \\ \hline \\ u = -0.624236 + 0.123767I \\ \hline \end{array}$
$\begin{array}{c} u = -0.696235 - 0.427334I \\ a = 0.024540 + 0.491594I \\ b = -0.795794 - 0.898211I \\ \hline u = -1.111200 + 0.613834I \\ a = 1.58321 - 1.93450I \\ b = -0.372304 - 1.181190I \\ \hline u = -1.111200 - 0.613834I \\ a = 1.58321 + 1.93450I \\ b = -0.372304 + 1.181190I \\ \hline u = -0.469854 + 0.518228I \\ a = -2.02531 - 0.98558I \\ b = 0.353040 - 1.006530I \\ \hline u = -0.469854 - 0.518228I \\ a = -2.02531 + 0.98558I \\ b = 0.353040 + 1.006530I \\ \hline u = -0.624236 + 0.123767I \\ \hline \end{array}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c} u = -1.111200 + 0.613834I \\ a = 1.58321 - 1.93450I \\ b = -0.372304 - 1.181190I \\ u = -1.111200 - 0.613834I \\ a = 1.58321 + 1.93450I \\ b = -0.372304 + 1.181190I \\ u = -0.469854 + 0.518228I \\ a = -2.02531 - 0.98558I \\ b = 0.353040 - 1.006530I \\ u = -0.469854 - 0.518228I \\ a = -2.02531 + 0.98558I \\ b = 0.353040 + 1.006530I \\ u = -0.624236 + 0.123767I \\ \end{array}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c} u = -1.111200 - 0.613834I \\ a = 1.58321 + 1.93450I \\ b = -0.372304 + 1.181190I \\ \hline u = -0.469854 + 0.518228I \\ a = -2.02531 - 0.98558I \\ b = 0.353040 - 1.006530I \\ \hline u = -0.469854 - 0.518228I \\ a = -2.02531 + 0.98558I \\ \hline u = -0.624236 + 0.123767I \\ \hline \end{array} \begin{array}{c} 0.19464 - 10.57390I \\ -0.31764 + 10.42332I \\ \hline -0.317$
$\begin{array}{llllllllllllllllllllllllllllllllllll$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{lll} a = -2.02531 - 0.98558I & 2.23888 - 5.70366I & 2.39748 + 7.68589I \\ b = & 0.353040 - 1.006530I & & & \\ \hline u = -0.469854 - 0.518228I & & & \\ a = -2.02531 + 0.98558I & 2.23888 + 5.70366I & 2.39748 - 7.68589I \\ b = & 0.353040 + 1.006530I & & & \\ \hline u = -0.624236 + 0.123767I & & & & \\ \hline \end{array}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c} u = -0.469854 - 0.518228I \\ a = -2.02531 + 0.98558I \\ b = 0.353040 + 1.006530I \\ u = -0.624236 + 0.123767I \end{array}$ 2.23888 + 5.70366I 2.39748 - 7.68589I
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
b = 0.353040 + 1.006530I $u = -0.624236 + 0.123767I$
u = -0.624236 + 0.123767I
O FO111 + O FOF AAT O OFFOOD O FERONET A OFFOOD SECTION
a = 2.59111 + 0.59544I $2.25602 - 0.77725I$ $1.95018 + 5.87317I$
b = -0.224218 + 0.468925I
u = -0.624236 - 0.123767I
a = 2.59111 - 0.59544I $2.25602 + 0.77725I$ $1.95018 - 5.87317I$
b = -0.224218 - 0.468925I
u = 1.398230 + 0.067906I
$a = 0.38167 + 1.91257I$ $\begin{vmatrix} -3.30160 - 1.14573I \\ -2.29360 + 3.30035I \end{vmatrix}$
b = 0.028832 + 1.217920I
u = 1.398230 - 0.067906I
a = 0.38167 - 1.91257I $-3.30160 + 1.14573I$ $-2.29360 - 3.30035I$
b = 0.028832 - 1.217920I

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.18088 + 0.85568I		
a = -0.677860 + 1.044310I	-2.78356 + 3.82658I	-7.82967 - 9.67895I
b = 0.138317 + 1.145980I		
u = -1.18088 - 0.85568I		
a = -0.677860 - 1.044310I	-2.78356 - 3.82658I	-7.82967 + 9.67895I
b = 0.138317 - 1.145980I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{32} - 16u^{31} + \dots - 13u + 1)$ $\cdot (u^{152} + 63u^{151} + \dots + 4922785u + 134689)$
c_2	$(u^{32} - 8u^{30} + \dots - 3u + 1)(u^{152} - u^{151} + \dots + 1379u + 367)$
c_3	$(u^{32} - 6u^{30} + \dots - 4u + 1)(u^{152} + u^{151} + \dots + 589492u + 19909)$
c_4	$(u^{32} - u^{31} + \dots + 15u^2 + 1)(u^{152} + 4u^{151} + \dots + 5694u + 7057)$
c_5	$(u^{32} + 12u^{30} + \dots + 5u + 1)(u^{152} + u^{151} + \dots - 226661u + 18163)$
c_6	$(u^{32} - 8u^{30} + \dots + 3u + 1)(u^{152} - u^{151} + \dots + 1379u + 367)$
c_7	$(u^{32} + 2u^{31} + \dots - 8u + 1)(u^{152} - 9u^{151} + \dots - 50u + 1)$
c_8	$(u^{32} - u^{31} + \dots - 4u + 1)(u^{152} - 4u^{151} + \dots + 22u + 1)$
c_9	$(u^{32} - 14u^{30} + \dots - 44u + 11)(u^{152} - 3u^{151} + \dots - 2650u + 223)$
c_{10}	$(u^{32} + 12u^{30} + \dots - 5u + 1)(u^{152} + u^{151} + \dots - 226661u + 18163)$
c_{11}	$(u^{32} - 6u^{30} + \dots + 2u + 1)(u^{152} + 7u^{151} + \dots + 59968u + 7903)$
c_{12}	$(u^{32} - 14u^{30} + \dots + 44u + 11)(u^{152} - 3u^{151} + \dots - 2650u + 223)$ 30

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{32} + 8y^{31} + \dots + 7y + 1)$ $\cdot (y^{152} + 61y^{151} + \dots + 143171208307y + 18141126721)$
c_2, c_6	$(y^{32} - 16y^{31} + \dots - 13y + 1)$ $\cdot (y^{152} - 63y^{151} + \dots - 4922785y + 134689)$
c_3	$(y^{32} - 12y^{31} + \dots - 14y + 1)$ $\cdot (y^{152} - 27y^{151} + \dots - 116608221282y + 396368281)$
c_4	$(y^{32} + 9y^{31} + \dots + 30y + 1)$ $\cdot (y^{152} + 38y^{151} + \dots + 3402431974y + 49801249)$
c_5, c_{10}	$(y^{32} + 24y^{31} + \dots + 49y + 1)$ $\cdot (y^{152} + 105y^{151} + \dots - 5729591991y + 329894569)$
c_7	$(y^{32} - 6y^{31} + \dots - 12y + 1)(y^{152} - 5y^{151} + \dots - 68y + 1)$
c ₈	$(y^{32} - 5y^{31} + \dots + 10y + 1)(y^{152} - 8y^{151} + \dots - 22y + 1)$
c_9, c_{12}	$(y^{32} - 28y^{31} + \dots - 2508y + 121)$ $\cdot (y^{152} - 119y^{151} + \dots - 2364476y + 49729)$
c_{11}	$(y^{32} - 12y^{31} + \dots - 2y + 1)$ $\cdot (y^{152} - 39y^{151} + \dots - 5965053662y + 62457409)$