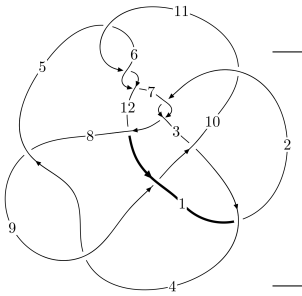
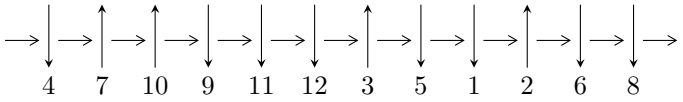
$12a_{1071}$ $(K12a_{1071})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$\underset{c_9}{1,9} \to \underset{c_4}{5,10} \to \underset{c_1}{4} \longrightarrow \underset{c_{10}}{2} \to \underset{c_3}{11} \to \underset{c_8}{3} \longrightarrow \underset{c_7}{8} \longrightarrow \underset{c_{12}}{7} \to \underset{c_6}{12} \to 6 \twoheadrightarrow c_2, c_5, c_{11}$$

Ideals for irreducible components[2]of $X_{\mathbf{par}}$

$$I_1^u = \langle 1.77660 \times 10^{1245} u^{148} + 6.71415 \times 10^{1245} u^{147} + \cdots + 3.74457 \times 10^{1246} b + 4.40626 \times 10^{1246},$$
$$- 8.25994 \times 10^{1246} u^{148} - 3.27069 \times 10^{1247} u^{147} + \cdots + 7.11469 \times 10^{1247} a - 7.83372 \times 10^{1248},$$
$$u^{149} + 4u^{148} + \cdots + 73u + 19\rangle$$
$$I_2^u = \langle 3.40750 \times 10^{59} u^{37} - 4.78008 \times 10^{59} u^{36} + \cdots + 2.11717 \times 10^{60} b + 2.49956 \times 10^{60},$$
$$1.11713 \times 10^{60} u^{37} + 5.75954 \times 10^{59} u^{36} + \cdots + 2.11717 \times 10^{60} a + 3.00294 \times 10^{59},\ u^{38} + u^{37} + \cdots + u + 1\rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 187 representations.

[1]The 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. $\boldsymbol{I_1^u = \langle 1.78 \times 10^{1245} u^{148} + 6.71 \times 10^{1245} u^{147} + \cdots + 3.74 \times 10^{1246} b + 4.41 \times 10^{1246},\ -8.26 \times 10^{1246} u^{148} - 3.27 \times 10^{1247} u^{147} + \cdots + 7.11 \times 10^{1247} a - 7.83 \times 10^{1248},\ u^{149} + 4u^{148} + \cdots + 73u + 19 \rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.116097u^{148} + 0.459709u^{147} + \cdots + 40.4995u + 11.0106 \\ -0.0474446u^{148} - 0.179304u^{147} + \cdots - 10.7177u - 1.17671 \end{pmatrix}$$

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

$$a_4 = \begin{pmatrix} 0.0686524u^{148} + 0.280405u^{147} + \cdots + 29.7818u + 9.83393 \\ -0.0474446u^{148} - 0.179304u^{147} + \cdots - 10.7177u - 1.17671 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.186978u^{148} - 0.641792u^{147} + \cdots - 24.8565u + 8.19043 \\ 0.00844573u^{148} - 0.0141488u^{147} + \cdots - 15.8056u - 7.69389 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.00409401u^{148} + 0.146299u^{147} + \cdots + 17.3491u + 25.6214 \\ -0.0900120u^{148} - 0.368345u^{147} + \cdots - 23.8847u - 6.46783 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.123082u^{148} + 0.486614u^{147} + \cdots + 38.7720u + 10.9005 \\ -0.0540469u^{148} - 0.202096u^{147} + \cdots - 10.9116u - 0.958002 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.381708u^{148} + 1.49767u^{147} + \cdots + 76.5844u + 9.83207 \\ 0.0232331u^{148} + 0.130543u^{147} + \cdots + 8.11317u + 3.92302 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.492860u^{148} + 1.91718u^{147} + \cdots + 107.856u + 14.4413 \\ -0.102583u^{148} - 0.381654u^{147} + \cdots - 19.7050u + 1.13749 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.290140u^{148} - 0.970062u^{147} + \cdots - 14.3930u + 25.9448 \\ -0.106358u^{148} - 0.443882u^{147} + \cdots - 27.3949u - 10.0581 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -0.0591855u^{148} - 0.0201284u^{147} + \cdots + 40.0677u + 41.7863 \\ -0.194071u^{148} - 0.782151u^{147} + \cdots - 45.3045u - 12.0010 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 0.147174u^{148} + 0.542286u^{147} + \cdots + 1.94409u - 6.94054$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{149} - 10u^{148} + \cdots + 347212u - 23201$
c_2, c_7	$u^{149} + 2u^{148} + \cdots - 24326u + 7187$
c_3	$u^{149} + u^{148} + \cdots + u + 1$
c_4, c_8	$u^{149} + 4u^{148} + \cdots + 163388u + 15389$
c_5, c_6, c_{11}	$u^{149} + u^{148} + \cdots - 4044u + 667$
c_9	$u^{149} + 4u^{148} + \cdots + 73u + 19$
c_{10}	$u^{149} + 4u^{148} + \cdots - 116639488u + 34307711$
c_{12}	$u^{149} + u^{148} + \cdots - 3432u + 23659$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{149} + 34y^{148} + \cdots - 32477715860y - 538286401$
c_2, c_7	$y^{149} - 80y^{148} + \cdots + 2042752080y - 51652969$
c_3	$y^{149} + 15y^{148} + \cdots - 27y - 1$
c_4, c_8	$y^{149} + 110y^{148} + \cdots - 12741844090y - 236821321$
c_5, c_6, c_{11}	$y^{149} - 141y^{148} + \cdots - 16078272y - 444889$
c_9	$y^{149} + 28y^{148} + \cdots - 10593y - 361$
c_{10}	$y^{149} - 12y^{148} + \cdots + 25050115881431194y - 1177019034059521$
c_{12}	$y^{149} + 3y^{148} + \cdots + 13696191542y - 559748281$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.822791 + 0.566488I$ $a = 0.044387 - 0.717158I$ $b = -0.912414 + 0.652071I$	$-6.14043 + 2.41887I$	0
$u = 0.822791 - 0.566488I$ $a = 0.044387 + 0.717158I$ $b = -0.912414 - 0.652071I$	$-6.14043 - 2.41887I$	0
$u = 0.684487 + 0.702737I$ $a = 0.250571 - 1.362020I$ $b = 0.00643 + 1.64717I$	$0.17185 - 1.66565I$	0
$u = 0.684487 - 0.702737I$ $a = 0.250571 + 1.362020I$ $b = 0.00643 - 1.64717I$	$0.17185 + 1.66565I$	0
$u = -0.641687 + 0.792516I$ $a = -0.232348 - 1.226240I$ $b = -0.33350 + 1.39920I$	$3.07150 + 2.81514I$	0
$u = -0.641687 - 0.792516I$ $a = -0.232348 + 1.226240I$ $b = -0.33350 - 1.39920I$	$3.07150 - 2.81514I$	0
$u = 0.556712 + 0.869557I$ $a = 1.91956 - 1.09013I$ $b = 0.028314 + 1.005700I$	$3.26290 - 3.19090I$	0
$u = 0.556712 - 0.869557I$ $a = 1.91956 + 1.09013I$ $b = 0.028314 - 1.005700I$	$3.26290 + 3.19090I$	0
$u = 0.712704 + 0.620664I$ $a = -0.529672 + 0.671924I$ $b = 1.191280 - 0.507002I$	$-7.60678 - 0.81095I$	0
$u = 0.712704 - 0.620664I$ $a = -0.529672 - 0.671924I$ $b = 1.191280 + 0.507002I$	$-7.60678 + 0.81095I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.740114+0.574065I$ $a=-0.1021720-0.0224356I$ $b=\ \ 1.370960-0.000930I$	$-7.36674+6.08958I$	0
$u=-0.740114-0.574065I$ $a=-0.1021720+0.0224356I$ $b=\ \ 1.370960+0.000930I$	$-7.36674-6.08958I$	0
$u=\ \ 0.909823+0.208880I$ $a=\ \ 0.076887-0.857113I$ $b=\ \ 0.521071-0.246570I$	$1.16655-3.31820I$	0
$u=\ \ 0.909823-0.208880I$ $a=\ \ 0.076887+0.857113I$ $b=\ \ 0.521071+0.246570I$	$1.16655+3.31820I$	0
$u=-0.784235+0.473889I$ $a=\ \ 0.380299-0.660353I$ $b=\ \ 0.663142+0.352778I$	$-1.01300+1.08677I$	0
$u=-0.784235-0.473889I$ $a=\ \ 0.380299+0.660353I$ $b=\ \ 0.663142-0.352778I$	$-1.01300-1.08677I$	0
$u=\ \ 0.555083+0.728859I$ $a=\ \ 0.055058-1.204150I$ $b=\ \ 0.66833+1.49831I$	$-2.51266-5.39632I$	0
$u=\ \ 0.555083-0.728859I$ $a=\ \ 0.055058+1.204150I$ $b=\ \ 0.66833-1.49831I$	$-2.51266+5.39632I$	0
$u=-0.914640+0.008017I$ $a=-0.250572-0.138236I$ $b=-0.602304-0.012616I$	$-1.092020+0.014144I$	0
$u=-0.914640-0.008017I$ $a=-0.250572+0.138236I$ $b=-0.602304+0.012616I$	$-1.092020-0.014144I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.731838 + 0.545147I$ $a = -0.193433 - 0.016628I$ $b = -1.062520 - 0.136919I$	$-1.84016 - 3.70908I$	0
$u = 0.731838 - 0.545147I$ $a = -0.193433 + 0.016628I$ $b = -1.062520 + 0.136919I$	$-1.84016 + 3.70908I$	0
$u = 0.347179 + 1.032320I$ $a = -0.202267 + 1.398820I$ $b = -0.68947 - 1.43468I$	$1.46037 - 10.80160I$	0
$u = 0.347179 - 1.032320I$ $a = -0.202267 - 1.398820I$ $b = -0.68947 + 1.43468I$	$1.46037 + 10.80160I$	0
$u = 0.404945 + 1.018820I$ $a = -0.959555 + 0.809393I$ $b = -0.028656 - 0.343001I$	$-5.06271 - 2.99689I$	0
$u = 0.404945 - 1.018820I$ $a = -0.959555 - 0.809393I$ $b = -0.028656 + 0.343001I$	$-5.06271 + 2.99689I$	0
$u = -0.852504 + 0.295008I$ $a = 0.234306 - 1.239890I$ $b = -0.559603 - 0.441689I$	$-3.79545 + 6.56578I$	0
$u = -0.852504 - 0.295008I$ $a = 0.234306 + 1.239890I$ $b = -0.559603 + 0.441689I$	$-3.79545 - 6.56578I$	0
$u = -1.002830 + 0.448400I$ $a = -0.530112 - 1.002450I$ $b = -0.181425 + 1.238740I$	$2.67786 + 2.86179I$	0
$u = -1.002830 - 0.448400I$ $a = -0.530112 + 1.002450I$ $b = -0.181425 - 1.238740I$	$2.67786 - 2.86179I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.827165+0.732877I$ $a=\ \ 0.065449+0.399351I$ $b=-0.954242-0.148969I$	$0.52778+4.02864I$	0
$u=-0.827165-0.732877I$ $a=\ \ 0.065449-0.399351I$ $b=-0.954242+0.148969I$	$0.52778-4.02864I$	0
$u=\ \ 0.059435+1.123230I$ $a=-0.451872-0.783174I$ $b=-0.123028+0.175062I$	$3.28868+4.01813I$	0
$u=\ \ 0.059435-1.123230I$ $a=-0.451872+0.783174I$ $b=-0.123028-0.175062I$	$3.28868-4.01813I$	0
$u=-0.136752+1.117670I$ $a=-0.004680+1.318210I$ $b=-0.659862-1.135610I$	$4.32831-0.18892I$	0
$u=-0.136752-1.117670I$ $a=-0.004680-1.318210I$ $b=-0.659862+1.135610I$	$4.32831+0.18892I$	0
$u=-0.567264+0.981487I$ $a=-1.51309-1.55737I$ $b=-0.103630+1.215780I$	$7.04562+5.07163I$	0
$u=-0.567264-0.981487I$ $a=-1.51309+1.55737I$ $b=-0.103630-1.215780I$	$7.04562-5.07163I$	0
$u=\ \ 0.856339+0.744503I$ $a=-0.0741008+0.0814312I$ $b=\ \ 1.107120+0.073780I$	$1.29255-9.14879I$	0
$u=\ \ 0.856339-0.744503I$ $a=-0.0741008-0.0814312I$ $b=\ \ 1.107120-0.073780I$	$1.29255+9.14879I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.193727+1.118850I$ $a=\ 0.146515+1.372280I$ $b=\ 0.62993-1.32351I$	$6.87557+5.98406I$	0
$u=-0.193727-1.118850I$ $a=\ 0.146515-1.372280I$ $b=\ 0.62993+1.32351I$	$6.87557-5.98406I$	0
$u=\ 1.016100+0.510997I$ $a=-1.029400-0.247265I$ $b=\ 0.145981-0.973278I$	$-3.94520+0.52520I$	0
$u=\ 1.016100-0.510997I$ $a=-1.029400+0.247265I$ $b=\ 0.145981+0.973278I$	$-3.94520-0.52520I$	0
$u=\ 1.081810+0.393115I$ $a=-0.432295+0.129104I$ $b=\ 0.933297-0.166898I$	$-8.43281-0.35878I$	0
$u=\ 1.081810-0.393115I$ $a=-0.432295-0.129104I$ $b=\ 0.933297+0.166898I$	$-8.43281+0.35878I$	0
$u=-0.881392+0.750525I$ $a=\ 0.214038-0.055567I$ $b=-1.280300+0.108912I$	$-4.84553+13.14190I$	0
$u=-0.881392-0.750525I$ $a=\ 0.214038+0.055567I$ $b=-1.280300-0.108912I$	$-4.84553-13.14190I$	0
$u=\ 0.219710+0.801720I$ $a=\ 0.098679-0.522747I$ $b=\ 0.892532+0.181824I$	$3.72750+0.10143I$	0
$u=\ 0.219710-0.801720I$ $a=\ 0.098679+0.522747I$ $b=\ 0.892532-0.181824I$	$3.72750-0.10143I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.506228 + 1.072760I$ $a = 1.37762 - 2.03261I$ $b = 0.057960 + 1.370180I$	$2.25040 - 7.09751I$	0
$u = 0.506228 - 1.072760I$ $a = 1.37762 + 2.03261I$ $b = 0.057960 - 1.370180I$	$2.25040 + 7.09751I$	0
$u = -0.591028 + 0.544821I$ $a = 0.482732 + 0.701730I$ $b = 1.054950 - 0.834211I$	$-4.85653 + 3.11200I$	0
$u = -0.591028 - 0.544821I$ $a = 0.482732 - 0.701730I$ $b = 1.054950 + 0.834211I$	$-4.85653 - 3.11200I$	0
$u = -0.776279 + 0.927653I$ $a = -0.777082 - 1.046550I$ $b = -0.603480 + 1.200590I$	$4.28088 + 7.59415I$	0
$u = -0.776279 - 0.927653I$ $a = -0.777082 + 1.046550I$ $b = -0.603480 - 1.200590I$	$4.28088 - 7.59415I$	0
$u = -1.158340 + 0.371013I$ $a = 0.597103 - 0.122745I$ $b = 0.094227 - 0.983239I$	$0.73864 + 2.83022I$	0
$u = -1.158340 - 0.371013I$ $a = 0.597103 + 0.122745I$ $b = 0.094227 + 0.983239I$	$0.73864 - 2.83022I$	0
$u = -0.319801 + 0.710569I$ $a = 0.132260 - 0.619108I$ $b = -1.232260 + 0.493503I$	$-1.91124 - 3.32706I$	0
$u = -0.319801 - 0.710569I$ $a = 0.132260 + 0.619108I$ $b = -1.232260 - 0.493503I$	$-1.91124 + 3.32706I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.988091+0.723363I$ $a=\ 0.183842+0.017986I$ $b=\ 0.478607-0.061501I$	$-1.08906+2.95891I$	0
$u=-0.988091-0.723363I$ $a=\ 0.183842-0.017986I$ $b=\ 0.478607+0.061501I$	$-1.08906-2.95891I$	0
$u=\ 1.234850+0.092095I$ $a=-0.188514-0.205299I$ $b=-0.248632-1.085570I$	$-2.98414-6.67124I$	0
$u=\ 1.234850-0.092095I$ $a=-0.188514+0.205299I$ $b=-0.248632+1.085570I$	$-2.98414+6.67124I$	0
$u=\ 0.763103+0.992115I$ $a=\ 0.83868-1.25890I$ $b=\ 0.439093+1.337560I$	$8.26844-4.66889I$	0
$u=\ 0.763103-0.992115I$ $a=\ 0.83868+1.25890I$ $b=\ 0.439093-1.337560I$	$8.26844+4.66889I$	0
$u=\ 0.690619+0.256098I$ $a=-1.134530-0.254755I$ $b=-0.601353-0.777995I$	$-0.92039-2.54804I$	0
$u=\ 0.690619-0.256098I$ $a=-1.134530+0.254755I$ $b=-0.601353+0.777995I$	$-0.92039+2.54804I$	0
$u=-0.735269$ $a=-0.0426728$ $b=-0.565864$	-1.14530	0
$u=-0.709645+0.024755I$ $a=\ 1.02958-1.25535I$ $b=\ 0.596020-0.915779I$	$-5.53049+0.84818I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.709645-0.024755I$ $a=\ \ 1.02958+1.25535I$ $b=\ \ 0.596020+0.915779I$	$-5.53049-0.84818I$	0
$u=-0.359244+1.263320I$ $a=\ \ 0.580321-1.010880I$ $b=-0.340106+0.264669I$	$-3.12866-7.48606I$	0
$u=-0.359244-1.263320I$ $a=\ \ 0.580321+1.010880I$ $b=-0.340106-0.264669I$	$-3.12866+7.48606I$	0
$u=-0.799300+1.053190I$ $a=-0.74196-1.36055I$ $b=-0.33684+1.45904I$	$4.47048+1.63148I$	0
$u=-0.799300-1.053190I$ $a=-0.74196+1.36055I$ $b=-0.33684-1.45904I$	$4.47048-1.63148I$	0
$u=-0.397807+0.532565I$ $a=-0.23162-2.56983I$ $b=-0.155695+1.056100I$	$2.14947+2.63117I$	$-4.00000-3.48885I$
$u=-0.397807-0.532565I$ $a=-0.23162+2.56983I$ $b=-0.155695-1.056100I$	$2.14947-2.63117I$	$-4.00000+3.48885I$
$u=\ \ 1.105120+0.877439I$ $a=\ \ 0.199968+0.016509I$ $b=-0.677538+0.208812I$	$-6.24761-4.45078I$	0
$u=\ \ 1.105120-0.877439I$ $a=\ \ 0.199968-0.016509I$ $b=-0.677538-0.208812I$	$-6.24761+4.45078I$	0
$u=-0.292532+0.505444I$ $a=\ \ 1.40602-0.60186I$ $b=\ \ 0.044037-1.048900I$	$3.33827-2.84247I$	$-1.76881+3.33646I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.292532-0.505444I$ $a=\ 1.40602+0.60186I$ $b=\ 0.044037+1.048900I$	$3.33827+2.84247I$	$-1.76881-3.33646I$
$u=-1.08382+0.91193I$ $a=-0.300449-1.201790I$ $b=-0.222649+1.256110I$	$2.75191+2.86034I$	0
$u=-1.08382-0.91193I$ $a=-0.300449+1.201790I$ $b=-0.222649-1.256110I$	$2.75191-2.86034I$	0
$u=\ 0.01051+1.42451I$ $a=\ 0.299533-1.116610I$ $b=\ 0.162653+0.921564I$	$3.33018+1.31474I$	0
$u=\ 0.01051-1.42451I$ $a=\ 0.299533+1.116610I$ $b=\ 0.162653-0.921564I$	$3.33018-1.31474I$	0
$u=\ 0.116652+0.558197I$ $a=-2.24939-2.20309I$ $b=\ 0.250939+0.785151I$	$-4.36914-1.20866I$	$-3.88970+4.69115I$
$u=\ 0.116652-0.558197I$ $a=-2.24939+2.20309I$ $b=\ 0.250939-0.785151I$	$-4.36914+1.20866I$	$-3.88970-4.69115I$
$u=\ 0.71489+1.26705I$ $a=\ 0.437939-1.024770I$ $b=\ 0.032561+1.125830I$	$3.47028+0.93146I$	0
$u=\ 0.71489-1.26705I$ $a=\ 0.437939+1.024770I$ $b=\ 0.032561-1.125830I$	$3.47028-0.93146I$	0
$u=\ 0.535565+0.081022I$ $a=-1.68567-1.93268I$ $b=-0.387439+0.352998I$	$-5.03890-4.06980I$	$-10.98331-1.05875I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 0.535565 - 0.081022I$ $a = -1.68567 + 1.93268I$ $b = -0.387439 - 0.352998I$	$-5.03890 + 4.06980I$	$-10.98331 + 1.05875I$
$u = \quad 0.92278 + 1.13209I$ $a = -0.347640 + 0.920418I$ $b = -0.530799 - 0.800669I$	$-5.44631 - 2.90760I$	0
$u = \quad 0.92278 - 1.13209I$ $a = -0.347640 - 0.920418I$ $b = -0.530799 + 0.800669I$	$-5.44631 + 2.90760I$	0
$u = -0.060516 + 0.532681I$ $a = -0.164411 + 0.444161I$ $b = -1.21016 - 1.05306I$	$2.54178 + 1.17821I$	$11.64009 - 2.24509I$
$u = -0.060516 - 0.532681I$ $a = -0.164411 - 0.444161I$ $b = -1.21016 + 1.05306I$	$2.54178 - 1.17821I$	$11.64009 + 2.24509I$
$u = \quad 0.99166 + 1.11425I$ $a = -0.91295 + 1.42599I$ $b = -0.185960 - 1.394340I$	$0.56601 - 4.83848I$	0
$u = \quad 0.99166 - 1.11425I$ $a = -0.91295 - 1.42599I$ $b = -0.185960 + 1.394340I$	$0.56601 + 4.83848I$	0
$u = -1.07785 + 1.05994I$ $a = \quad 0.462928 + 1.232370I$ $b = \quad 0.61542 - 1.40165I$	$-2.98411 + 12.81440I$	0
$u = -1.07785 - 1.05994I$ $a = \quad 0.462928 - 1.232370I$ $b = \quad 0.61542 + 1.40165I$	$-2.98411 - 12.81440I$	0
$u = \quad 0.311732 + 0.358910I$ $a = \quad 1.26566 - 4.52195I$ $b = \quad 0.287040 + 1.083010I$	$3.53857 - 6.53979I$	$-2.29573 + 10.84804I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.311732 - 0.358910I$ $a = 1.26566 + 4.52195I$ $b = 0.287040 - 1.083010I$	$3.53857 + 6.53979I$	$-2.29573 - 10.84804I$
$u = 1.10068 + 1.07688I$ $a = -0.497997 + 1.166620I$ $b = -0.49594 - 1.35858I$	$2.72605 - 9.15496I$	0
$u = 1.10068 - 1.07688I$ $a = -0.497997 - 1.166620I$ $b = -0.49594 + 1.35858I$	$2.72605 + 9.15496I$	0
$u = -0.019041 + 0.452582I$ $a = 0.718133 + 1.063210I$ $b = 0.70293 - 1.54683I$	$5.29844 - 2.64181I$	$16.0425 + 10.8617I$
$u = -0.019041 - 0.452582I$ $a = 0.718133 - 1.063210I$ $b = 0.70293 + 1.54683I$	$5.29844 + 2.64181I$	$16.0425 - 10.8617I$
$u = -0.245392 + 0.329056I$ $a = -0.98087 - 6.33078I$ $b = -0.345189 + 1.074550I$	$-1.91697 + 10.16090I$	$-7.1460 - 13.4440I$
$u = -0.245392 - 0.329056I$ $a = -0.98087 + 6.33078I$ $b = -0.345189 - 1.074550I$	$-1.91697 - 10.16090I$	$-7.1460 + 13.4440I$
$u = -0.208206 + 0.352641I$ $a = 1.83891 + 0.32050I$ $b = 0.149248 + 0.354691I$	$-0.326714 + 1.261040I$	$-4.47886 - 3.96166I$
$u = -0.208206 - 0.352641I$ $a = 1.83891 - 0.32050I$ $b = 0.149248 - 0.354691I$	$-0.326714 - 1.261040I$	$-4.47886 + 3.96166I$
$u = -0.001597 + 0.406180I$ $a = -0.45088 + 1.58611I$ $b = -0.66102 - 1.98194I$	$-0.18335 + 5.12037I$	$13.7772 - 4.9372I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.001597-0.406180I$ $a=-0.45088-1.58611I$ $b=-0.66102+1.98194I$	$-0.18335-5.12037I$	$13.7772+4.9372I$
$u=\ \ 0.142368+0.376973I$ $a=-2.64476+0.71982I$ $b=-0.134828-1.375840I$	$6.10118+0.21034I$	$4.82953+0.51502I$
$u=\ \ 0.142368-0.376973I$ $a=-2.64476-0.71982I$ $b=-0.134828+1.375840I$	$6.10118-0.21034I$	$4.82953-0.51502I$
$u=\ \ 0.92096+1.31604I$ $a=\ \ 0.064604-1.199110I$ $b=\ \ 0.648507+1.063430I$	$-5.58238-7.08505I$	0
$u=\ \ 0.92096-1.31604I$ $a=\ \ 0.064604+1.199110I$ $b=\ \ 0.648507-1.063430I$	$-5.58238+7.08505I$	0
$u=-1.13004+1.14773I$ $a=\ \ 0.498632+1.050560I$ $b=\ \ 0.360295-1.201120I$	$1.72436+4.88386I$	0
$u=-1.13004-1.14773I$ $a=\ \ 0.498632-1.050560I$ $b=\ \ 0.360295+1.201120I$	$1.72436-4.88386I$	0
$u=-0.98295+1.31634I$ $a=-0.520381-0.851587I$ $b=\ \ 0.219731+1.105980I$	$-2.60212-4.67238I$	0
$u=-0.98295-1.31634I$ $a=-0.520381+0.851587I$ $b=\ \ 0.219731-1.105980I$	$-2.60212+4.67238I$	0
$u=-0.47592+1.57457I$ $a=-0.200625-1.006440I$ $b=-0.313934+0.854211I$	$3.46409+4.38803I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.47592-1.57457I$ $a=-0.200625+1.006440I$ $b=-0.313934-0.854211I$	$3.46409-4.38803I$	0
$u=-1.10913+1.22830I$ $a=-0.42349-1.37161I$ $b=-0.56727+1.43965I$	$-0.0057+19.5333I$	0
$u=-1.10913-1.22830I$ $a=-0.42349+1.37161I$ $b=-0.56727-1.43965I$	$-0.0057-19.5333I$	0
$u=-0.322870+0.079521I$ $a=4.60389+1.60494I$ $b=0.521329-0.712682I$	$-6.14357+3.72546I$	$-15.6967-1.8148I$
$u=-0.322870-0.079521I$ $a=4.60389-1.60494I$ $b=0.521329+0.712682I$	$-6.14357-3.72546I$	$-15.6967+1.8148I$
$u=-0.101421+0.314930I$ $a=3.77657+2.32255I$ $b=0.03817-1.46841I$	$1.15038+2.98488I$	$-1.23989-2.08887I$
$u=-0.101421-0.314930I$ $a=3.77657-2.32255I$ $b=0.03817+1.46841I$	$1.15038-2.98488I$	$-1.23989+2.08887I$
$u=0.76399+1.51490I$ $a=-0.17722+1.73202I$ $b=-0.335847-1.204970I$	$-3.13095-8.20929I$	0
$u=0.76399-1.51490I$ $a=-0.17722-1.73202I$ $b=-0.335847+1.204970I$	$-3.13095+8.20929I$	0
$u=1.12979+1.26882I$ $a=0.392036-1.293300I$ $b=0.51917+1.38258I$	$5.8399-14.8700I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.12979 - 1.26882I$ $a = 0.392036 + 1.293300I$ $b = 0.51917 - 1.38258I$	$5.8399 + 14.8700I$	0
$u = -1.34716 + 1.07030I$ $a = 0.485580 + 1.072570I$ $b = 0.111570 - 1.379870I$	$2.74353 + 5.90452I$	0
$u = -1.34716 - 1.07030I$ $a = 0.485580 - 1.072570I$ $b = 0.111570 + 1.379870I$	$2.74353 - 5.90452I$	0
$u = 1.00526 + 1.41088I$ $a = 0.01130 - 1.49942I$ $b = 0.440065 + 1.245610I$	$-4.97260 - 5.23974I$	0
$u = 1.00526 - 1.41088I$ $a = 0.01130 + 1.49942I$ $b = 0.440065 - 1.245610I$	$-4.97260 + 5.23974I$	0
$u = -1.11452 + 1.35069I$ $a = -0.309636 - 1.220240I$ $b = -0.492999 + 1.279710I$	$4.12884 + 9.22344I$	0
$u = -1.11452 - 1.35069I$ $a = -0.309636 + 1.220240I$ $b = -0.492999 - 1.279710I$	$4.12884 - 9.22344I$	0
$u = -1.11423 + 1.38028I$ $a = 0.43755 + 1.41159I$ $b = 0.210804 - 1.289680I$	$3.11861 + 5.61511I$	0
$u = -1.11423 - 1.38028I$ $a = 0.43755 - 1.41159I$ $b = 0.210804 + 1.289680I$	$3.11861 - 5.61511I$	0
$u = 0.168788 + 0.117962I$ $a = -4.45602 + 3.79259I$ $b = -0.280598 - 0.840440I$	$-0.55056 - 1.50329I$	$-8.82318 + 4.22354I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.168788 - 0.117962I$ $a = -4.45602 - 3.79259I$ $b = -0.280598 + 0.840440I$	$-0.55056 + 1.50329I$	$-8.82318 - 4.22354I$
$u = 1.93305 + 0.50959I$ $a = -0.142191 + 0.902871I$ $b = 0.066677 - 1.257350I$	$5.77816 - 1.65318I$	0
$u = 1.93305 - 0.50959I$ $a = -0.142191 - 0.902871I$ $b = 0.066677 + 1.257350I$	$5.77816 + 1.65318I$	0
$u = -1.06894 + 2.02788I$ $a = 0.327388 + 1.050300I$ $b = 0.013925 - 1.040450I$	$3.88914 + 1.74878I$	0
$u = -1.06894 - 2.02788I$ $a = 0.327388 - 1.050300I$ $b = 0.013925 + 1.040450I$	$3.88914 - 1.74878I$	0
$u = -1.66582 + 1.59423I$ $a = 0.348814 + 0.957220I$ $b = -0.230037 - 1.137420I$	$-0.55295 - 9.90422I$	0
$u = -1.66582 - 1.59423I$ $a = 0.348814 - 0.957220I$ $b = -0.230037 + 1.137420I$	$-0.55295 + 9.90422I$	0
$u = 1.40388 + 2.07476I$ $a = -0.297089 + 1.030670I$ $b = 0.090175 - 1.110300I$	$5.54771 + 4.59569I$	0
$u = 1.40388 - 2.07476I$ $a = -0.297089 - 1.030670I$ $b = 0.090175 + 1.110300I$	$5.54771 - 4.59569I$	0

II.

$\boldsymbol{I_2^u = \langle 3.41\times 10^{59}u^{37} - 4.78\times 10^{59}u^{36} + \cdots + 2.12\times 10^{60}b + 2.50\times 10^{60},\ 1.12\times 10^{60}u^{37} + 5.76\times 10^{59}u^{36} + \cdots + 2.12\times 10^{60}a + 3.00\times 10^{59},\ u^{38} + u^{37} + \cdots + u + 1\rangle}$

(i) Arc colorings

$$a_1 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.527654u^{37} - 0.272040u^{36} + \cdots + 2.69562u - 0.141838 \\ -0.160946u^{37} + 0.225777u^{36} + \cdots - 3.74177u - 1.18061 \end{pmatrix}$$

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

$$a_4 = \begin{pmatrix} -0.688600u^{37} - 0.0462627u^{36} + \cdots - 1.04615u - 1.32245 \\ -0.160946u^{37} + 0.225777u^{36} + \cdots - 3.74177u - 1.18061 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -2.70490u^{37} - 1.58675u^{36} + \cdots - 2.58789u - 2.51374 \\ -1.06367u^{37} - 0.854375u^{36} + \cdots + 1.82410u - 0.789642 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.80241u^{37} + 0.623202u^{36} + \cdots + 5.76280u + 0.911275 \\ 0.223824u^{37} + 0.0376423u^{36} + \cdots - 0.954155u - 1.76154 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -0.894677u^{37} - 0.628125u^{36} + \cdots + 2.74189u - 0.784175 \\ 0.281975u^{37} + 0.316543u^{36} + \cdots - 3.15991u - 0.804828 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.0958034u^{37} - 0.488043u^{36} + \cdots + 1.03707u + 1.30515 \\ 0.693839u^{37} + 0.214017u^{36} + \cdots - 0.197944u + 1.30859 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.274532u^{37} - 0.751509u^{36} + \cdots - 1.60654u - 0.419018 \\ 0.416502u^{37} + 0.416592u^{36} + \cdots + 2.41842u + 2.42587 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.607657u^{37} - 0.0389698u^{36} + \cdots - 4.43061u - 1.64344 \\ -0.737209u^{37} - 0.936332u^{36} + \cdots + 4.58964u + 0.759813 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -1.69112u^{37} - 1.54813u^{36} + \cdots - 0.427166u - 2.14299 \\ 0.0531670u^{37} + 0.360339u^{36} + \cdots - 6.98830u - 1.20508 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 3.31222u^{37} - 0.0478282u^{36} + \cdots - 8.77444u - 13.9498$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{38} - 3u^{37} + \cdots + 8u^2 + 1$
c_2	$u^{38} - u^{37} + \cdots - 16u^2 + 1$
c_3	$u^{38} + 4u^{36} + \cdots + u + 1$
c_4	$u^{38} + u^{37} + \cdots - 16u + 1$
c_5, c_6	$u^{38} - 20u^{36} + \cdots + 2u + 1$
c_7	$u^{38} + u^{37} + \cdots - 16u^2 + 1$
c_8	$u^{38} - u^{37} + \cdots + 16u + 1$
c_9	$u^{38} + u^{37} + \cdots + u + 1$
c_{10}	$u^{38} - 5u^{37} + \cdots - 4u + 53$
c_{11}	$u^{38} - 20u^{36} + \cdots - 2u + 1$
c_{12}	$u^{38} + 6u^{36} + \cdots - 10u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{38} + 11y^{37} + \cdots + 16y + 1$
c_2, c_7	$y^{38} - 23y^{37} + \cdots - 32y + 1$
c_3	$y^{38} + 8y^{37} + \cdots + 3y + 1$
c_4, c_8	$y^{38} + 35y^{37} + \cdots - 78y + 1$
c_5, c_6, c_{11}	$y^{38} - 40y^{37} + \cdots + 8y + 1$
c_9	$y^{38} + 17y^{37} + \cdots - 3y + 1$
c_{10}	$y^{38} + 9y^{37} + \cdots + 52030y + 2809$
c_{12}	$y^{38} + 12y^{37} + \cdots - 78y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.581819+0.787198I$ $a=-1.90066-1.35846I$ $b=-0.233545+1.225910I$	$3.84319+4.71088I$	$-0.46280-6.88160I$
$u=-0.581819-0.787198I$ $a=-1.90066+1.35846I$ $b=-0.233545-1.225910I$	$3.84319-4.71088I$	$-0.46280+6.88160I$
$u=-0.809020+0.529699I$ $a=-0.574982-0.508391I$ $b=1.062970+0.368148I$	$-7.65620+0.44843I$	$-5.28310+6.52923I$
$u=-0.809020-0.529699I$ $a=-0.574982+0.508391I$ $b=1.062970-0.368148I$	$-7.65620-0.44843I$	$-5.28310-6.52923I$
$u=-0.770684+0.489111I$ $a=1.209020-0.469475I$ $b=-0.1337560-0.0453600I$	$-4.73247+4.87232I$	$-6.50156-6.48883I$
$u=-0.770684-0.489111I$ $a=1.209020+0.469475I$ $b=-0.1337560+0.0453600I$	$-4.73247-4.87232I$	$-6.50156+6.48883I$
$u=0.952857+0.579267I$ $a=-0.267959-0.396124I$ $b=-0.391639+0.059254I$	$-0.87311-2.32740I$	$-5.14628+1.05771I$
$u=0.952857-0.579267I$ $a=-0.267959+0.396124I$ $b=-0.391639-0.059254I$	$-0.87311+2.32740I$	$-5.14628-1.05771I$
$u=-0.168510+0.821634I$ $a=0.450203+0.707128I$ $b=0.440251-1.087420I$	$4.80718-2.28673I$	$3.50663+1.43338I$
$u=-0.168510-0.821634I$ $a=0.450203-0.707128I$ $b=0.440251+1.087420I$	$4.80718+2.28673I$	$3.50663-1.43338I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.429288 + 1.103280I$ $a = 0.82581 - 1.88992I$ $b = -0.295937 + 1.059150I$	$-1.49530 + 9.25404I$	$-3.65023 - 5.86849I$
$u = 0.429288 - 1.103280I$ $a = 0.82581 + 1.88992I$ $b = -0.295937 - 1.059150I$	$-1.49530 - 9.25404I$	$-3.65023 + 5.86849I$
$u = -0.652127 + 0.477531I$ $a = -0.116840 + 0.569044I$ $b = 0.346306 - 1.290060I$	$4.84984 - 2.43886I$	$-0.90164 + 3.88333I$
$u = -0.652127 - 0.477531I$ $a = -0.116840 - 0.569044I$ $b = 0.346306 + 1.290060I$	$4.84984 + 2.43886I$	$-0.90164 - 3.88333I$
$u = 0.719715 + 0.342472I$ $a = -1.044510 - 0.281028I$ $b = -0.547744 - 0.636800I$	$-0.96062 - 2.81911I$	$-6.3302 + 15.4084I$
$u = 0.719715 - 0.342472I$ $a = -1.044510 + 0.281028I$ $b = -0.547744 + 0.636800I$	$-0.96062 + 2.81911I$	$-6.3302 - 15.4084I$
$u = -0.517454 + 0.528654I$ $a = 1.42791 + 1.11087I$ $b = 0.642884 - 0.618003I$	$-5.71245 + 4.31152I$	$-8.79528 - 9.81076I$
$u = -0.517454 - 0.528654I$ $a = 1.42791 - 1.11087I$ $b = 0.642884 + 0.618003I$	$-5.71245 - 4.31152I$	$-8.79528 + 9.81076I$
$u = 0.677000 + 1.142220I$ $a = 0.94945 - 1.31823I$ $b = 0.208074 + 1.176800I$	$5.85215 - 5.01077I$	$0. + 4.64122I$
$u = 0.677000 - 1.142220I$ $a = 0.94945 + 1.31823I$ $b = 0.208074 - 1.176800I$	$5.85215 + 5.01077I$	$0. - 4.64122I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.659289+0.103010I$ $a=\ 0.67203-1.75898I$ $b=\ 0.539517-0.759509I$	$-5.47128+1.31809I$	$-10.72815-9.07865I$
$u=-0.659289-0.103010I$ $a=\ 0.67203+1.75898I$ $b=\ 0.539517+0.759509I$	$-5.47128-1.31809I$	$-10.72815+9.07865I$
$u=\ 0.063673+1.400840I$ $a=\ 0.004534-1.302700I$ $b=-0.351265+1.141000I$	$3.52316-0.22029I$	0
$u=\ 0.063673-1.400840I$ $a=\ 0.004534+1.302700I$ $b=-0.351265-1.141000I$	$3.52316+0.22029I$	0
$u=-1.02673+1.00210I$ $a=\ 0.99000+1.28518I$ $b=\ 0.139998-1.382560I$	$0.46013+5.82907I$	0
$u=-1.02673-1.00210I$ $a=\ 0.99000-1.28518I$ $b=\ 0.139998+1.382560I$	$0.46013-5.82907I$	0
$u=\ 0.004135+0.341085I$ $a=-1.75504-0.28767I$ $b=-0.799811-1.113400I$	$2.15713+1.21822I$	$-9.81477-2.56503I$
$u=\ 0.004135-0.341085I$ $a=-1.75504+0.28767I$ $b=-0.799811+1.113400I$	$2.15713-1.21822I$	$-9.81477+2.56503I$
$u=\ 0.324169+0.054741I$ $a=\ 1.70793-0.82297I$ $b=-0.34703+1.77367I$	$-0.51099-5.17367I$	$-11.10308+8.23111I$
$u=\ 0.324169-0.054741I$ $a=\ 1.70793+0.82297I$ $b=-0.34703-1.77367I$	$-0.51099+5.17367I$	$-11.10308-8.23111I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.05542 + 1.68112I$ $a = 0.00445 - 1.48523I$ $b = 0.224310 + 1.109410I$	$4.76012 - 5.14898I$	0
$u = 0.05542 - 1.68112I$ $a = 0.00445 + 1.48523I$ $b = 0.224310 - 1.109410I$	$4.76012 + 5.14898I$	0
$u = 1.16532 + 1.27732I$ $a = -0.525453 + 1.270450I$ $b = -0.210300 - 1.303100I$	$3.18408 - 4.85642I$	0
$u = 1.16532 - 1.27732I$ $a = -0.525453 - 1.270450I$ $b = -0.210300 + 1.303100I$	$3.18408 + 4.85642I$	0
$u = -0.92048 + 1.54996I$ $a = 0.02654 + 1.43190I$ $b = 0.437495 - 1.189770I$	$-4.82260 + 5.63511I$	0
$u = -0.92048 - 1.54996I$ $a = 0.02654 - 1.43190I$ $b = 0.437495 + 1.189770I$	$-4.82260 - 5.63511I$	0
$u = 1.21454 + 1.70439I$ $a = -0.082444 + 1.057460I$ $b = -0.230777 - 1.114510I$	$3.73283 - 2.84759I$	0
$u = 1.21454 - 1.70439I$ $a = -0.082444 - 1.057460I$ $b = -0.230777 + 1.114510I$	$3.73283 + 2.84759I$	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{38}-3u^{37}+\cdots+8u^2+1)(u^{149}-10u^{148}+\cdots+347212u-23201)$
c_2	$(u^{38}-u^{37}+\cdots-16u^2+1)(u^{149}+2u^{148}+\cdots-24326u+7187)$
c_3	$(u^{38}+4u^{36}+\cdots+u+1)(u^{149}+u^{148}+\cdots+u+1)$
c_4	$(u^{38}+u^{37}+\cdots-16u+1)(u^{149}+4u^{148}+\cdots+163388u+15389)$
c_5, c_6	$(u^{38}-20u^{36}+\cdots+2u+1)(u^{149}+u^{148}+\cdots-4044u+667)$
c_7	$(u^{38}+u^{37}+\cdots-16u^2+1)(u^{149}+2u^{148}+\cdots-24326u+7187)$
c_8	$(u^{38}-u^{37}+\cdots+16u+1)(u^{149}+4u^{148}+\cdots+163388u+15389)$
c_9	$(u^{38}+u^{37}+\cdots+u+1)(u^{149}+4u^{148}+\cdots+73u+19)$
c_{10}	$(u^{38}-5u^{37}+\cdots-4u+53)$ $\cdot(u^{149}+4u^{148}+\cdots-116639488u+34307711)$
c_{11}	$(u^{38}-20u^{36}+\cdots-2u+1)(u^{149}+u^{148}+\cdots-4044u+667)$
c_{12}	$(u^{38}+6u^{36}+\cdots-10u+1)(u^{149}+u^{148}+\cdots-3432u+23659)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{38}+11y^{37}+\cdots+16y+1)$ $\cdot(y^{149}+34y^{148}+\cdots-32477715860y-538286401)$
c_2, c_7	$(y^{38}-23y^{37}+\cdots-32y+1)$ $\cdot(y^{149}-80y^{148}+\cdots+2042752080y-51652969)$
c_3	$(y^{38}+8y^{37}+\cdots+3y+1)(y^{149}+15y^{148}+\cdots-27y-1)$
c_4, c_8	$(y^{38}+35y^{37}+\cdots-78y+1)$ $\cdot(y^{149}+110y^{148}+\cdots-12741844090y-236821321)$
c_5, c_6, c_{11}	$(y^{38}-40y^{37}+\cdots+8y+1)$ $\cdot(y^{149}-141y^{148}+\cdots-16078272y-444889)$
c_9	$(y^{38}+17y^{37}+\cdots-3y+1)(y^{149}+28y^{148}+\cdots-10593y-361)$
c_{10}	$(y^{38}+9y^{37}+\cdots+52030y+2809)$ $\cdot(y^{149}-12y^{148}+\cdots+25050115881431194y-1177019034059521)$
c_{12}	$(y^{38}+12y^{37}+\cdots-78y+1)$ $\cdot(y^{149}+3y^{148}+\cdots+13696191542y-559748281)$