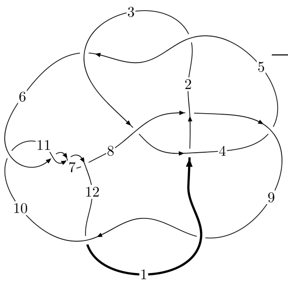
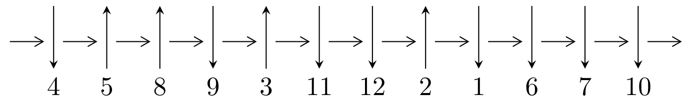
$12a_{0833}$ $(K12a_{0833})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$\begin{aligned} I_1^u = \langle & 6.92226 \times 10^{23} u^{76} + 2.25852 \times 10^{24} u^{75} + \cdots + 3.76421 \times 10^{24} b + 1.44507 \times 10^{24}, \\ & - 8.36115 \times 10^{24} u^{76} - 3.47813 \times 10^{25} u^{75} + \cdots + 3.76421 \times 10^{24} a + 4.23354 \times 10^{25},\ u^{77} + 2u^{76} + \cdots + u + \end{aligned}$$

$$I_2^u = \langle b - 1,\ a - u - 3,\ u^2 + u - 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 79 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.

$I^u_1 = \langle 6.92\times10^{23}u^{76}+2.26\times10^{24}u^{75}+\cdots+3.76\times10^{24}b+1.45\times10^{24},\ -8.36\times10^{24}u^{76}-3.48\times10^{25}u^{75}+\cdots+3.76\times10^{24}a+4.23\times10^{25},\ u^{77}+2u^{76}+\cdots+u+1\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix}1\\0\end{pmatrix}$$
$$a_{11} = \begin{pmatrix}0\\u\end{pmatrix}$$
$$a_7 = \begin{pmatrix}1\\u^2\end{pmatrix}$$
$$a_{12} = \begin{pmatrix}-u\\-u^3+u\end{pmatrix}$$
$$a_3 = \begin{pmatrix}2.22122u^{76}+9.24000u^{75}+\cdots-29.9150u-11.2468\\-0.183897u^{76}-0.599998u^{75}+\cdots+1.78805u-0.383897\end{pmatrix}$$
$$a_8 = \begin{pmatrix}-u^2+1\\-u^4+2u^2\end{pmatrix}$$
$$a_4 = \begin{pmatrix}2.46730u^{76}+6.84009u^{75}+\cdots-19.3082u-7.80666\\0.0679123u^{76}-1.39991u^{75}+\cdots+6.03396u+1.46791\end{pmatrix}$$
$$a_5 = \begin{pmatrix}-1.93121u^{76}-8.43999u^{75}+\cdots+27.5519u+11.3966\\0.264412u^{76}+0.600009u^{75}+\cdots-1.84779u+0.464412\end{pmatrix}$$
$$a_2 = \begin{pmatrix}1.23607u^{76}+1.79998u^{75}+\cdots-5.48564u-0.683416\\0.838969u^{76}-0.0000226859u^{75}+\cdots+0.119485u+0.838970\end{pmatrix}$$
$$a_{10} = \begin{pmatrix}u\\u\end{pmatrix}$$
$$a_1 = \begin{pmatrix}u^5-2u^3-u\\u^5-3u^3+u\end{pmatrix}$$
$$a_9 = \begin{pmatrix}u^9-4u^7+3u^5+2u^3+u\\u^9-5u^7+7u^5-2u^3+u\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= \frac{1889887487597022208051176 6}{3764208987280068409379969}u^{76}+\frac{2303694875479765465139563 5}{3764208987280068409379969}u^{75}+\cdots+\frac{8979271421585287930753213 6}{3764208987280068409379969}u+\frac{2808354511169646468973140 5}{3764208987280068409379969}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{77} - 13u^{76} + \cdots + 28u - 4$
c_2, c_5	$u^{77} + 3u^{76} + \cdots - 28u - 1$
c_3	$u^{77} + 2u^{76} + \cdots + 36927u - 10649$
c_4	$u^{77} + 46u^{75} + \cdots - 3159u - 521$
c_6, c_7, c_{10} c_{11}	$u^{77} - 2u^{76} + \cdots + u - 1$
c_8	$u^{77} - 4u^{76} + \cdots - u + 1$
c_9, c_{12}	$u^{77} - 12u^{76} + \cdots - 7323u + 937$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{77} + 15y^{76} + \cdots + 8y - 16$
c_2, c_5	$y^{77} - 59y^{76} + \cdots + 840y - 1$
c_3	$y^{77} + 36y^{76} + \cdots + 7037007165y - 113401201$
c_4	$y^{77} + 92y^{76} + \cdots + 6188485y - 271441$
c_6, c_7, c_{10} c_{11}	$y^{77} - 84y^{76} + \cdots + 9y - 1$
c_8	$y^{77} - 16y^{76} + \cdots + 9y - 1$
c_9, c_{12}	$y^{77} + 60y^{76} + \cdots - 6663999y - 877969$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.853925 + 0.296160I$ $a = 0.973281 - 0.595252I$ $b = 1.172540 + 0.189613I$	$1.07224 + 1.58898I$	0
$u = 0.853925 - 0.296160I$ $a = 0.973281 + 0.595252I$ $b = 1.172540 - 0.189613I$	$1.07224 - 1.58898I$	0
$u = -0.593838 + 0.645320I$ $a = -0.63075 + 1.51672I$ $b = 1.270780 + 0.133216I$	$7.55124 + 4.72924I$	$0. - 6.30385I$
$u = -0.593838 - 0.645320I$ $a = -0.63075 - 1.51672I$ $b = 1.270780 - 0.133216I$	$7.55124 - 4.72924I$	$0. + 6.30385I$
$u = 0.581242 + 0.631919I$ $a = -1.12909 - 2.01443I$ $b = 1.44071 - 0.50854I$	$8.3310 - 13.1724I$	$0. + 9.15625I$
$u = 0.581242 - 0.631919I$ $a = -1.12909 + 2.01443I$ $b = 1.44071 + 0.50854I$	$8.3310 + 13.1724I$	$0. - 9.15625I$
$u = -0.766915 + 0.349815I$ $a = 0.45233 + 1.81840I$ $b = 1.257950 + 0.389125I$	$1.58579 + 7.91925I$	$-4.00000 - 9.21393I$
$u = -0.766915 - 0.349815I$ $a = 0.45233 - 1.81840I$ $b = 1.257950 - 0.389125I$	$1.58579 - 7.91925I$	$-4.00000 + 9.21393I$
$u = 0.546540 + 0.601133I$ $a = 1.244280 + 0.506121I$ $b = -0.172494 + 1.220390I$	$3.24579 - 7.19707I$	$-1.99256 + 9.26795I$
$u = 0.546540 - 0.601133I$ $a = 1.244280 - 0.506121I$ $b = -0.172494 - 1.220390I$	$3.24579 + 7.19707I$	$-1.99256 - 9.26795I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.511919 + 0.613048I$ $a = 1.43493 + 1.72189I$ $b = -1.55248 + 0.63641I$	$7.52474 - 4.19900I$	$4.30781 + 6.64099I$
$u = 0.511919 - 0.613048I$ $a = 1.43493 - 1.72189I$ $b = -1.55248 - 0.63641I$	$7.52474 + 4.19900I$	$4.30781 - 6.64099I$
$u = -0.401184 + 0.687267I$ $a = -0.832182 + 0.272529I$ $b = 1.287680 - 0.080245I$	$8.12227 - 0.25245I$	$4.74578 - 0.31294I$
$u = -0.401184 - 0.687267I$ $a = -0.832182 - 0.272529I$ $b = 1.287680 + 0.080245I$	$8.12227 + 0.25245I$	$4.74578 + 0.31294I$
$u = 0.411672 + 0.667315I$ $a = -0.830610 - 0.220703I$ $b = 1.44202 + 0.47832I$	$8.83402 + 8.79252I$	$0.88977 - 3.35804I$
$u = 0.411672 - 0.667315I$ $a = -0.830610 + 0.220703I$ $b = 1.44202 - 0.47832I$	$8.83402 - 8.79252I$	$0.88977 + 3.35804I$
$u = -0.529363 + 0.577415I$ $a = -0.135208 - 0.789858I$ $b = -0.209697 - 0.347656I$	$3.14595 + 2.98011I$	$-2.41069 - 2.46896I$
$u = -0.529363 - 0.577415I$ $a = -0.135208 + 0.789858I$ $b = -0.209697 + 0.347656I$	$3.14595 - 2.98011I$	$-2.41069 + 2.46896I$
$u = 0.480416 + 0.616913I$ $a = 0.579023 + 0.909776I$ $b = -1.58087 - 0.58209I$	$7.61770 + 0.01954I$	$4.76574 + 0.17184I$
$u = 0.480416 - 0.616913I$ $a = 0.579023 - 0.909776I$ $b = -1.58087 + 0.58209I$	$7.61770 - 0.01954I$	$4.76574 - 0.17184I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.494713+0.592724I$ $a=\ \ 3.16136-1.21835I$ $b=-1.125500-0.016130I$	$5.08899+2.02411I$	$-19.3118-1.4800I$
$u=-0.494713-0.592724I$ $a=\ \ 3.16136+1.21835I$ $b=-1.125500+0.016130I$	$5.08899-2.02411I$	$-19.3118+1.4800I$
$u=\ \ 0.438086+0.613550I$ $a=-0.671045+0.081730I$ $b=-0.234394-1.182410I$	$3.56479+3.06303I$	$-0.82722-2.95608I$
$u=\ \ 0.438086-0.613550I$ $a=-0.671045-0.081730I$ $b=-0.234394+1.182410I$	$3.56479-3.06303I$	$-0.82722+2.95608I$
$u=-0.454585+0.581796I$ $a=-0.700983+0.414818I$ $b=-0.299545+0.306129I$	$3.36686+0.99145I$	$-1.25975-4.73968I$
$u=-0.454585-0.581796I$ $a=-0.700983-0.414818I$ $b=-0.299545-0.306129I$	$3.36686-0.99145I$	$-1.25975+4.73968I$
$u=-0.662313+0.211934I$ $a=\ \ 0.35497-1.59761I$ $b=\ \ 0.052783-0.855449I$	$-2.18565+3.46642I$	$-10.30084-8.03918I$
$u=-0.662313-0.211934I$ $a=\ \ 0.35497+1.59761I$ $b=\ \ 0.052783+0.855449I$	$-2.18565-3.46642I$	$-10.30084+8.03918I$
$u=\ \ 0.582849+0.322676I$ $a=-1.21537-0.97656I$ $b=\ \ 0.305951-0.408414I$	$-1.56034-0.79420I$	$-10.59198+4.32165I$
$u=\ \ 0.582849-0.322676I$ $a=-1.21537+0.97656I$ $b=\ \ 0.305951+0.408414I$	$-1.56034+0.79420I$	$-10.59198-4.32165I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.036520+0.599242I$ $a=-0.827030+0.013934I$ $b=\ \ 1.257970-0.282910I$	$3.88684-4.68919I$	$2.22512+5.21190I$
$u=-0.036520-0.599242I$ $a=-0.827030-0.013934I$ $b=\ \ 1.257970+0.282910I$	$3.88684+4.68919I$	$2.22512-5.21190I$
$u=\ \ 0.563481$ $a=-0.745038$ $b=\ \ 0.0349557$	-0.922835	-10.6560
$u=\ \ 1.42367+0.20238I$ $a=\ \ 0.304978-0.285826I$ $b=\ \ 1.311050+0.004533I$	$2.29463-2.93841I$	0
$u=\ \ 1.42367-0.20238I$ $a=\ \ 0.304978+0.285826I$ $b=\ \ 1.311050-0.004533I$	$2.29463+2.93841I$	0
$u=-1.44300+0.19292I$ $a=\ \ 0.428691-0.138349I$ $b=\ \ 1.44221-0.43358I$	$2.88358-5.72307I$	0
$u=-1.44300-0.19292I$ $a=\ \ 0.428691+0.138349I$ $b=\ \ 1.44221+0.43358I$	$2.88358+5.72307I$	0
$u=-0.481253+0.252904I$ $a=-0.87479-2.48795I$ $b=-1.085940-0.463047I$	$1.84563+2.21443I$	$-1.06316-9.09042I$
$u=-0.481253-0.252904I$ $a=-0.87479+2.48795I$ $b=-1.085940+0.463047I$	$1.84563-2.21443I$	$-1.06316+9.09042I$
$u=-1.48480+0.16334I$ $a=-0.928276+0.982359I$ $b=-0.330290+1.148720I$	$-2.68476-0.33795I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.48480-0.16334I$ $a=-0.928276-0.982359I$ $b=-0.330290-1.148720I$	$-2.68476+0.33795I$	0
$u=\ 1.49604$ $a=-1.27137$ $b=-1.51544$	-3.24017	0
$u=\ 0.492260+0.077362I$ $a=-2.26092+6.41672I$ $b=-0.953862+0.013143I$	$0.798661-0.174787I$	$27.8903-10.4954I$
$u=\ 0.492260-0.077362I$ $a=-2.26092-6.41672I$ $b=-0.953862-0.013143I$	$0.798661+0.174787I$	$27.8903+10.4954I$
$u=\ 1.50405+0.15591I$ $a=-1.037770-0.828109I$ $b=-0.415857-0.300870I$	$-3.06301-3.56838I$	0
$u=\ 1.50405-0.15591I$ $a=-1.037770+0.828109I$ $b=-0.415857+0.300870I$	$-3.06301+3.56838I$	0
$u=-1.50575+0.17891I$ $a=-0.822676-0.369551I$ $b=-1.61992+0.52632I$	$1.10913+2.81557I$	0
$u=-1.50575-0.17891I$ $a=-0.822676+0.369551I$ $b=-1.61992-0.52632I$	$1.10913-2.81557I$	0
$u=\ 1.51956+0.04330I$ $a=-1.33810+1.94670I$ $b=-1.010310+0.705360I$	$-4.84400-3.13283I$	0
$u=\ 1.51956-0.04330I$ $a=-1.33810-1.94670I$ $b=-1.010310-0.705360I$	$-4.84400+3.13283I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.51829 + 0.17105I$ $a = 1.87369 + 1.53109I$ $b = -1.129620 + 0.048557I$	$-1.54754 - 4.74455I$	0
$u = 1.51829 - 0.17105I$ $a = 1.87369 - 1.53109I$ $b = -1.129620 - 0.048557I$	$-1.54754 + 4.74455I$	0
$u = -1.52209 + 0.18329I$ $a = -0.04272 - 2.17243I$ $b = -1.52902 - 0.69215I$	$0.82414 + 7.06092I$	0
$u = -1.52209 - 0.18329I$ $a = -0.04272 + 2.17243I$ $b = -1.52902 + 0.69215I$	$0.82414 - 7.06092I$	0
$u = -1.53326 + 0.01568I$ $a = -0.95067 - 3.21890I$ $b = -0.921461 - 0.114945I$	$-6.07296 + 0.47946I$	0
$u = -1.53326 - 0.01568I$ $a = -0.95067 + 3.21890I$ $b = -0.921461 + 0.114945I$	$-6.07296 - 0.47946I$	0
$u = 1.53565 + 0.17005I$ $a = -0.246452 + 0.988043I$ $b = -0.141987 + 0.396231I$	$-3.70464 - 5.66720I$	0
$u = 1.53565 - 0.17005I$ $a = -0.246452 - 0.988043I$ $b = -0.141987 - 0.396231I$	$-3.70464 + 5.66720I$	0
$u = -1.53946 + 0.18227I$ $a = 0.94700 - 1.54313I$ $b = -0.121748 - 1.253750I$	$-3.66455 + 10.03570I$	0
$u = -1.53946 - 0.18227I$ $a = 0.94700 + 1.54313I$ $b = -0.121748 + 1.253750I$	$-3.66455 - 10.03570I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.55599 + 0.08870I$ $a = -0.40942 + 1.36638I$ $b = 0.502249 + 0.525672I$	$-8.78367 + 2.27960I$	0
$u = -1.55599 - 0.08870I$ $a = -0.40942 - 1.36638I$ $b = 0.502249 - 0.525672I$	$-8.78367 - 2.27960I$	0
$u = -1.55314 + 0.19785I$ $a = 0.12361 + 2.22057I$ $b = 1.43690 + 0.53476I$	$1.2566 + 16.2112I$	0
$u = -1.55314 - 0.19785I$ $a = 0.12361 - 2.22057I$ $b = 1.43690 - 0.53476I$	$1.2566 - 16.2112I$	0
$u = -1.56614$ $a = -0.226660$ $b = 0.197297$	-8.25195	0
$u = 1.56818 + 0.04901I$ $a = 0.31464 + 1.98559I$ $b = 0.176625 + 0.965287I$	$-9.71978 - 4.36105I$	0
$u = 1.56818 - 0.04901I$ $a = 0.31464 - 1.98559I$ $b = 0.176625 - 0.965287I$	$-9.71978 + 4.36105I$	0
$u = 1.55754 + 0.20538I$ $a = 0.32466 - 1.44758I$ $b = 1.252100 - 0.181265I$	$0.42304 - 7.85842I$	0
$u = 1.55754 - 0.20538I$ $a = 0.32466 + 1.44758I$ $b = 1.252100 + 0.181265I$	$0.42304 + 7.85842I$	0
$u = 1.59711 + 0.08248I$ $a = 1.18450 - 1.70696I$ $b = 1.220860 - 0.468134I$	$-6.42327 - 9.43760I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.59711 - 0.08248I$ $a = 1.18450 + 1.70696I$ $b = 1.220860 + 0.468134I$	$-6.42327 + 9.43760I$	0
$u = 0.036693 + 0.376347I$ $a = -0.936023 - 0.126763I$ $b = -0.072076 + 0.554674I$	$-0.11372 - 1.47103I$	$-2.11863 + 4.15045I$
$u = 0.036693 - 0.376347I$ $a = -0.936023 + 0.126763I$ $b = -0.072076 - 0.554674I$	$-0.11372 + 1.47103I$	$-2.11863 - 4.15045I$
$u = -1.62917 + 0.04871I$ $a = 1.266120 + 0.059325I$ $b = 1.042950 - 0.146994I$	$-7.44987 - 0.45114I$	0
$u = -1.62917 - 0.04871I$ $a = 1.266120 - 0.059325I$ $b = 1.042950 + 0.146994I$	$-7.44987 + 0.45114I$	0
$u = -0.218991 + 0.259933I$ $a = -0.526450 - 0.951049I$ $b = -1.224660 + 0.170875I$	$2.56830 - 0.25125I$	$2.88791 - 3.66761I$
$u = -0.218991 - 0.259933I$ $a = -0.526450 + 0.951049I$ $b = -1.224660 - 0.170875I$	$2.56830 + 0.25125I$	$2.88791 + 3.66761I$

II. $I_2^u = \langle b - 1,\ a - u - 3,\ u^2 + u - 1\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ -u+1 \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} -u \\ -u+1 \end{pmatrix}$$
$$a_3 = \begin{pmatrix} u+3 \\ 1 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u+2 \\ 0 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} u+4 \\ 1 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 2u \\ u \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 1$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	u^2
c_2	$(u+1)^2$
c_3, c_4, c_{10} c_{11}, c_{12}	$u^2 - u - 1$
c_5	$(u-1)^2$
c_6, c_7, c_8 c_9	$u^2 + u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	y^2
c_2, c_5	$(y-1)^2$
c_3, c_4, c_6 c_7, c_8, c_9 c_{10}, c_{11}, c_{12}	$y^2 - 3y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.618034$ $a = 3.61803$ $b = 1.00000$	0.657974	1.00000
$u = -1.61803$ $a = 1.38197$ $b = 1.00000$	−7.23771	1.00000

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$u^2(u^{77} - 13u^{76} + \cdots + 28u - 4)$
c_2	$((u+1)^2)(u^{77} + 3u^{76} + \cdots - 28u - 1)$
c_3	$(u^2 - u - 1)(u^{77} + 2u^{76} + \cdots + 36927u - 10649)$
c_4	$(u^2 - u - 1)(u^{77} + 46u^{75} + \cdots - 3159u - 521)$
c_5	$((u-1)^2)(u^{77} + 3u^{76} + \cdots - 28u - 1)$
c_6, c_7	$(u^2 + u - 1)(u^{77} - 2u^{76} + \cdots + u - 1)$
c_8	$(u^2 + u - 1)(u^{77} - 4u^{76} + \cdots - u + 1)$
c_9	$(u^2 + u - 1)(u^{77} - 12u^{76} + \cdots - 7323u + 937)$
c_{10}, c_{11}	$(u^2 - u - 1)(u^{77} - 2u^{76} + \cdots + u - 1)$
c_{12}	$(u^2 - u - 1)(u^{77} - 12u^{76} + \cdots - 7323u + 937)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y^2(y^{77} + 15y^{76} + \cdots + 8y - 16)$
c_2, c_5	$((y-1)^2)(y^{77} - 59y^{76} + \cdots + 840y - 1)$
c_3	$(y^2 - 3y + 1)(y^{77} + 36y^{76} + \cdots + 7.03701 \times 10^9 y - 1.13401 \times 10^8)$
c_4	$(y^2 - 3y + 1)(y^{77} + 92y^{76} + \cdots + 6188485y - 271441)$
c_6, c_7, c_{10} c_{11}	$(y^2 - 3y + 1)(y^{77} - 84y^{76} + \cdots + 9y - 1)$
c_8	$(y^2 - 3y + 1)(y^{77} - 16y^{76} + \cdots + 9y - 1)$
c_9, c_{12}	$(y^2 - 3y + 1)(y^{77} + 60y^{76} + \cdots - 6663999y - 877969)$