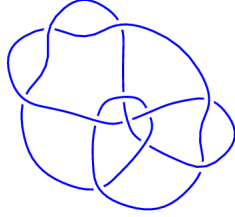
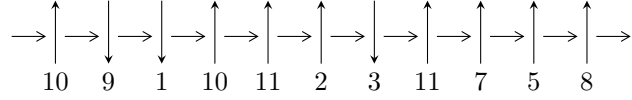


11n₁₅₉ (K11n₁₅₉)

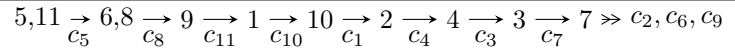


1

Arc Sequences



Solving Sequence



Representation Ideals

$$I = \bigcap_{i=1}^2 I_i^u$$

$$I_1^u = \langle u^{16} - 3u^{15} + 3u^{14} + 12u^{13} - 48u^{12} + 56u^{11} - 53u^9 + 273u^8 - 41u^7 - 195u^6 + 4u^5 + 18u^4 + 92u^3 - 56u^2 + 3.16949 \times 10^{17}u^{15} - 7.07957 \times 10^{17}u^{14} + \dots + 1.32086 \times 10^{18}b - 1.55276 \times 10^{18}, 9.26588 \times 10^{17}u^{15} - 2.45910 \times 10^{18}u^{14} + \dots + 1.32086 \times 10^{18}a - 2.29756 \times 10^{18} \rangle$$

$$I_2^u = \langle u^{51} - 34u^{49} + \dots - 38412u + 7316, 1.45415 \times 10^{228}u^{50} + 8.60197 \times 10^{227}u^{49} + \dots + 6.33871 \times 10^{230}b - 1.67155 \times 10^{232}, 1.21828 \times 10^{232}u^{50} + 6.24948 \times 10^{231}u^{49} + \dots + 2.31870 \times 10^{234}a - 1.33856 \times 10^{236} \rangle$$

There are 2 irreducible components with 67 representations.

¹The knot diagram image is adapter from “C. Livingston and A. H. Moore, KnotInfo: Table of Knot Invariants, <http://www.indiana.edu/~knotinfo>”

$$\begin{aligned} & \mathbf{I. } I_1^u = \\ & \langle u^{16} - 3u^{15} + \dots - 56u^2 + 4, 3.17 \times 10^{17} u^{15} - 7.08 \times 10^{17} u^{14} + \dots + 1.32 \times 10^{18} b - \\ & 1.55 \times 10^{18}, 9.27 \times 10^{17} u^{15} - 2.46 \times 10^{18} u^{14} + \dots + 1.32 \times 10^{18} a - 2.30 \times 10^{18} \rangle \end{aligned}$$

(i) Arc colorings

$$\begin{aligned} a_5 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -0.701502u^{15} + 1.86173u^{14} + \dots + 17.6190u + 1.73944 \\ -0.239956u^{15} + 0.535981u^{14} + \dots - 0.776797u + 1.17556 \end{pmatrix} \\ a_6 &= \begin{pmatrix} -0.926114u^{15} + 2.28655u^{14} + \dots + 7.85036u + 9.38981 \\ -0.652004u^{15} + 1.54407u^{14} + \dots + 3.97597u + 3.39278 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_9 &= \begin{pmatrix} -0.0605993u^{15} + 0.172207u^{14} + \dots + 5.99307u - 5.68242 \\ 0.491797u^{15} - 1.27320u^{14} + \dots - 7.38981u - 3.70446 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -0.701502u^{15} + 1.86173u^{14} + \dots + 17.6190u + 1.73944 \\ -0.122329u^{15} + 0.233345u^{14} + \dots - 3.58281u + 0.204471 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -0.461546u^{15} + 1.32575u^{14} + \dots + 18.3958u + 0.563874 \\ -0.239956u^{15} + 0.535981u^{14} + \dots - 0.776797u + 1.17556 \end{pmatrix} \\ a_2 &= \begin{pmatrix} -0.308338u^{15} + 0.599709u^{14} + \dots - 8.52734u + 5.30417 \\ 0.529675u^{15} - 1.31073u^{14} + \dots - 7.55877u - 4.18831 \end{pmatrix} \\ a_4 &= \begin{pmatrix} 0.274110u^{15} - 0.742474u^{14} + \dots - 3.87439u - 3.99703 \\ 0.652004u^{15} - 1.54407u^{14} + \dots - 3.97597u - 3.39278 \end{pmatrix} \\ a_3 &= \begin{pmatrix} 0.0341537u^{15} - 0.206494u^{14} + \dots - 4.65119u - 3.82147 \\ 1.13480u^{15} - 2.79387u^{14} + \dots - 13.3924u - 7.91133 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -0.335168u^{15} + 1.08785u^{14} + \dots + 14.0657u + 4.41868 \\ -1.35331u^{15} + 3.31553u^{14} + \dots + 13.6398u + 8.89533 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -0.335168u^{15} + 1.08785u^{14} + \dots + 14.0657u + 4.41868 \\ -1.35331u^{15} + 3.31553u^{14} + \dots + 13.6398u + 8.89533 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -2.36684$ $a = 0.677361$ $b = 1.55538$	7.57445	-38.0720
$u = -1.161410 - 0.095564I$ $a = -0.346013 + 1.040218I$ $b = -0.586743 + 0.122702I$	$-1.52177 - 5.31010I$	$3.27149 + 8.11960I$
$u = -1.161410 + 0.095564I$ $a = -0.346013 - 1.040218I$ $b = -0.586743 - 0.122702I$	$-1.52177 + 5.31010I$	$3.27149 - 8.11960I$
$u = -0.377131 - 0.656461I$ $a = -1.215041 + 0.315082I$ $b = -0.961986 + 0.640032I$	$-3.33249 - 0.34499I$	$2.01757 - 0.37341I$
$u = -0.377131 + 0.656461I$ $a = -1.215041 - 0.315082I$ $b = -0.961986 - 0.640032I$	$-3.33249 + 0.34499I$	$2.01757 + 0.37341I$
$u = -0.228520$ $a = -5.57510$ $b = 0.425060$	2.72211	31.3502
$u = 0.07571 - 1.67351I$ $a = -0.437584 - 0.030033I$ $b = 1.255520 + 0.125305I$	$3.97957 + 3.37369I$	$2.06218 - 1.25376I$
$u = 0.07571 + 1.67351I$ $a = -0.437584 + 0.030033I$ $b = 1.255520 - 0.125305I$	$3.97957 - 3.37369I$	$2.06218 + 1.25376I$
$u = 0.494902 - 0.214225I$ $a = -1.47481 + 1.80275I$ $b = -1.330788 + 0.053274I$	$1.66733 - 5.08939I$	$7.99749 + 6.39804I$
$u = 0.494902 + 0.214225I$ $a = -1.47481 - 1.80275I$ $b = -1.330788 - 0.053274I$	$1.66733 + 5.08939I$	$7.99749 - 6.39804I$

Solution to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.615830 - 0.101124I$	$-3.32910 - 4.68558I$	$-1.72806 + 9.06253I$
$a = -0.656078 + 0.968979I$		
$b = -0.934791 + 0.689406I$		
$u = 0.615830 + 0.101124I$	$-3.32910 + 4.68558I$	$-1.72806 - 9.06253I$
$a = -0.656078 - 0.968979I$		
$b = -0.934791 - 0.689406I$		
$u = 1.08865 - 2.23627I$	$1.44991 + 2.46756I$	$14.2433 - 0.1322I$
$a = 0.238082 - 0.072838I$		
$b = 0.638027 - 0.074543I$		
$u = 1.08865 + 2.23627I$	$1.44991 - 2.46756I$	$14.2433 + 0.1322I$
$a = 0.238082 + 0.072838I$		
$b = 0.638027 + 0.074543I$		
$u = 2.06113 - 0.76403I$	$-7.35161 + 3.81019I$	$1.49699 - 3.24326I$
$a = -0.159682 + 0.607574I$		
$b = 0.93054 + 1.06757I$		
$u = 2.06113 + 0.76403I$	$-7.35161 - 3.81019I$	$1.49699 + 3.24326I$
$a = -0.159682 - 0.607574I$		
$b = 0.93054 - 1.06757I$		

$$\text{II. } I_2^u = \langle u^{51} - 34u^{49} + \dots - 38412u + 7316, 1.45 \times 10^{228}u^{50} + 8.60 \times 10^{227}u^{49} + \dots + 6.34 \times 10^{230}b - 1.67 \times 10^{232}, 1.22 \times 10^{232}u^{50} + 6.25 \times 10^{231}u^{49} + \dots + 2.32 \times 10^{234}a - 1.34 \times 10^{236} \rangle$$

(i) Arc colorings

$$\begin{aligned} a_5 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -0.00525414u^{50} - 0.00269525u^{49} + \dots - 247.225u + 57.7291 \\ -0.00229408u^{50} - 0.00135705u^{49} + \dots - 111.456u + 26.3705 \end{pmatrix} \\ a_6 &= \begin{pmatrix} -0.00296957u^{50} - 0.00162766u^{49} + \dots - 131.251u + 27.2276 \\ -0.00440175u^{50} - 0.00213971u^{49} + \dots - 214.319u + 59.2652 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_9 &= \begin{pmatrix} -0.00115778u^{50} + 0.000735404u^{49} + \dots - 138.952u + 69.7801 \\ 0.00162766u^{50} + 0.000739317u^{49} + \dots + 88.8394u - 21.7254 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -0.00525414u^{50} - 0.00269525u^{49} + \dots - 247.225u + 57.7291 \\ -0.00104626u^{50} - 0.000871739u^{49} + \dots - 46.3650u + 6.65203 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -0.00296006u^{50} - 0.00133820u^{49} + \dots - 135.769u + 31.3586 \\ -0.00229408u^{50} - 0.00135705u^{49} + \dots - 111.456u + 26.3705 \end{pmatrix} \\ a_2 &= \begin{pmatrix} -0.0184954u^{50} - 0.00843906u^{49} + \dots - 980.077u + 269.220 \\ 0.00386291u^{50} + 0.00169577u^{49} + \dots + 191.570u - 53.8895 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -0.00143218u^{50} - 0.000512051u^{49} + \dots - 83.0680u + 34.0376 \\ 0.00440175u^{50} + 0.00213971u^{49} + \dots + 214.319u - 59.2652 \end{pmatrix} \\ a_3 &= \begin{pmatrix} -0.0112004u^{50} - 0.00401831u^{49} + \dots - 610.861u + 198.564 \\ 0.00450096u^{50} + 0.00137021u^{49} + \dots + 252.703u - 82.8963 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -0.00351161u^{50} - 0.00346346u^{49} + \dots - 100.687u - 8.08016 \\ 0.00129940u^{50} + 0.000481082u^{49} + \dots + 68.4875u - 24.4037 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -0.00351161u^{50} - 0.00346346u^{49} + \dots - 100.687u - 8.08016 \\ 0.00129940u^{50} + 0.000481082u^{49} + \dots + 68.4875u - 24.4037 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -2.38629$ $a = -0.647409$ $b = -1.52947$	7.66230	53.2495
$u = -2.37629 - 0.46498I$ $a = -0.127338 + 0.649402I$ $b = -1.18021 + 0.96200I$	$-9.1940 - 15.1810I$	$2.73248 + 7.71054I$
$u = -2.37629 + 0.46498I$ $a = -0.127338 - 0.649402I$ $b = -1.18021 - 0.96200I$	$-9.1940 + 15.1810I$	$2.73248 - 7.71054I$
$u = -2.28181 - 0.57934I$ $a = -0.110451 - 0.549019I$ $b = 1.038830 - 0.830920I$	$-7.59339 - 1.64029I$	$-1.00681 - 1.43004I$
$u = -2.28181 + 0.57934I$ $a = -0.110451 + 0.549019I$ $b = 1.038830 + 0.830920I$	$-7.59339 + 1.64029I$	$-1.00681 + 1.43004I$
$u = -2.06822 - 1.02485I$ $a = -0.221493 - 0.563667I$ $b = 0.841737 - 0.908889I$	$-8.21456 - 4.85073I$	$-3.48162 + 7.40715I$
$u = -2.06822 + 1.02485I$ $a = -0.221493 + 0.563667I$ $b = 0.841737 + 0.908889I$	$-8.21456 + 4.85073I$	$-3.48162 - 7.40715I$
$u = -1.55773 - 0.55114I$ $a = 0.571127 + 0.797456I$ $b = -0.83700 + 1.22014I$	$-10.36515 + 7.36778I$	$1.14610 - 3.78229I$
$u = -1.55773 + 0.55114I$ $a = 0.571127 - 0.797456I$ $b = -0.83700 - 1.22014I$	$-10.36515 - 7.36778I$	$1.14610 + 3.78229I$
$u = -1.53991 - 0.85223I$ $a = -0.520884 - 0.378590I$ $b = -0.656206 - 0.469667I$	$-1.69267 + 6.49416I$	$2.47045 - 12.27311I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.53991 + 0.85223I$ $a = -0.520884 + 0.378590I$ $b = -0.656206 + 0.469667I$	$-1.69267 - 6.49416I$	$2.47045 + 12.27311I$
$u = -1.24329 - 0.75083I$ $a = -0.334468 - 0.990349I$ $b = 0.423218 - 0.667986I$	$-3.16584 - 5.71287I$	$1.14428 + 8.06159I$
$u = -1.24329 + 0.75083I$ $a = -0.334468 + 0.990349I$ $b = 0.423218 + 0.667986I$	$-3.16584 + 5.71287I$	$1.14428 - 8.06159I$
$u = -1.02313 - 1.01983I$ $a = 0.620456 + 0.528966I$ $b = 1.064110 + 0.166907I$	$-0.53609 - 2.28831I$	$3.93640 + 2.00082I$
$u = -1.02313 + 1.01983I$ $a = 0.620456 - 0.528966I$ $b = 1.064110 - 0.166907I$	$-0.53609 + 2.28831I$	$3.93640 - 2.00082I$
$u = -0.592682 - 0.555401I$ $a = 1.54610 - 0.87819I$ $b = 1.04433 - 0.98128I$	$-4.12435 + 1.05287I$	$0.46055 - 2.90458I$
$u = -0.592682 + 0.555401I$ $a = 1.54610 + 0.87819I$ $b = 1.04433 + 0.98128I$	$-4.12435 - 1.05287I$	$0.46055 + 2.90458I$
$u = -0.510268 - 0.017817I$ $a = 1.48241 + 0.70636I$ $b = 0.590936 + 0.281707I$	$1.328987 + 0.424799I$	$9.68382 - 3.33114I$
$u = -0.510268 + 0.017817I$ $a = 1.48241 - 0.70636I$ $b = 0.590936 - 0.281707I$	$1.328987 - 0.424799I$	$9.68382 + 3.33114I$
$u = -0.392233$ $a = 3.38822$ $b = -0.202368$	2.55208	-16.4856

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.311992$ $a = 1.70410$ $b = 0.745090$	1.10699	8.71624
$u = -0.16119 - 1.62879I$ $a = 0.194743 + 0.027405I$ $b = -1.209941 - 0.110828I$	$4.50411 + 3.58227I$	$16.0667 - 6.6127I$
$u = -0.16119 + 1.62879I$ $a = 0.194743 - 0.027405I$ $b = -1.209941 + 0.110828I$	$4.50411 - 3.58227I$	$16.0667 + 6.6127I$
$u = 0.090556 - 0.440679I$ $a = 0.338264 + 0.064793I$ $b = -0.965350 - 0.733322I$	$-2.97946 + 4.11273I$	$4.99561 + 1.01748I$
$u = 0.090556 + 0.440679I$ $a = 0.338264 - 0.064793I$ $b = -0.965350 + 0.733322I$	$-2.97946 - 4.11273I$	$4.99561 - 1.01748I$
$u = 0.345885 - 0.807680I$ $a = -0.626153 + 0.879066I$ $b = -0.460423 - 0.213816I$	$-3.18456 + 2.09749I$	$1.52387 - 2.56668I$
$u = 0.345885 + 0.807680I$ $a = -0.626153 - 0.879066I$ $b = -0.460423 + 0.213816I$	$-3.18456 - 2.09749I$	$1.52387 + 2.56668I$
$u = 0.415759 - 0.165762I$ $a = -0.36088 - 2.71304I$ $b = -0.788429 - 0.102113I$	$-0.82395 + 4.71884I$	$8.89552 - 4.87376I$
$u = 0.415759 + 0.165762I$ $a = -0.36088 + 2.71304I$ $b = -0.788429 + 0.102113I$	$-0.82395 - 4.71884I$	$8.89552 + 4.87376I$
$u = 0.470782 - 0.141394I$ $a = 0.391310 - 0.101889I$ $b = -0.752804 + 0.724541I$	$-3.57803 - 1.46219I$	$0.29485 + 4.98451I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.470782 + 0.141394I$ $a = 0.391310 + 0.101889I$ $b = -0.752804 - 0.724541I$	$-3.57803 + 1.46219I$	$0.29485 - 4.98451I$
$u = 0.589639 - 0.285800I$ $a = 1.050199 - 0.048592I$ $b = 0.318964 + 0.525247I$	$0.18643 + 2.24007I$	$4.31467 - 4.82703I$
$u = 0.589639 + 0.285800I$ $a = 1.050199 + 0.048592I$ $b = 0.318964 - 0.525247I$	$0.18643 - 2.24007I$	$4.31467 + 4.82703I$
$u = 0.592081 - 0.474386I$ $a = 1.39245 + 1.18413I$ $b = 0.965038 + 0.987508I$	$-4.33426 + 8.28696I$	$3.05654 - 6.59545I$
$u = 0.592081 + 0.474386I$ $a = 1.39245 - 1.18413I$ $b = 0.965038 - 0.987508I$	$-4.33426 - 8.28696I$	$3.05654 + 6.59545I$
$u = 0.818290 - 0.099735I$ $a = -0.06664 + 1.58947I$ $b = 1.50242 + 0.25890I$	$0.75736 + 4.17149I$	$1.94325 - 1.93943I$
$u = 0.818290 + 0.099735I$ $a = -0.06664 - 1.58947I$ $b = 1.50242 - 0.25890I$	$0.75736 - 4.17149I$	$1.94325 + 1.93943I$
$u = 0.87425 - 2.17955I$ $a = 0.299163 - 0.102570I$ $b = -0.248978 - 0.026080I$	$0.97092 + 2.65596I$	$-1.16196 - 5.22442I$
$u = 0.87425 + 2.17955I$ $a = 0.299163 + 0.102570I$ $b = -0.248978 + 0.026080I$	$0.97092 - 2.65596I$	$-1.16196 + 5.22442I$
$u = 1.377274 - 0.174891I$ $a = -0.221169 - 0.776602I$ $b = -0.835661 - 0.381025I$	$-1.47252 + 3.57882I$	$5.02464 - 4.02671I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.377274 + 0.174891I$ $a = -0.221169 + 0.776602I$ $b = -0.835661 + 0.381025I$	$-1.47252 - 3.57882I$	$5.02464 + 4.02671I$
$u = 1.42034 - 0.42459I$ $a = 0.684601 - 0.962006I$ $b = -0.77539 - 1.18366I$	$-9.56909 + 0.79682I$	$-0.499984 - 0.266984I$
$u = 1.42034 + 0.42459I$ $a = 0.684601 + 0.962006I$ $b = -0.77539 + 1.18366I$	$-9.56909 - 0.79682I$	$-0.499984 + 0.266984I$
$u = 1.50417 - 0.21769I$ $a = 0.085193 + 0.865353I$ $b = 0.119557 + 0.894385I$	$-4.26515 + 0.63551I$	$-0.338676 + 0.991047I$
$u = 1.50417 + 0.21769I$ $a = 0.085193 - 0.865353I$ $b = 0.119557 - 0.894385I$	$-4.26515 - 0.63551I$	$-0.338676 - 0.991047I$
$u = 2.01327 - 0.78642I$ $a = -0.172310 + 0.575098I$ $b = 1.21747 + 1.06307I$	$-6.78593 + 5.05905I$	$0.50964 - 9.05421I$
$u = 2.01327 + 0.78642I$ $a = -0.172310 - 0.575098I$ $b = 1.21747 - 1.06307I$	$-6.78593 - 5.05905I$	$0.50964 + 9.05421I$
$u = 2.08330 - 0.73020I$ $a = -0.124708 + 0.588162I$ $b = 0.78943 + 1.25281I$	$-8.06935 + 3.19037I$	$-7.11325 + 0.50531I$
$u = 2.08330 + 0.73020I$ $a = -0.124708 - 0.588162I$ $b = 0.78943 - 1.25281I$	$-8.06935 - 3.19037I$	$-7.11325 - 0.50531I$
$u = 2.30420 - 0.31137I$ $a = -0.210667 - 0.701356I$ $b = -1.21227 - 0.95119I$	$-8.17422 + 6.90097I$	$1.66288 - 5.67986I$
Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 2.30420 + 0.31137I$ $a = -0.210667 + 0.701356I$ $b = -1.21227 + 0.95119I$	$-8.17422 - 6.90097I$	$1.66288 + 5.67986I$

III. u-Polynomials

Crossings	u-Polynomials at each crossings
c_1	$(u^{16} - u^{15} + \dots + 6u^2 - 1)(u^{51} + 4u^{50} + \dots + 10304u + 1139)$
c_2	$(u^{16} + u^{14} + \dots - 3u - 1)(u^{51} + u^{50} + \dots + 197u + 3)$
c_3	$(u^{16} + 9u^{15} + \dots + 48u + 4)(u^{51} + 4u^{50} + \dots - 668u + 28)$
c_4, c_5	$(u^{16} - 6u^{14} + \dots - u + 1)(u^{51} + u^{50} + \dots - 15u - 1)$
c_6	$(u^{16} - 3u^{15} + \dots - 3u - 1)(u^{51} + 14u^{49} + \dots - 3611u - 487)$
c_7	$(u^{16} + 2u^{14} + \dots - 2u - 1)(u^{51} + u^{50} + \dots + 2734u + 367)$
c_8	$(u^{16} + u^{15} + \dots - u - 1)(u^{51} + 19u^{49} + \dots + 13u + 1)$
c_9	$(u^{16} - 4u^{15} + \dots + 3u + 1)(u^{51} + 3u^{50} + \dots + 17u + 1)$
c_{10}	$(u^{16} - 6u^{14} + \dots + u + 1)(u^{51} + u^{50} + \dots - 15u - 1)$
c_{11}	$(u^{16} - u^{15} + \dots + u - 1)(u^{51} + 19u^{49} + \dots + 13u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossings
c_1	$(y^{16} + y^{15} + \dots - 12y + 1)$ $(y^{51} + 48y^{50} + \dots + 51493582y - 1297321)$
c_2	$(y^{16} + 2y^{15} + \dots - 15y + 1)(y^{51} - 11y^{50} + \dots + 48673y - 9)$
c_3	$(y^{16} - 13y^{15} + \dots - 1600y + 16)(y^{51} - 54y^{50} + \dots + 361104y - 784)$
c_4, c_5, c_{10}	$(y^{16} - 12y^{15} + \dots - 19y + 1)(y^{51} - 13y^{50} + \dots + 69y - 1)$
c_6	$(y^{16} + 5y^{15} + \dots - 11y + 1)$ $(y^{51} + 28y^{50} + \dots - 14382675y - 237169)$
c_7	$(y^{16} + 4y^{15} + \dots - 12y + 1)(y^{51} - 13y^{50} + \dots + 4303142y - 134689)$
c_8, c_{11}	$(y^{16} + 7y^{15} + \dots + 13y + 1)(y^{51} + 38y^{50} + \dots - 63y - 1)$
c_9	$(y^{16} - 4y^{15} + \dots - 9y + 1)(y^{51} + 3y^{50} + \dots + 231y - 1)$