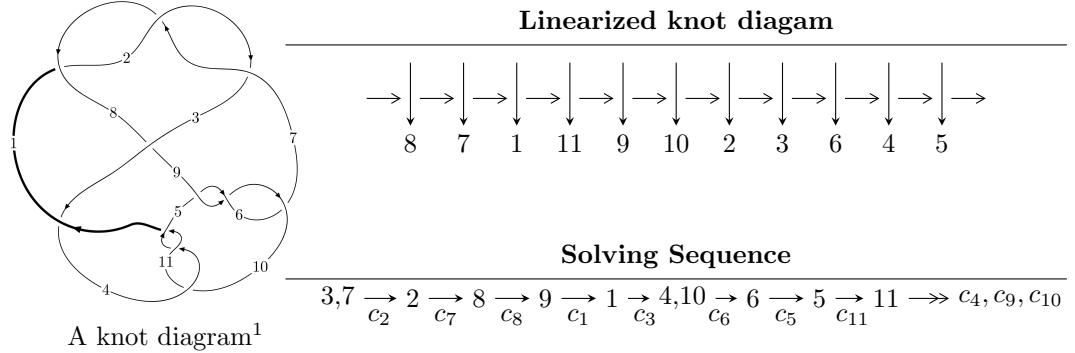


## $11a_{340}$ ( $K11a_{340}$ )



### Ideals for irreducible components<sup>2</sup> of $X_{\text{par}}$

$$\begin{aligned}
 I_1^u &= \langle -u^{16} + 2u^{15} + \dots + b - 1, \ u^{17} - u^{16} + \dots + 2a + 6u, \ u^{18} - 3u^{17} + \dots - 4u + 2 \rangle \\
 I_2^u &= \langle u^{12}a + u^{11}a + \dots + b + a, \ u^{12} + u^{11} + \dots + a^2 - a, \\
 &\quad u^{14} + u^{13} + 7u^{12} + 6u^{11} + 18u^{10} + 13u^9 + 19u^8 + 10u^7 + 4u^6 - 2u^5 - 4u^4 - 4u^3 + u + 1 \rangle \\
 I_3^u &= \langle b - 1, \ 2a + u, \ u^2 + 2 \rangle
 \end{aligned}$$

$$I_1^v = \langle a, \ b + 1, \ v + 1 \rangle$$

\* 4 irreducible components of  $\dim_{\mathbb{C}} = 0$ , with total 49 representations.

---

<sup>1</sup>The image of knot diagram is generated by the software “**Draw programme**” developed by Andrew Bartholomew(<http://www.layer8.co.uk/math/draw/index.htm#Running-draw>), where we modified some parts for our purpose(<https://github.com/CATsTAILs/LinksPainter>).

<sup>2</sup>All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

$$I_1^u = \langle -u^{16} + 2u^{15} + \dots + b - 1, u^{17} - u^{16} + \dots + 2a + 6u, u^{18} - 3u^{17} + \dots - 4u + 2 \rangle^{\text{I.}}$$

(i) Arc colorings

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -u \\ u^3 + u \end{pmatrix} \\ a_9 &= \begin{pmatrix} -u^3 - 2u \\ u^3 + u \end{pmatrix} \\ a_1 &= \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -u^6 - 3u^4 - 2u^2 + 1 \\ u^8 + 4u^6 + 4u^4 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -\frac{1}{2}u^{17} + \frac{1}{2}u^{16} + \dots + u^2 - 3u \\ u^{16} - 2u^{15} + \dots - 3u^2 + 1 \end{pmatrix} \\ a_6 &= \begin{pmatrix} \frac{1}{2}u^{17} - \frac{3}{2}u^{16} + \dots + 2u - 2 \\ u^{14} - u^{13} + \dots + u + 1 \end{pmatrix} \\ a_5 &= \begin{pmatrix} \frac{3}{2}u^{17} - \frac{9}{2}u^{16} + \dots + 6u - 6 \\ -u^{15} + 3u^{14} + \dots - 12u^2 + 3 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -\frac{1}{2}u^{17} + \frac{1}{2}u^{16} + \dots - u + 1 \\ u^{17} - 2u^{16} + \dots + 2u - 1 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -\frac{1}{2}u^{17} + \frac{1}{2}u^{16} + \dots - u + 1 \\ u^{17} - 2u^{16} + \dots + 2u - 1 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

$$(iii) \text{ Cusp Shapes} = 2u^{17} - 6u^{16} + 26u^{15} - 50u^{14} + 118u^{13} - 156u^{12} + 242u^{11} - 212u^{10} + 202u^9 - 66u^8 - 28u^7 + 128u^6 - 124u^5 + 98u^4 - 14u^3 - 16u^2 + 22u - 12$$

**(iv) u-Polynomials at the component**

Crossings	u-Polynomials at each crossing
$c_1, c_2, c_7$	$u^{18} - 3u^{17} + \cdots - 4u + 2$
$c_3$	$u^{18} - 3u^{17} + \cdots - 144u^2 + 16$
$c_4, c_5, c_6$ $c_9, c_{10}, c_{11}$	$u^{18} + u^{17} + \cdots - u - 1$
$c_8$	$u^{18} + 3u^{17} + \cdots + 24u + 34$

**(v) Riley Polynomials at the component**

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_7$	$y^{18} + 17y^{17} + \dots - 32y + 4$
$c_3$	$y^{18} + 5y^{17} + \dots - 4608y + 256$
$c_4, c_5, c_6$ $c_9, c_{10}, c_{11}$	$y^{18} - 19y^{17} + \dots - 13y + 1$
$c_8$	$y^{18} + 5y^{17} + \dots - 4384y + 1156$

(vi) Complex Volumes and Cusp Shapes

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.536324 + 0.718976I$		
$a = -0.69596 + 1.40617I$	$-6.73513 + 4.54783I$	$-15.8301 - 1.8142I$
$b = 0.807347 + 0.538462I$		
$u = 0.536324 - 0.718976I$		
$a = -0.69596 - 1.40617I$	$-6.73513 - 4.54783I$	$-15.8301 + 1.8142I$
$b = 0.807347 - 0.538462I$		
$u = 0.775406 + 0.334408I$		
$a = 1.67997 - 0.31282I$	$-8.01786 - 9.07750I$	$-17.1458 + 6.7523I$
$b = -2.01461 + 0.21828I$		
$u = 0.775406 - 0.334408I$		
$a = 1.67997 + 0.31282I$	$-8.01786 + 9.07750I$	$-17.1458 - 6.7523I$
$b = -2.01461 - 0.21828I$		
$u = -0.809273$		
$a = -1.82368$	$-12.4435$	$-20.5970$
$b = 2.15054$		
$u = -0.363479 + 1.186890I$		
$a = 0.413807 + 1.111040I$	$-8.78390 + 4.21996I$	$-16.6895 - 3.5646I$
$b = -1.61785 + 1.19506I$		
$u = -0.363479 - 1.186890I$		
$a = 0.413807 - 1.111040I$	$-8.78390 - 4.21996I$	$-16.6895 + 3.5646I$
$b = -1.61785 - 1.19506I$		
$u = -0.042738 + 1.319350I$		
$a = -0.240648 - 0.315054I$	$3.51645 + 1.27379I$	$-7.18490 - 5.17198I$
$b = 0.458014 - 0.563844I$		
$u = -0.042738 - 1.319350I$		
$a = -0.240648 + 0.315054I$	$3.51645 - 1.27379I$	$-7.18490 + 5.17198I$
$b = 0.458014 + 0.563844I$		
$u = 0.550592 + 0.360230I$		
$a = -0.671067 - 0.760810I$	$1.75017 - 1.69601I$	$-7.17935 + 4.88688I$
$b = 0.463787 + 0.211202I$		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.550592 - 0.360230I$		
$a = -0.671067 + 0.760810I$	$1.75017 + 1.69601I$	$-7.17935 - 4.88688I$
$b = 0.463787 - 0.211202I$		
$u = 0.21362 + 1.42778I$		
$a = 0.548707 - 0.014230I$	$7.46429 - 4.53021I$	$-4.17935 + 4.22610I$
$b = -1.26192 - 0.75164I$		
$u = 0.21362 - 1.42778I$		
$a = 0.548707 + 0.014230I$	$7.46429 + 4.53021I$	$-4.17935 - 4.22610I$
$b = -1.26192 + 0.75164I$		
$u = 0.30373 + 1.44463I$		
$a = -0.438796 + 0.877410I$	$-2.32354 - 12.99620I$	$-12.9688 + 7.3705I$
$b = 2.64593 + 0.70371I$		
$u = 0.30373 - 1.44463I$		
$a = -0.438796 - 0.877410I$	$-2.32354 + 12.99620I$	$-12.9688 - 7.3705I$
$b = 2.64593 - 0.70371I$		
$u = 0.10546 + 1.52636I$		
$a = -0.085263 - 0.844947I$	$0.70132 + 2.48793I$	$-13.16040 - 3.49031I$
$b = 0.103194 + 0.177421I$		
$u = 0.10546 - 1.52636I$		
$a = -0.085263 + 0.844947I$	$0.70132 - 2.48793I$	$-13.16040 + 3.49031I$
$b = 0.103194 - 0.177421I$		
$u = -0.348560$		
$a = 0.802182$	$-0.533570$	$-18.7260$
$b = -0.318335$		

$$I_2^u = \langle u^{12}a + u^{11}a + \dots + b + a, \ u^{12} + u^{11} + \dots + a^2 - a, \ u^{14} + u^{13} + \dots + u + 1 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -u \\ u^3 + u \end{pmatrix} \\ a_9 &= \begin{pmatrix} -u^3 - 2u \\ u^3 + u \end{pmatrix} \\ a_1 &= \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -u^6 - 3u^4 - 2u^2 + 1 \\ u^8 + 4u^6 + 4u^4 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} a \\ -u^{12}a - u^{11}a + \dots - au - a \end{pmatrix} \\ a_6 &= \begin{pmatrix} -u^{13} - u^{12} + \dots + au + 2u^2 \\ u^{12}a + u^{13} + \dots - 2u^3 - u^2 \end{pmatrix} \\ a_5 &= \begin{pmatrix} -u^{13} - u^{12} + \dots + au + 2u^2 \\ u^{12}a + u^{13} + \dots + u^2a - u^2 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} u^{10} + 5u^8 + \dots + a + 1 \\ -u^{12}a - u^{11}a + \dots - a + u \end{pmatrix} \\ a_{11} &= \begin{pmatrix} u^{10} + 5u^8 + \dots + a + 1 \\ -u^{12}a - u^{11}a + \dots - a + u \end{pmatrix} \end{aligned}$$

(ii) **Obstruction class** = -1

(iii) **Cusp Shapes**

$$= 4u^{12} + 4u^{11} + 24u^{10} + 20u^9 + 52u^8 + 32u^7 + 44u^6 + 8u^5 + 4u^4 - 16u^3 - 8u^2 - 4u - 10$$

**(iv) u-Polynomials at the component**

Crossings	u-Polynomials at each crossing
$c_1, c_2, c_7$	$(u^{14} + u^{13} + \cdots + u + 1)^2$
$c_3$	$(u^{14} - 3u^{13} + \cdots - 7u + 3)^2$
$c_4, c_5, c_6$ $c_9, c_{10}, c_{11}$	$u^{28} + u^{27} + \cdots - 4u + 3$
$c_8$	$(u^{14} - u^{13} + \cdots + 3u + 1)^2$

**(v) Riley Polynomials at the component**

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_7$	$(y^{14} + 13y^{13} + \cdots - y + 1)^2$
$c_3$	$(y^{14} + 5y^{13} + \cdots + 23y + 9)^2$
$c_4, c_5, c_6$ $c_9, c_{10}, c_{11}$	$y^{28} - 21y^{27} + \cdots + 32y + 9$
$c_8$	$(y^{14} + y^{13} + \cdots - y + 1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to $I_2^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.135360 + 1.128160I$		
$a = -0.171103 + 1.160650I$	$-1.84948 - 2.19128I$	$-13.23919 + 3.85718I$
$b = 0.93567 + 2.14908I$		
$u = 0.135360 + 1.128160I$		
$a = 0.584560 - 0.465439I$	$-1.84948 - 2.19128I$	$-13.23919 + 3.85718I$
$b = -0.888411 - 0.124832I$		
$u = 0.135360 - 1.128160I$		
$a = -0.171103 - 1.160650I$	$-1.84948 + 2.19128I$	$-13.23919 - 3.85718I$
$b = 0.93567 - 2.14908I$		
$u = 0.135360 - 1.128160I$		
$a = 0.584560 + 0.465439I$	$-1.84948 + 2.19128I$	$-13.23919 - 3.85718I$
$b = -0.888411 + 0.124832I$		
$u = -0.681829 + 0.299736I$		
$a = 0.743891 - 0.831039I$	$-2.72606 + 5.07185I$	$-13.6715 - 6.3313I$
$b = -0.514590 + 0.182971I$		
$u = -0.681829 + 0.299736I$		
$a = -1.77480 - 0.38840I$	$-2.72606 + 5.07185I$	$-13.6715 - 6.3313I$
$b = 2.07865 + 0.29445I$		
$u = -0.681829 - 0.299736I$		
$a = 0.743891 + 0.831039I$	$-2.72606 - 5.07185I$	$-13.6715 + 6.3313I$
$b = -0.514590 - 0.182971I$		
$u = -0.681829 - 0.299736I$		
$a = -1.77480 + 0.38840I$	$-2.72606 - 5.07185I$	$-13.6715 + 6.3313I$
$b = 2.07865 - 0.29445I$		
$u = -0.373222 + 0.543854I$		
$a = 0.528563 - 0.787767I$	$-1.59516 - 1.40484I$	$-10.49073 + 0.52948I$
$b = -0.451286 + 0.309528I$		
$u = -0.373222 + 0.543854I$		
$a = 0.79795 + 1.69739I$	$-1.59516 - 1.40484I$	$-10.49073 + 0.52948I$
$b = -0.503932 + 0.498617I$		

Solutions to $I_2^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.373222 - 0.543854I$		
$a = 0.528563 + 0.787767I$	$-1.59516 + 1.40484I$	$-10.49073 - 0.52948I$
$b = -0.451286 - 0.309528I$		
$u = -0.373222 - 0.543854I$		
$a = 0.79795 - 1.69739I$	$-1.59516 + 1.40484I$	$-10.49073 - 0.52948I$
$b = -0.503932 - 0.498617I$		
$u = 0.600586 + 0.155632I$		
$a = -1.18251 + 1.06646I$	$-4.65252 - 0.62859I$	$-18.3165 + 1.4225I$
$b = 0.532477 + 0.072927I$		
$u = 0.600586 + 0.155632I$		
$a = 2.04796 - 0.31700I$	$-4.65252 - 0.62859I$	$-18.3165 + 1.4225I$
$b = -2.31445 + 0.26373I$		
$u = 0.600586 - 0.155632I$		
$a = -1.18251 - 1.06646I$	$-4.65252 + 0.62859I$	$-18.3165 - 1.4225I$
$b = 0.532477 - 0.072927I$		
$u = 0.600586 - 0.155632I$		
$a = 2.04796 + 0.31700I$	$-4.65252 + 0.62859I$	$-18.3165 - 1.4225I$
$b = -2.31445 - 0.26373I$		
$u = 0.228017 + 1.369790I$		
$a = -0.332944 + 0.904226I$	$0.22261 - 3.62879I$	$-12.33383 + 2.63226I$
$b = 2.89859 + 1.41256I$		
$u = 0.228017 + 1.369790I$		
$a = -0.237127 - 0.803442I$	$0.22261 - 3.62879I$	$-12.33383 + 2.63226I$
$b = 0.288686 + 0.146900I$		
$u = 0.228017 - 1.369790I$		
$a = -0.332944 - 0.904226I$	$0.22261 + 3.62879I$	$-12.33383 - 2.63226I$
$b = 2.89859 - 1.41256I$		
$u = 0.228017 - 1.369790I$		
$a = -0.237127 + 0.803442I$	$0.22261 + 3.62879I$	$-12.33383 - 2.63226I$
$b = 0.288686 - 0.146900I$		

Solutions to $I_2^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.14277 + 1.43183I$		
$a = 0.150261 - 0.788188I$	$4.53640 + 0.47055I$	$-6.67171 + 0.18349I$
$b = -0.187283 + 0.114420I$		
$u = -0.14277 + 1.43183I$		
$a = -0.428432 + 0.007713I$	$4.53640 + 0.47055I$	$-6.67171 + 0.18349I$
$b = 1.12407 - 0.96410I$		
$u = -0.14277 - 1.43183I$		
$a = 0.150261 + 0.788188I$	$4.53640 - 0.47055I$	$-6.67171 - 0.18349I$
$b = -0.187283 - 0.114420I$		
$u = -0.14277 - 1.43183I$		
$a = -0.428432 - 0.007713I$	$4.53640 - 0.47055I$	$-6.67171 - 0.18349I$
$b = 1.12407 + 0.96410I$		
$u = -0.26614 + 1.42034I$		
$a = 0.395255 + 0.876622I$	$2.77434 + 8.53123I$	$-9.27652 - 6.18031I$
$b = -2.82299 + 0.90423I$		
$u = -0.26614 + 1.42034I$		
$a = -0.621525 - 0.029773I$	$2.77434 + 8.53123I$	$-9.27652 - 6.18031I$
$b = 1.32479 - 0.63685I$		
$u = -0.26614 - 1.42034I$		
$a = 0.395255 - 0.876622I$	$2.77434 - 8.53123I$	$-9.27652 + 6.18031I$
$b = -2.82299 - 0.90423I$		
$u = -0.26614 - 1.42034I$		
$a = -0.621525 + 0.029773I$	$2.77434 - 8.53123I$	$-9.27652 + 6.18031I$
$b = 1.32479 + 0.63685I$		

$$\text{III. } I_3^u = \langle b - 1, 2a + u, u^2 + 2 \rangle$$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1 \\ 2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ -u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ -u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_6 = \begin{pmatrix} -\frac{1}{2}u \\ u+1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -\frac{1}{2}u \\ 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -\frac{1}{2}u - 1 \\ 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -\frac{1}{2}u - 1 \\ 1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = -12

**(iv) u-Polynomials at the component**

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

**(v) Riley Polynomials at the component**

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

**(vi) Complex Volumes and Cusp Shapes**

Solutions to $I_3^u$		$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u =$	$1.414210I$		
$a =$	$-0.707107I$	1.64493	-12.0000
$b =$	1.00000		
$u =$	$-1.414210I$		
$a =$	$0.707107I$	1.64493	-12.0000
$b =$	1.00000		

$$\text{IV. } I_1^v = \langle a, b+1, v+1 \rangle$$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$

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

$$a_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = -12

**(iv) u-Polynomials at the component**

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

**(v) Riley Polynomials at the component**

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_3$ $c_7, c_8$	$y$
$c_4, c_5, c_6$ $c_9, c_{10}, c_{11}$	$y - 1$

**(vi) Complex Volumes and Cusp Shapes**

Solutions to $I_1^v$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$v = -1.00000$		
$a = 0$	-3.28987	-12.0000
$b = -1.00000$		

## V. u-Polynomials

Crossings	u-Polynomials at each crossing
$c_1, c_2, c_7$	$u(u^2 + 2)(u^{14} + u^{13} + \dots + u + 1)^2(u^{18} - 3u^{17} + \dots - 4u + 2)$
$c_3$	$u^3(u^{14} - 3u^{13} + \dots - 7u + 3)^2(u^{18} - 3u^{17} + \dots - 144u^2 + 16)$
$c_4, c_9$	$((u - 1)^2)(u + 1)(u^{18} + u^{17} + \dots - u - 1)(u^{28} + u^{27} + \dots - 4u + 3)$
$c_5, c_6, c_{10}$ $c_{11}$	$(u - 1)(u + 1)^2(u^{18} + u^{17} + \dots - u - 1)(u^{28} + u^{27} + \dots - 4u + 3)$
$c_8$	$u(u^2 + 2)(u^{14} - u^{13} + \dots + 3u + 1)^2(u^{18} + 3u^{17} + \dots + 24u + 34)$

## VI. Riley Polynomials

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_7$	$y(y+2)^2(y^{14} + 13y^{13} + \dots - y + 1)^2(y^{18} + 17y^{17} + \dots - 32y + 4)$
$c_3$	$y^3(y^{14} + 5y^{13} + \dots + 23y + 9)^2(y^{18} + 5y^{17} + \dots - 4608y + 256)$
$c_4, c_5, c_6$ $c_9, c_{10}, c_{11}$	$((y-1)^3)(y^{18} - 19y^{17} + \dots - 13y + 1)(y^{28} - 21y^{27} + \dots + 32y + 9)$
$c_8$	$y(y+2)^2(y^{14} + y^{13} + \dots - y + 1)^2$ $\cdot (y^{18} + 5y^{17} + \dots - 4384y + 1156)$