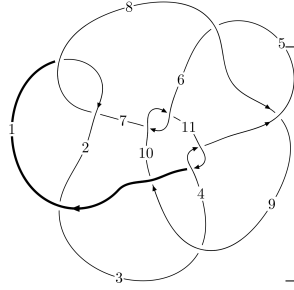
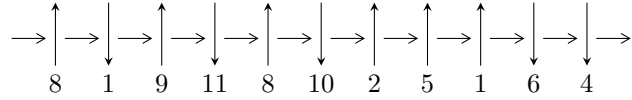


11n₁₄₂ (K11n₁₄₂)



A knot diagram¹

Linearized knot diagram



Solving Sequence

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

Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -u^{13} + 6u^{12} + \dots + b + 3, \\ u^{13} - u^{12} + 15u^{10} - 48u^9 + 106u^8 - 178u^7 + 222u^6 - 230u^5 + 175u^4 - 107u^3 + 57u^2 + 2a - 19u + 10, \\ u^{14} - 5u^{13} + \dots - 6u + 2 \rangle$$

$$I_2^u = \langle u^6 + u^5 + 4u^4 + 3u^3 + 4u^2 + b + 2u + 1, -u^7 - 2u^5 + 2u^4 + 3u^3 + 4u^2 + 2a + 4u + 1, \\ u^8 + 2u^7 + 6u^6 + 8u^5 + 11u^4 + 10u^3 + 8u^2 + 5u + 2 \rangle$$

$$I_3^u = \langle u^4a + 2u^2a - u^3 - au + b + a - u + 1, u^3a + 2u^4 + 2u^2a + 3u^3 + a^2 + 2au + 5u^2 + 2a + u - 1, \\ u^5 + u^4 + 2u^3 + u^2 + u + 1 \rangle$$

* 3 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 32 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>).

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

$$I_1^u = \langle -u^{13} + 6u^{12} + \dots + b + 3, u^{13} - u^{12} + \dots + 2a + 10, u^{14} - 5u^{13} + \dots - 6u + 2 \rangle \quad \text{I.}$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -\frac{1}{2}u^{13} + \frac{1}{2}u^{12} + \dots + \frac{19}{2}u - 5 \\ u^{13} - 6u^{12} + \dots + 11u - 3 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} \frac{1}{2}u^{13} - \frac{5}{2}u^{12} + \dots - \frac{11}{2}u^2 + \frac{3}{2}u \\ u^{13} - 4u^{12} + \dots + 3u - 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} \frac{1}{2}u^{13} - \frac{3}{2}u^{12} + \dots - \frac{7}{2}u^2 + \frac{1}{2}u \\ -u^{13} + 4u^{12} + \dots - 2u + 1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -\frac{3}{2}u^{13} + \frac{13}{2}u^{12} + \dots - \frac{3}{2}u - 2 \\ u^{13} - 6u^{12} + \dots + 11u - 3 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} \frac{3}{2}u^{13} - \frac{13}{2}u^{12} + \dots - \frac{31}{2}u^2 + \frac{13}{2}u \\ -u^{13} + 5u^{12} + \dots - 8u + 3 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -2u^{13} + 9u^{12} + \dots + 19u^2 - 6u \\ u^{13} - 4u^{12} + \dots + 11u - 4 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -\frac{3}{2}u^{13} + \frac{13}{2}u^{12} + \dots - \frac{3}{2}u - 1 \\ u^{13} - 5u^{12} + \dots + 14u - 5 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -\frac{3}{2}u^{13} + \frac{13}{2}u^{12} + \dots - \frac{3}{2}u - 1 \\ u^{13} - 5u^{12} + \dots + 14u - 5 \end{pmatrix}$$

(ii) Obstruction class = -1

$$\text{(iii) Cusp Shapes} = -2u^{13} + 11u^{12} - 40u^{11} + 102u^{10} - 203u^9 + 326u^8 - 425u^7 + 456u^6 - 399u^5 + 283u^4 - 172u^3 + 85u^2 - 36u + 14$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_7	$u^{14} + 11u^{12} + \dots - u + 1$
c_2	$u^{14} + 22u^{13} + \dots + u + 1$
c_4, c_{11}	$u^{14} - 5u^{13} + \dots - 6u + 2$
c_5, c_8	$u^{14} + 8u^{12} + \dots - 4u + 1$
c_6, c_{10}	$u^{14} + 11u^{13} + \dots + 208u + 32$
c_9	$u^{14} + u^{13} + \dots - 42u + 43$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_7	$y^{14} + 22y^{13} + \dots + y + 1$
c_2	$y^{14} - 66y^{13} + \dots + 57y + 1$
c_4, c_{11}	$y^{14} + 11y^{13} + \dots + 48y + 4$
c_5, c_8	$y^{14} + 16y^{13} + \dots + 6y + 1$
c_6, c_{10}	$y^{14} + 5y^{13} + \dots + 4352y + 1024$
c_9	$y^{14} + 29y^{13} + \dots - 6924y + 1849$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.287050 + 0.917286I$		
$a = 1.72431 - 0.08692I$	$0.82198 - 3.62125I$	$2.13881 + 1.61924I$
$b = 0.75441 - 1.21287I$		
$u = 0.287050 - 0.917286I$		
$a = 1.72431 + 0.08692I$	$0.82198 + 3.62125I$	$2.13881 - 1.61924I$
$b = 0.75441 + 1.21287I$		
$u = 1.148320 + 0.063656I$		
$a = 0.028321 - 0.233596I$	$-14.6114 + 5.0048I$	$-3.11103 - 2.22395I$
$b = -0.38125 - 1.63279I$		
$u = 1.148320 - 0.063656I$		
$a = 0.028321 + 0.233596I$	$-14.6114 - 5.0048I$	$-3.11103 + 2.22395I$
$b = -0.38125 + 1.63279I$		
$u = 0.151463 + 0.669236I$		
$a = -1.172520 + 0.541864I$	$0.100921 + 1.074380I$	$3.38569 - 3.60575I$
$b = -0.010117 + 0.820058I$		
$u = 0.151463 - 0.669236I$		
$a = -1.172520 - 0.541864I$	$0.100921 - 1.074380I$	$3.38569 + 3.60575I$
$b = -0.010117 - 0.820058I$		
$u = -0.137919 + 0.533558I$		
$a = -0.824651 + 0.595460I$	$0.158278 + 1.072210I$	$2.34747 - 5.95960I$
$b = -0.029422 + 0.445046I$		
$u = -0.137919 - 0.533558I$		
$a = -0.824651 - 0.595460I$	$0.158278 - 1.072210I$	$2.34747 + 5.95960I$
$b = -0.029422 - 0.445046I$		
$u = -0.12127 + 1.46215I$		
$a = 0.495610 + 0.295894I$	$6.08599 + 2.02171I$	$9.26276 - 3.22644I$
$b = 0.459360 - 0.015268I$		
$u = -0.12127 - 1.46215I$		
$a = 0.495610 - 0.295894I$	$6.08599 - 2.02171I$	$9.26276 + 3.22644I$
$b = 0.459360 + 0.015268I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.60561 + 1.35177I$ $a = -1.56827 + 0.69249I$ $b = -0.78424 + 1.62391I$	$-10.6271 - 11.1808I$	$-0.33111 + 5.29605I$
$u = 0.60561 - 1.35177I$ $a = -1.56827 - 0.69249I$ $b = -0.78424 - 1.62391I$	$-10.6271 + 11.1808I$	$-0.33111 - 5.29605I$
$u = 0.56676 + 1.45000I$ $a = 0.817208 - 1.060380I$ $b = -0.008750 - 1.377190I$	$-9.89254 - 1.11324I$	$-1.192579 + 0.716159I$
$u = 0.56676 - 1.45000I$ $a = 0.817208 + 1.060380I$ $b = -0.008750 + 1.377190I$	$-9.89254 + 1.11324I$	$-1.192579 - 0.716159I$

$$\text{II. } I_2^u = \langle u^6 + u^5 + 4u^4 + 3u^3 + 4u^2 + b + 2u + 1, -u^7 - 2u^5 + 2u^4 + 3u^3 + 4u^2 + 2a + 4u + 1, u^8 + 2u^7 + \cdots + 5u + 2 \rangle$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} \frac{1}{2}u^7 + u^5 - u^4 - \frac{3}{2}u^3 - 2u^2 - 2u - \frac{1}{2} \\ -u^6 - u^5 - 4u^4 - 3u^3 - 4u^2 - 2u - 1 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -\frac{1}{2}u^7 - 2u^6 + \cdots - 2u + \frac{1}{2} \\ -u^7 - 2u^6 - 5u^5 - 6u^4 - 6u^3 - 5u^2 - 2u - 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} \frac{1}{2}u^7 + u^5 - u^4 - \frac{1}{2}u^3 - u^2 - u + \frac{1}{2} \\ -u^7 - 2u^6 - 5u^5 - 6u^4 - 5u^3 - 4u^2 - u - 1 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} \frac{1}{2}u^7 + u^6 + 2u^5 + 3u^4 + \frac{3}{2}u^3 + 2u^2 + \frac{1}{2} \\ -u^6 - u^5 - 4u^4 - 3u^3 - 4u^2 - 2u - 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -\frac{1}{2}u^7 - u^6 + \cdots - 2u - \frac{1}{2} \\ u^5 + u^4 + 3u^3 + 2u^2 + u + 1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u^2 + u + 1 \\ u^6 + 2u^5 + 4u^4 + 5u^3 + 4u^2 + 2u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} \frac{1}{2}u^7 + u^6 + \cdots + 2u + \frac{3}{2} \\ -u^6 - u^5 - 4u^4 - 3u^3 - 4u^2 - u - 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} \frac{1}{2}u^7 + u^6 + \cdots + 2u + \frac{3}{2} \\ -u^6 - u^5 - 4u^4 - 3u^3 - 4u^2 - u - 1 \end{pmatrix}$$

(ii) Obstruction class = 1

$$\text{(iii) Cusp Shapes} = -3u^7 - 6u^6 - 15u^5 - 22u^4 - 22u^3 - 22u^2 - 13u - 6$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^8 + 4u^6 + u^5 + 4u^4 + 3u^3 + 3u^2 + u + 1$
c_2	$u^8 + 8u^7 + 24u^6 + 37u^5 + 36u^4 + 21u^3 + 11u^2 + 5u + 1$
c_3, c_7	$u^8 + 4u^6 - u^5 + 4u^4 - 3u^3 + 3u^2 - u + 1$
c_4	$u^8 + 2u^7 + 6u^6 + 8u^5 + 11u^4 + 10u^3 + 8u^2 + 5u + 2$
c_5	$u^8 + u^6 - 3u^5 + u^4 - 2u^3 + 3u^2 + 1$
c_6	$u^8 + 3u^6 + 2u^5 + u^4 + 3u^3 + u^2 + 1$
c_8	$u^8 + u^6 + 3u^5 + u^4 + 2u^3 + 3u^2 + 1$
c_9	$u^8 + u^7 + 4u^6 + u^4 - 2u^2 + 1$
c_{10}	$u^8 + 3u^6 - 2u^5 + u^4 - 3u^3 + u^2 + 1$
c_{11}	$u^8 - 2u^7 + 6u^6 - 8u^5 + 11u^4 - 10u^3 + 8u^2 - 5u + 2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_7	$y^8 + 8y^7 + 24y^6 + 37y^5 + 36y^4 + 21y^3 + 11y^2 + 5y + 1$
c_2	$y^8 - 16y^7 + 56y^6 + 45y^5 + 192y^4 + 29y^3 - 17y^2 - 3y + 1$
c_4, c_{11}	$y^8 + 8y^7 + 26y^6 + 44y^5 + 41y^4 + 20y^3 + 8y^2 + 7y + 4$
c_5, c_8	$y^8 + 2y^7 + 3y^6 - y^5 - 3y^4 + 4y^3 + 11y^2 + 6y + 1$
c_6, c_{10}	$y^8 + 6y^7 + 11y^6 + 4y^5 - 3y^4 - y^3 + 3y^2 + 2y + 1$
c_9	$y^8 + 7y^7 + 18y^6 + 4y^5 - 13y^4 + 4y^3 + 6y^2 - 4y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.255307 + 0.956150I$		
$a = 1.69644 - 0.66169I$	$-5.22098 - 1.00599I$	$2.77337 + 0.09808I$
$b = 1.095290 + 0.323314I$		
$u = 0.255307 - 0.956150I$		
$a = 1.69644 + 0.66169I$	$-5.22098 + 1.00599I$	$2.77337 - 0.09808I$
$b = 1.095290 - 0.323314I$		
$u = -0.420429 + 1.128350I$		
$a = -1.43682 - 0.24968I$	$1.09366 + 5.02764I$	$3.89133 - 6.50935I$
$b = -0.744211 - 1.167310I$		
$u = -0.420429 - 1.128350I$		
$a = -1.43682 + 0.24968I$	$1.09366 - 5.02764I$	$3.89133 + 6.50935I$
$b = -0.744211 + 1.167310I$		
$u = -0.669415 + 0.364330I$		
$a = 0.671643 + 0.022513I$	$-1.22874 - 0.94773I$	$-2.78542 + 1.04891I$
$b = -0.279662 + 1.002820I$		
$u = -0.669415 - 0.364330I$		
$a = 0.671643 - 0.022513I$	$-1.22874 + 0.94773I$	$-2.78542 - 1.04891I$
$b = -0.279662 - 1.002820I$		
$u = -0.16546 + 1.54832I$		
$a = 0.318738 + 0.607785I$	$5.35605 + 1.96927I$	$-2.37928 - 1.80892I$
$b = -0.071417 + 0.603353I$		
$u = -0.16546 - 1.54832I$		
$a = 0.318738 - 0.607785I$	$5.35605 - 1.96927I$	$-2.37928 + 1.80892I$
$b = -0.071417 - 0.603353I$		

$$\text{III. } I_3^u = \langle u^4a + 2u^2a - u^3 - au + b + a - u + 1, u^3a + 2u^4 + \dots + 2a - 1, u^5 + u^4 + 2u^3 + u^2 + u + 1 \rangle$$

(i) Arc colorings

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

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} a \\ -u^4a - 2u^2a + u^3 + au - a + u - 1 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 2u^3 + 4u^2 + a + 4u + 4 \\ u^4a + u^2a + u^3 - au + a + u + 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} u^4a + u^4 + 2u^2a + u^3 + 4u^2 + 2a + u + 3 \\ -u^4a - u^3a - u^4 - 2u^2a + 2u^3 - au - a + 3u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} u^4a + 2u^2a - u^3 - au + 2a - u + 1 \\ -u^4a - 2u^2a + u^3 + au - a + u - 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -u^4 - u^3 - 2u^2 - u - 1 \\ -u^4a + u^4 - u^2a + 2u^3 + au + 2u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 2u^4 + 2u^3 + 4u^2 + 2u + 2 \\ 2u^4a - 2u^4 + 2u^2a - 4u^3 - 2au - 4u^2 - u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^4 - u^3 - 2u^2 - u - 1 \\ -u^4a + u^4 - u^2a + 2u^3 + au + 2u^2 + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^4 - u^3 - 2u^2 - u - 1 \\ -u^4a + u^4 - u^2a + 2u^3 + au + 2u^2 + u \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = $4u^3 + 4u^2 + 4u - 2$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_7	$u^{10} - u^9 + \dots - 20u + 23$
c_2	$u^{10} + 15u^9 + \dots + 2268u + 529$
c_4, c_{11}	$(u^5 + u^4 + 2u^3 + u^2 + u + 1)^2$
c_5, c_8	$u^{10} + 5u^9 + \dots + 20u + 7$
c_6, c_{10}	$(u - 1)^{10}$
c_9	$u^{10} + u^9 + 10u^8 - 8u^7 + 42u^6 + 2u^5 + 29u^4 + 43u^3 + 28u^2 - 12u + 67$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_7	$y^{10} + 15y^9 + \dots + 2268y + 529$
c_2	$y^{10} - 33y^9 + \dots - 245284y + 279841$
c_4, c_{11}	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)^2$
c_5, c_8	$y^{10} + 3y^9 + \dots + 468y + 49$
c_6, c_{10}	$(y - 1)^{10}$
c_9	$y^{10} + 19y^9 + \dots + 3608y + 4489$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.339110 + 0.822375I$ $a = 1.56543 - 1.34638I$ $b = -0.144990 + 0.454920I$	$-6.25064 - 1.53058I$	$-5.48489 + 4.43065I$
$u = 0.339110 + 0.822375I$ $a = -2.47201 - 1.14141I$ $b = -2.06136 - 0.79577I$	$-6.25064 - 1.53058I$	$-5.48489 + 4.43065I$
$u = 0.339110 - 0.822375I$ $a = 1.56543 + 1.34638I$ $b = -0.144990 - 0.454920I$	$-6.25064 + 1.53058I$	$-5.48489 - 4.43065I$
$u = 0.339110 - 0.822375I$ $a = -2.47201 + 1.14141I$ $b = -2.06136 + 0.79577I$	$-6.25064 + 1.53058I$	$-5.48489 - 4.43065I$
$u = -0.766826$ $a = -0.595741 + 0.396465I$ $b = -0.258559 - 1.303830I$	-4.17865	-4.51890
$u = -0.766826$ $a = -0.595741 - 0.396465I$ $b = -0.258559 + 1.303830I$	-4.17865	-4.51890
$u = -0.455697 + 1.200150I$ $a = 1.04040 + 1.01526I$ $b = 0.43147 + 1.63522I$	$-0.70717 + 4.40083I$	$-1.25569 - 3.49859I$
$u = -0.455697 + 1.200150I$ $a = -1.53808 - 0.24695I$ $b = -0.466561 - 1.013320I$	$-0.70717 + 4.40083I$	$-1.25569 - 3.49859I$
$u = -0.455697 - 1.200150I$ $a = 1.04040 - 1.01526I$ $b = 0.43147 - 1.63522I$	$-0.70717 - 4.40083I$	$-1.25569 + 3.49859I$
$u = -0.455697 - 1.200150I$ $a = -1.53808 + 0.24695I$ $b = -0.466561 + 1.013320I$	$-0.70717 - 4.40083I$	$-1.25569 + 3.49859I$

IV. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^8 + 4u^6 + \dots + u + 1)(u^{10} - u^9 + \dots - 20u + 23)$ $\cdot (u^{14} + 11u^{12} + \dots - u + 1)$
c_2	$(u^8 + 8u^7 + 24u^6 + 37u^5 + 36u^4 + 21u^3 + 11u^2 + 5u + 1)$ $\cdot (u^{10} + 15u^9 + \dots + 2268u + 529)(u^{14} + 22u^{13} + \dots + u + 1)$
c_3, c_7	$(u^8 + 4u^6 + \dots - u + 1)(u^{10} - u^9 + \dots - 20u + 23)$ $\cdot (u^{14} + 11u^{12} + \dots - u + 1)$
c_4	$(u^5 + u^4 + 2u^3 + u^2 + u + 1)^2$ $\cdot (u^8 + 2u^7 + 6u^6 + 8u^5 + 11u^4 + 10u^3 + 8u^2 + 5u + 2)$ $\cdot (u^{14} - 5u^{13} + \dots - 6u + 2)$
c_5	$(u^8 + u^6 - 3u^5 + u^4 - 2u^3 + 3u^2 + 1)(u^{10} + 5u^9 + \dots + 20u + 7)$ $\cdot (u^{14} + 8u^{12} + \dots - 4u + 1)$
c_6	$(u - 1)^{10}(u^8 + 3u^6 + 2u^5 + u^4 + 3u^3 + u^2 + 1)$ $\cdot (u^{14} + 11u^{13} + \dots + 208u + 32)$
c_8	$(u^8 + u^6 + 3u^5 + u^4 + 2u^3 + 3u^2 + 1)(u^{10} + 5u^9 + \dots + 20u + 7)$ $\cdot (u^{14} + 8u^{12} + \dots - 4u + 1)$
c_9	$(u^8 + u^7 + 4u^6 + u^4 - 2u^2 + 1)$ $\cdot (u^{10} + u^9 + 10u^8 - 8u^7 + 42u^6 + 2u^5 + 29u^4 + 43u^3 + 28u^2 - 12u + 67)$ $\cdot (u^{14} + u^{13} + \dots - 42u + 43)$
c_{10}	$(u - 1)^{10}(u^8 + 3u^6 - 2u^5 + u^4 - 3u^3 + u^2 + 1)$ $\cdot (u^{14} + 11u^{13} + \dots + 208u + 32)$
c_{11}	$(u^5 + u^4 + 2u^3 + u^2 + u + 1)^2$ $\cdot (u^8 - 2u^7 + 6u^6 - 8u^5 + 11u^4 - 10u^3 + 8u^2 - 5u + 2)$ $\cdot (u^{14} - 5u^{13} + \dots - 6u + 2)$

V. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_3, c_7	$(y^8 + 8y^7 + 24y^6 + 37y^5 + 36y^4 + 21y^3 + 11y^2 + 5y + 1)$ $\cdot (y^{10} + 15y^9 + \dots + 2268y + 529)(y^{14} + 22y^{13} + \dots + y + 1)$
c_2	$(y^8 - 16y^7 + 56y^6 + 45y^5 + 192y^4 + 29y^3 - 17y^2 - 3y + 1)$ $\cdot (y^{10} - 33y^9 + \dots - 245284y + 279841)(y^{14} - 66y^{13} + \dots + 57y + 1)$
c_4, c_{11}	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)^2$ $\cdot (y^8 + 8y^7 + 26y^6 + 44y^5 + 41y^4 + 20y^3 + 8y^2 + 7y + 4)$ $\cdot (y^{14} + 11y^{13} + \dots + 48y + 4)$
c_5, c_8	$(y^8 + 2y^7 + 3y^6 - y^5 - 3y^4 + 4y^3 + 11y^2 + 6y + 1)$ $\cdot (y^{10} + 3y^9 + \dots + 468y + 49)(y^{14} + 16y^{13} + \dots + 6y + 1)$
c_6, c_{10}	$(y - 1)^{10}(y^8 + 6y^7 + 11y^6 + 4y^5 - 3y^4 - y^3 + 3y^2 + 2y + 1)$ $\cdot (y^{14} + 5y^{13} + \dots + 4352y + 1024)$
c_9	$(y^8 + 7y^7 + 18y^6 + 4y^5 - 13y^4 + 4y^3 + 6y^2 - 4y + 1)$ $\cdot (y^{10} + 19y^9 + \dots + 3608y + 4489)$ $\cdot (y^{14} + 29y^{13} + \dots - 6924y + 1849)$