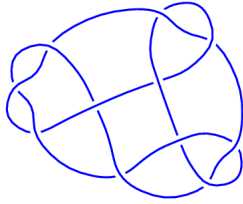
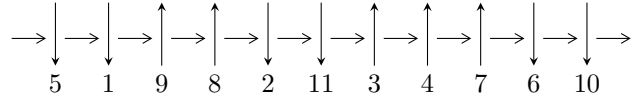


11a₁₀₇ (K11a₁₀₇)

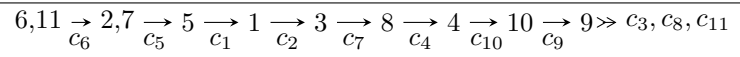


1

Arc Sequences



Solving Sequence



Representation Ideals

$$I = \bigcap_{i=1}^4 I_i^u$$

$$I_1^u = \langle u - 1, a + 1, b + 2 \rangle$$

$$I_2^u = \langle b^2 + 4b + 6, a + 1, u + 1 \rangle$$

$$I_3^u = \langle u^{22} - u^{21} + \dots - u + 1, a - 1, u^{20} - u^{19} + \dots + 2b - 1 \rangle$$

$$I_4^u = \langle u^{36} - u^{35} + \dots + 6u - 3, -153341u^{35} - 762800u^{34} + \dots + 2569487b + 4445678, \\ 387329u^{35} + 1488862u^{34} + \dots + 7708461a + 14884791 \rangle$$

There are 4 irreducible components with 61 representations.

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

$$\mathbf{I. } I_1^u = \langle u - 1, a + 1, b + 2 \rangle$$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

(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
$u = 1.00000$		
$a = -1.00000$	-3.28987	-12.0000
$b = -2.00000$		

$$\text{II. } I_2^u = \langle b^2 + 4b + 6, a + 1, u + 1 \rangle$$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

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

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

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

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

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

$$a_8 = \begin{pmatrix} -b - 1 \\ -2b - 3 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} b + 3 \\ b + 5 \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} -1 \\ b + 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -1 \\ b + 1 \end{pmatrix}$$

(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
$u = -1.00000$ $a = -1.00000$ $b = -2.00000 - 1.41421I$	-8.22467	-12.0000
$u = -1.00000$ $a = -1.00000$ $b = -2.00000 + 1.41421I$	-8.22467	-12.0000

$$\text{III. } I_3^u = \langle u^{22} - u^{21} + \dots - u + 1, a - 1, u^{20} - u^{19} + \dots + 2b - 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_6 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_{11} &= \begin{pmatrix} 1 \\ -\frac{1}{2}u^{20} + \frac{1}{2}u^{19} + \dots - \frac{1}{2}u + \frac{1}{2} \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -u \\ \frac{1}{2}u^{21} - \frac{1}{2}u^{20} + \dots + \frac{1}{2}u^2 + \frac{1}{2}u \end{pmatrix} \\ a_5 &= \begin{pmatrix} u \\ u \end{pmatrix} \\ a_1 &= \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix} \\ a_3 &= \begin{pmatrix} u^4 - u^2 + 1 \\ u^4 \end{pmatrix} \\ a_8 &= \begin{pmatrix} \frac{1}{2}u^{21} - \frac{1}{2}u^{20} + \dots + \frac{1}{2}u^2 - \frac{1}{2}u \\ u^{21} - u^{20} + \dots + u^3 + u^2 \end{pmatrix} \\ a_4 &= \begin{pmatrix} \frac{1}{2}u^{20} - \frac{1}{2}u^{19} + \dots + \frac{1}{2}u + \frac{1}{2} \\ \frac{1}{2}u^{21} - \frac{1}{2}u^{20} + \dots - \frac{3}{2}u + 1 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 1 \\ -\frac{1}{2}u^{20} + \frac{1}{2}u^{19} + \dots - \frac{1}{2}u + \frac{1}{2} \end{pmatrix} \\ a_9 &= \begin{pmatrix} u^4 - u^2 + 1 \\ -\frac{1}{2}u^{20} + \frac{1}{2}u^{19} + \dots - \frac{1}{2}u + \frac{1}{2} \end{pmatrix} \\ a_9 &= \begin{pmatrix} u^4 - u^2 + 1 \\ -\frac{1}{2}u^{20} + \frac{1}{2}u^{19} + \dots - \frac{1}{2}u + \frac{1}{2} \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.187370 - 0.531931I$ $a = 1.00000$ $b = 3.28436 - 0.30427I$	$-4.37280 - 10.68877I$	$-4.26664 + 8.95764I$
$u = -1.187370 + 0.531931I$ $a = 1.00000$ $b = 3.28436 + 0.30427I$	$-4.37280 + 10.68877I$	$-4.26664 - 8.95764I$
$u = -1.176327 - 0.439674I$ $a = 1.00000$ $b = 3.53472 - 0.83570I$	$-11.83206 - 3.58162I$	$-9.60503 + 4.09544I$
$u = -1.176327 + 0.439674I$ $a = 1.00000$ $b = 3.53472 + 0.83570I$	$-11.83206 + 3.58162I$	$-9.60503 - 4.09544I$
$u = -0.852419 - 0.584326I$ $a = 1.00000$ $b = 1.48788 - 0.45770I$	$2.02679 - 4.63959I$	$2.23017 + 7.26462I$
$u = -0.852419 + 0.584326I$ $a = 1.00000$ $b = 1.48788 + 0.45770I$	$2.02679 + 4.63959I$	$2.23017 - 7.26462I$
$u = -0.815720 - 0.225687I$ $a = 1.00000$ $b = -0.09861 - 2.22285I$	$-7.27839 - 1.13244I$	$-4.78640 + 6.09747I$
$u = -0.815720 + 0.225687I$ $a = 1.00000$ $b = -0.09861 + 2.22285I$	$-7.27839 + 1.13244I$	$-4.78640 - 6.09747I$
$u = -0.254045 - 0.648067I$ $a = 1.00000$ $b = 0.251249 - 0.009194I$	$1.11971 + 1.23902I$	$3.65819 - 2.25067I$
$u = -0.254045 + 0.648067I$ $a = 1.00000$ $b = 0.251249 + 0.009194I$	$1.11971 - 1.23902I$	$3.65819 + 2.25067I$

Solution to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.186960 - 0.793799I$	$-4.25973 - 4.25337I$	$-1.79063 + 2.48164I$
$a = 1.00000$		
$b = 0.193004 - 0.071328I$		
$u = 0.186960 + 0.793799I$	$-4.25973 + 4.25337I$	$-1.79063 - 2.48164I$
$a = 1.00000$		
$b = 0.193004 + 0.071328I$		
$u = 0.618630 - 0.421153I$	$-0.56996 + 1.46936I$	$-1.98240 - 4.73317I$
$a = 1.00000$		
$b = 0.445305 + 0.633004I$		
$u = 0.618630 + 0.421153I$	$-0.56996 - 1.46936I$	$-1.98240 + 4.73317I$
$a = 1.00000$		
$b = 0.445305 - 0.633004I$		
$u = 0.646540 - 0.580966I$	$-0.63227 + 1.36325I$	$-0.37432 - 3.42755I$
$a = 1.00000$		
$b = 0.776087 + 0.314460I$		
$u = 0.646540 + 0.580966I$	$-0.63227 - 1.36325I$	$-0.37432 + 3.42755I$
$a = 1.00000$		
$b = 0.776087 - 0.314460I$		
$u = 0.956567 - 0.599153I$	$-2.37652 + 8.11206I$	$-3.44648 - 8.70000I$
$a = 1.00000$		
$b = 1.96840 + 0.37094I$		
$u = 0.956567 + 0.599153I$	$-2.37652 - 8.11206I$	$-3.44648 + 8.70000I$
$a = 1.00000$		
$b = 1.96840 - 0.37094I$		
$u = 1.157188 - 0.495040I$	$-5.03371 + 6.28370I$	$-5.65704 - 3.70414I$
$a = 1.00000$		
$b = 3.23631 + 0.58826I$		
$u = 1.157188 + 0.495040I$	$-5.03371 - 6.28370I$	$-5.65704 + 3.70414I$
$a = 1.00000$		
$b = 3.23631 - 0.58826I$		
Solution to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.219997 - 0.539102I$	$-10.3818 + 14.3064I$	$-7.97941 - 8.76372I$
$a = 1.00000$		
$b = 3.42130 + 0.17143I$		
$u = 1.219997 + 0.539102I$	$-10.3818 - 14.3064I$	$-7.97941 + 8.76372I$
$a = 1.00000$		
$b = 3.42130 - 0.17143I$		

IV.

$$I_4^u = \langle u^{36} - u^{35} + \dots + 6u - 3, -1.53 \times 10^5 u^{35} - 7.63 \times 10^5 u^{34} + \dots + 2.57 \times 10^6 b + 4.45 \times 10^6, 3.87 \times 10^5 u^{35} + 1.49 \times 10^6 u^{34} + \dots + 7.71 \times 10^6 a + 1.49 \times 10^7 \rangle$$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.0502473u^{35} - 0.193146u^{34} + \dots - 0.803997u - 1.93097 \\ 0.0596777u^{35} + 0.296869u^{34} + \dots + 1.30962u - 1.73018 \end{pmatrix}$$

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

$$a_7 = \begin{pmatrix} -0.576727u^{35} + 0.636405u^{34} + \dots + 0.703849u - 2.15074 \\ 0.113153u^{35} + 0.873411u^{34} + \dots - 2.71773u + 0.0282913 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix}$$

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

$$a_8 = \begin{pmatrix} -1.00672u^{35} + 0.176203u^{34} + \dots - 0.172694u - 1.77449 \\ -0.0760580u^{35} + 0.243112u^{34} + \dots - 2.21537u - 0.457299 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -1.18016u^{35} + 0.0609089u^{34} + \dots + 6.31119u - 1.37171 \\ -0.929539u^{35} + 0.131653u^{34} + \dots + 6.70910u - 4.14652 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0502473u^{35} - 0.193146u^{34} + \dots - 0.803997u - 1.93097 \\ -1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.917456u^{35} + 0.312533u^{34} + \dots + 2.46587u - 4.73079 \\ -0.972189u^{35} + 0.764322u^{34} + \dots + 2.83742u - 3.88441 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.917456u^{35} + 0.312533u^{34} + \dots + 2.46587u - 4.73079 \\ -0.972189u^{35} + 0.764322u^{34} + \dots + 2.83742u - 3.88441 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.275537 - 0.361311I$ $a = -0.758744 + 0.576625I$ $b = -2.66691 + 0.16353I$	$-11.67716 + 4.87394I$	$-9.52680 - 3.60136I$
$u = -1.275537 + 0.361311I$ $a = -0.758744 - 0.576625I$ $b = -2.66691 - 0.16353I$	$-11.67716 - 4.87394I$	$-9.52680 + 3.60136I$
$u = -1.220413 - 0.077721I$ $a = -0.631517 + 0.322495I$ $b = -1.99795 + 0.35858I$	$-6.64349 + 1.57187I$	$-6.19122 - 4.22070I$
$u = -1.220413 + 0.077721I$ $a = -0.631517 - 0.322495I$ $b = -1.99795 - 0.35858I$	$-6.64349 - 1.57187I$	$-6.19122 + 4.22070I$
$u = -1.191160 - 0.342913I$ $a = -0.183529 - 0.546742I$ $b = -0.792173 - 0.861391I$	$-8.43501 + 0.55896I$	$-6.48886 + 0.25710I$
$u = -1.191160 + 0.342913I$ $a = -0.183529 + 0.546742I$ $b = -0.792173 + 0.861391I$	$-8.43501 - 0.55896I$	$-6.48886 - 0.25710I$
$u = -1.154056 - 0.399864I$ $a = -0.851935 + 0.589239I$ $b = -2.54226 - 0.09572I$	$-5.71606 - 1.88569I$	$-6.31669 + 3.99357I$
$u = -1.154056 + 0.399864I$ $a = -0.851935 - 0.589239I$ $b = -2.54226 + 0.09572I$	$-5.71606 + 1.88569I$	$-6.31669 - 3.99357I$
$u = -1.127623 - 0.502760I$ $a = -0.134336 - 0.667269I$ $b = -0.380276 - 0.832106I$	$-1.40107 - 5.71427I$	$-0.93404 + 6.05983I$
$u = -1.127623 + 0.502760I$ $a = -0.134336 + 0.667269I$ $b = -0.380276 + 0.832106I$	$-1.40107 + 5.71427I$	$-0.93404 - 6.05983I$

Solution to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.768687$ $a = -1.47077$ $b = -1.86905$	-2.66795	3.97996
$u = -0.670733 - 0.591312I$ $a = 0.125365 - 0.992111I$ $b = -0.200467$	2.54269	4.37196
$u = -0.670733 + 0.591312I$ $a = 0.125365 + 0.992111I$ $b = -0.200467$	2.54269	4.37196
$u = -0.183996 - 0.819966I$ $a = -0.28996 - 1.44027I$ $b = -0.380276 + 0.832106I$	$-1.40107 + 5.71427I$	$-0.93404 - 6.05983I$
$u = -0.183996 + 0.819966I$ $a = -0.28996 + 1.44027I$ $b = -0.380276 - 0.832106I$	$-1.40107 - 5.71427I$	$-0.93404 + 6.05983I$
$u = 0.031128 - 0.714192I$ $a = -0.55179 - 1.64379I$ $b = -0.792173 + 0.861391I$	$-8.43501 - 0.55896I$	$-6.48886 - 0.25710I$
$u = 0.031128 + 0.714192I$ $a = -0.55179 + 1.64379I$ $b = -0.792173 - 0.861391I$	$-8.43501 + 0.55896I$	$-6.48886 + 0.25710I$
$u = 0.146584 - 0.689454I$ $a = -0.24858 + 1.62846I$ $b = -0.558026 - 0.688845I$	$-2.16110 - 1.78695I$	$-2.76057 - 0.02251I$
$u = 0.146584 + 0.689454I$ $a = -0.24858 - 1.62846I$ $b = -0.558026 + 0.688845I$	$-2.16110 + 1.78695I$	$-2.76057 + 0.02251I$
$u = 0.155289 - 0.885938I$ $a = -0.34889 + 1.39113I$ $b = -0.351798 - 0.962330I$	$-7.18011 - 9.13509I$	$-5.01305 + 5.86478I$

Solution to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.155289 + 0.885938I$ $a = -0.34889 - 1.39113I$ $b = -0.351798 + 0.962330I$	$-7.18011 + 9.13509I$	$-5.01305 - 5.86478I$
$u = 0.515934 - 0.677592I$ $a = 0.056407 + 1.194295I$ $b = -0.175849 - 0.269870I$	$-1.13659 - 3.22673I$	$-0.94474 + 3.62956I$
$u = 0.515934 + 0.677592I$ $a = 0.056407 - 1.194295I$ $b = -0.175849 + 0.269870I$	$-1.13659 + 3.22673I$	$-0.94474 - 3.62956I$
$u = 0.795776 - 0.344494I$ $a = -1.255959 - 0.641376I$ $b = -1.99795 + 0.35858I$	$-6.64349 + 1.57187I$	$-6.19122 - 4.22070I$
$u = 0.795776 + 0.344494I$ $a = -1.255959 + 0.641376I$ $b = -1.99795 - 0.35858I$	$-6.64349 - 1.57187I$	$-6.19122 + 4.22070I$
$u = 0.838347 - 0.577956I$ $a = 0.039459 + 0.835451I$ $b = -0.175849 + 0.269870I$	$-1.13659 + 3.22673I$	$-0.94474 - 3.62956I$
$u = 0.838347 + 0.577956I$ $a = 0.039459 - 0.835451I$ $b = -0.175849 - 0.269870I$	$-1.13659 - 3.22673I$	$-0.94474 + 3.62956I$
$u = 1.086306 - 0.410092I$ $a = -0.091604 + 0.600096I$ $b = -0.558026 + 0.688845I$	$-2.16110 + 1.78695I$	$-2.76057 + 0.02251I$
$u = 1.086306 + 0.410092I$ $a = -0.091604 - 0.600096I$ $b = -0.558026 - 0.688845I$	$-2.16110 - 1.78695I$	$-2.76057 - 0.02251I$
$u = 1.13056$ $a = -0.679917$ $b = -1.86905$	-2.66795	3.97996

Solution to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.176147 - 0.461363I$ $a = -0.835448 - 0.634917I$ $b = -2.66691 + 0.16353I$	$-11.67716 + 4.87394I$	$-9.52680 - 3.60136I$
$u = 1.176147 + 0.461363I$ $a = -0.835448 + 0.634917I$ $b = -2.66691 - 0.16353I$	$-11.67716 - 4.87394I$	$-9.52680 + 3.60136I$
$u = 1.178273 - 0.525126I$ $a = -0.169616 + 0.676302I$ $b = -0.351798 + 0.962330I$	$-7.18011 + 9.13509I$	$-5.01305 - 5.86478I$
$u = 1.178273 + 0.525126I$ $a = -0.169616 - 0.676302I$ $b = -0.351798 - 0.962330I$	$-7.18011 - 9.13509I$	$-5.01305 + 5.86478I$
$u = 1.218797 - 0.339357I$ $a = -0.793977 - 0.549153I$ $b = -2.54226 - 0.09572I$	$-5.71606 - 1.88569I$	$-6.31669 + 3.99357I$
$u = 1.218797 + 0.339357I$ $a = -0.793977 + 0.549153I$ $b = -2.54226 + 0.09572I$	$-5.71606 + 1.88569I$	$-6.31669 - 3.99357I$

V. u-Polynomials

Crossings	u-Polynomials at each crossings
c_1, c_6	$(u-1)(u+1)^2(u^{22} + u^{21} + \dots + u + 1)(u^{36} + u^{35} + \dots - 6u - 3)$
c_2, c_{11}	$(u+1)^3(u^{22} + 11u^{21} + \dots + 3u + 1)(u^{36} + 21u^{35} + \dots + 12u + 9)$
c_3, c_4, c_8	$u(u^2 + 2)$ $(-1 + 3u - u^2 - 2u^3 + 4u^4 + 2u^5 + 4u^7 + 9u^8 - 19u^9 + 43u^{10} - 36u^{11} + 55u^{12} - 25u^{13} + 32u^{14} - 15u^{15} + 6u^{16} - 2u^{17} + u^{18} - u^{19} + u^{20} - u^{21} + u^{22})$ $(u^{22} + 3u^{21} + \dots + 8u + 2)$
c_5, c_{10}	$(u-1)^2(u+1)(u^{22} + u^{21} + \dots + u + 1)(u^{36} + u^{35} + \dots - 6u - 3)$
c_7	$u(u^2 + 2)$ $(-5 - 13u - 13u^2 - 24u^3 - 16u^4 - 22u^5 - 6u^6 + 2u^7 + 33u^8 + 3u^9 + 43u^{10} + 18u^{11} + 29u^{12} - 15u^{13} + 6u^{14} - 2u^{15} + u^{16} - u^{17} + u^{18} - u^{19} + u^{20} - u^{21} + u^{22})$ $(u^{22} + 3u^{21} + \dots - 16u + 2)$
c_9	u^3 $(3 + 3u - 11u^2 - 44u^3 - 90u^4 - 138u^5 - 144u^6 - 126u^7 - 59u^8 + 5u^9 + 61u^{10} + 86u^{11} + 85u^{12} - 15u^{13} + 6u^{14} - 2u^{15} + u^{16} - u^{17} + u^{18} - u^{19} + u^{20} - u^{21} + u^{22})$ $(u^{22} + 3u^{21} + \dots - 64u^2 + 16)$

VI. Riley Polynomials

Crossings	Riley Polynomials at each crossings
c_1, c_5, c_6 c_{10}	$(y - 1)^3(y^{22} - 11y^{21} + \dots - 3y + 1)(y^{36} - 21y^{35} + \dots - 12y + 9)$
c_2, c_{11}	$(y - 1)^3(y^{22} + 5y^{21} + \dots + 5y + 1)(y^{36} - 13y^{35} + \dots - 1260y + 81)$
c_3, c_4, c_8	$y(y + 2)^2$ $(1 - 7y + 5y^2 - 24y^3 - 18y^4 + 22y^5 + 236y^7 + 683y^8 + 1011y^9 + 1769y^{10} + 3136y^{11} + 3843y^{12} + 3329y^{13} + 192y^{14} + 24y^{15} + 4y^{16} + 1)$ $(y^{22} + 21y^{21} + \dots + 8y + 4)$
c_7	$y(y + 2)^2$ $(25 - 39y - 295y^2 - 672y^3 - 922y^4 - 1406y^5 - 1728y^6 - 1928y^7 - 453y^8 + 1387y^9 + 3329y^{10} + 3329y^{11} + 192y^{12} + 24y^{13} + 4y^{14} + 1)$ $(y^{22} + 9y^{21} + \dots - 24y + 4)$
c_9	y^3 $(9 - 75y - 155y^2 + 8y^3 - 474y^4 - 2578y^5 - 4328y^6 - 2912y^7 + 295y^8 + 1671y^9 + 873y^{10} + 192y^{11} + 24y^{12} + 4y^{13} + 1)$ $(y^{22} + 13y^{21} + \dots - 2048y + 256)$