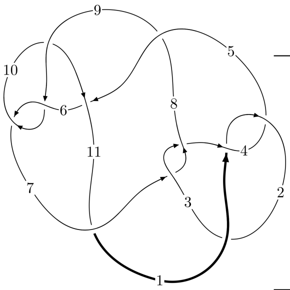
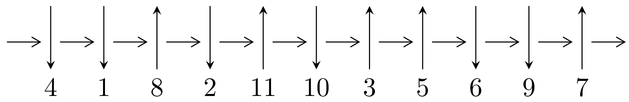
$11a_{35}$ ($K11a_{35}$)



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

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

$$I_1^u = \langle 2u^{65} - u^{64} + \cdots - u^2 + b,\ u^{64} + u^{63} + \cdots + a + 1,\ u^{66} - 2u^{65} + \cdots - u + 1 \rangle$$
$$I_2^u = \langle -u^3 + b + u + 1,\ -u^4 - u^3 + u^2 + a + u,\ u^6 + u^5 - u^4 - 2u^3 + u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 72 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.

$$\boldsymbol{I_1^u = \langle 2u^{65} - u^{64} + \cdots - u^2 + b,\ u^{64} + u^{63} + \cdots + a + 1,\ u^{66} - 2u^{65} + \cdots - u + 1\rangle}$$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} -u^{64} - u^{63} + \cdots - u^2 - 1 \\ -2u^{65} + u^{64} + \cdots - 8u^4 + u^2 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -u^{11} + 2u^9 - 2u^7 + u^3 \\ -u^{11} + 3u^9 - 4u^7 + 3u^5 - u^3 + u \end{pmatrix}$$
$$a_9 = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -u^3 \\ -u^3 + u \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u^5 - 2u^3 + u \\ u^7 - u^5 + u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} -u^{63} + u^{62} + \cdots - u - 1 \\ -u^{65} + u^{64} + \cdots + u^3 + u^2 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} u^6 - u^4 + 1 \\ u^6 - 2u^4 + u^2 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^{64} - u^{63} + \cdots - u^2 - u \\ u^{64} - u^{63} + \cdots + u^2 + u \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^{64} - u^{63} + \cdots - u^2 - u \\ u^{64} - u^{63} + \cdots + u^2 + u \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= 4u^{65} - 6u^{64} + \cdots - 4u - 6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{66} - 7u^{65} + \cdots - 8u + 1$
c_2	$u^{66} + 29u^{65} + \cdots + 8u + 1$
c_3, c_7	$u^{66} + u^{65} + \cdots + 192u + 64$
c_5	$u^{66} + 6u^{65} + \cdots + 5u + 1$
c_6, c_9	$u^{66} + 2u^{65} + \cdots + u + 1$
c_8, c_{11}	$u^{66} - 2u^{65} + \cdots - 49u + 49$
c_{10}	$u^{66} + 30u^{65} + \cdots - u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{66} - 29y^{65} + \cdots - 8y + 1$
c_2	$y^{66} + 23y^{65} + \cdots + 40y + 1$
c_3, c_7	$y^{66} - 39y^{65} + \cdots - 81920y + 4096$
c_5	$y^{66} + 2y^{65} + \cdots + 57y + 1$
c_6, c_9	$y^{66} - 30y^{65} + \cdots + y + 1$
c_8, c_{11}	$y^{66} - 54y^{65} + \cdots + 34349y + 2401$
c_{10}	$y^{66} + 14y^{65} + \cdots - 15y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.838382 + 0.570498I$ $a = -1.59137 + 0.96841I$ $b = -0.89229 + 1.65118I$	$2.86632 + 4.91582I$	$3.89105 - 6.54024I$
$u = -0.838382 - 0.570498I$ $a = -1.59137 - 0.96841I$ $b = -0.89229 - 1.65118I$	$2.86632 - 4.91582I$	$3.89105 + 6.54024I$
$u = 1.033280 + 0.092662I$ $a = 0.186149 - 0.978915I$ $b = 0.1030790 - 0.0082510I$	$-1.69775 + 2.04297I$	$-4.04234 - 3.06094I$
$u = 1.033280 - 0.092662I$ $a = 0.186149 + 0.978915I$ $b = 0.1030790 + 0.0082510I$	$-1.69775 - 2.04297I$	$-4.04234 + 3.06094I$
$u = 0.982840 + 0.372620I$ $a = 0.374917 + 0.408622I$ $b = -0.326106 + 0.086039I$	$-1.69198 - 1.38184I$	0
$u = 0.982840 - 0.372620I$ $a = 0.374917 - 0.408622I$ $b = -0.326106 - 0.086039I$	$-1.69198 + 1.38184I$	0
$u = -0.933351 + 0.146746I$ $a = -1.76404 - 0.58789I$ $b = -2.40628 + 0.14225I$	$-2.87483 + 0.09947I$	$-1.36414 + 2.00887I$
$u = -0.933351 - 0.146746I$ $a = -1.76404 + 0.58789I$ $b = -2.40628 - 0.14225I$	$-2.87483 - 0.09947I$	$-1.36414 - 2.00887I$
$u = -0.742441 + 0.572901I$ $a = 1.41865 - 0.89922I$ $b = 0.73516 - 1.51912I$	$3.13736 - 0.33428I$	$4.85916 - 0.25871I$
$u = -0.742441 - 0.572901I$ $a = 1.41865 + 0.89922I$ $b = 0.73516 + 1.51912I$	$3.13736 + 0.33428I$	$4.85916 + 0.25871I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.548886 + 0.758609I$ $a = 2.42346 + 0.19818I$ $b = 0.51274 + 1.38998I$	$7.33465 - 7.05782I$	$4.34818 + 5.54118I$
$u = 0.548886 - 0.758609I$ $a = 2.42346 - 0.19818I$ $b = 0.51274 - 1.38998I$	$7.33465 + 7.05782I$	$4.34818 - 5.54118I$
$u = 0.521388 + 0.768999I$ $a = -2.49233 - 0.13326I$ $b = -0.48790 - 1.63707I$	$9.01786 - 1.00374I$	$6.50365 + 0.74875I$
$u = 0.521388 - 0.768999I$ $a = -2.49233 + 0.13326I$ $b = -0.48790 + 1.63707I$	$9.01786 + 1.00374I$	$6.50365 - 0.74875I$
$u = 0.449304 + 0.792107I$ $a = -2.35386 + 0.17418I$ $b = -0.48979 - 2.15203I$	$8.61616 + 4.06846I$	$6.02832 - 1.29392I$
$u = 0.449304 - 0.792107I$ $a = -2.35386 - 0.17418I$ $b = -0.48979 + 2.15203I$	$8.61616 - 4.06846I$	$6.02832 + 1.29392I$
$u = 0.426139 + 0.798466I$ $a = 2.20027 - 0.25612I$ $b = 0.48809 + 2.24847I$	$6.65145 + 10.08610I$	$3.42420 - 5.72376I$
$u = 0.426139 - 0.798466I$ $a = 2.20027 + 0.25612I$ $b = 0.48809 - 2.24847I$	$6.65145 - 10.08610I$	$3.42420 + 5.72376I$
$u = -1.101690 + 0.070988I$ $a = 0.241428 + 0.643348I$ $b = 1.68689 + 0.38049I$	$3.30286 - 2.13568I$	0
$u = -1.101690 - 0.070988I$ $a = 0.241428 - 0.643348I$ $b = 1.68689 - 0.38049I$	$3.30286 + 2.13568I$	0

Solutions to I^u_1	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.494791+0.742001I$ $a=\ \ 0.141507-0.914994I$ $b=-0.553428-0.923968I$	$3.55117+1.02644I$	$3.26543-2.61936I$
$u=-0.494791-0.742001I$ $a=\ \ 0.141507+0.914994I$ $b=-0.553428+0.923968I$	$3.55117-1.02644I$	$3.26543+2.61936I$
$u=-0.450858+0.762088I$ $a=\ \ 0.129006+0.877411I$ $b=\ \ 0.821517+0.695767I$	$3.30665-3.77744I$	$2.64079+3.14160I$
$u=-0.450858-0.762088I$ $a=\ \ 0.129006-0.877411I$ $b=\ \ 0.821517-0.695767I$	$3.30665+3.77744I$	$2.64079-3.14160I$
$u=-1.044040+0.415972I$ $a=\ \ 1.15918-2.16322I$ $b=-0.17820-2.43166I$	$-4.43668+2.24930I$	0
$u=-1.044040-0.415972I$ $a=\ \ 1.15918+2.16322I$ $b=-0.17820+2.43166I$	$-4.43668-2.24930I$	0
$u=\ \ 1.089680+0.276870I$ $a=\ \ 0.758755-0.342040I$ $b=\ \ 0.185758+0.260377I$	$-2.52561-2.07395I$	0
$u=\ \ 1.089680-0.276870I$ $a=\ \ 0.758755+0.342040I$ $b=\ \ 0.185758-0.260377I$	$-2.52561+2.07395I$	0
$u=\ \ 0.810413+0.329181I$ $a=\ \ 0.369859+0.669286I$ $b=-0.177061-0.174366I$	$-1.21777-1.53610I$	$-1.19079+4.33474I$
$u=\ \ 0.810413-0.329181I$ $a=\ \ 0.369859-0.669286I$ $b=-0.177061+0.174366I$	$-1.21777+1.53610I$	$-1.19079-4.33474I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.465311 + 0.740633I$ $a = 2.81892 - 0.14269I$ $b = 0.15580 + 2.05972I$	$1.86956 + 1.30967I$	$3.95870 - 0.74968I$
$u = 0.465311 - 0.740633I$ $a = 2.81892 + 0.14269I$ $b = 0.15580 - 2.05972I$	$1.86956 - 1.30967I$	$3.95870 + 0.74968I$
$u = -1.121160 + 0.108789I$ $a = -0.098711 - 1.028630I$ $b = -1.64518 - 0.65204I$	$1.42265 - 7.90790I$	0
$u = -1.121160 - 0.108789I$ $a = -0.098711 + 1.028630I$ $b = -1.64518 + 0.65204I$	$1.42265 + 7.90790I$	0
$u = 1.057400 + 0.449933I$ $a = -0.603625 - 0.892474I$ $b = 0.834057 - 0.646276I$	$-4.18666 - 4.48001I$	0
$u = 1.057400 - 0.449933I$ $a = -0.603625 + 0.892474I$ $b = 0.834057 + 0.646276I$	$-4.18666 + 4.48001I$	0
$u = 1.108820 + 0.356169I$ $a = -1.058710 - 0.172368I$ $b = -0.049081 - 0.608014I$	$-3.31662 + 1.71384I$	0
$u = 1.108820 - 0.356169I$ $a = -1.058710 + 0.172368I$ $b = -0.049081 + 0.608014I$	$-3.31662 - 1.71384I$	0
$u = -1.059680 + 0.504654I$ $a = -0.61218 + 1.30860I$ $b = 0.134064 + 1.396220I$	$-0.63612 + 4.98818I$	0
$u = -1.059680 - 0.504654I$ $a = -0.61218 - 1.30860I$ $b = 0.134064 - 1.396220I$	$-0.63612 - 4.98818I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.032540 + 0.629706I$ $a = -1.02242 - 1.17537I$ $b = -0.51019 - 2.65763I$	$5.89418 + 1.80044I$	0
$u = 1.032540 - 0.629706I$ $a = -1.02242 + 1.17537I$ $b = -0.51019 + 2.65763I$	$5.89418 - 1.80044I$	0
$u = -1.114920 + 0.476437I$ $a = 0.19529 - 1.93571I$ $b = -0.80083 - 1.66249I$	$-2.51518 + 9.28456I$	0
$u = -1.114920 - 0.476437I$ $a = 0.19529 + 1.93571I$ $b = -0.80083 + 1.66249I$	$-2.51518 - 9.28456I$	0
$u = -1.059930 + 0.604349I$ $a = -1.346760 - 0.025560I$ $b = -1.163210 + 0.605646I$	$1.87224 + 4.09931I$	0
$u = -1.059930 - 0.604349I$ $a = -1.346760 + 0.025560I$ $b = -1.163210 - 0.605646I$	$1.87224 - 4.09931I$	0
$u = -1.094230 + 0.542575I$ $a = 0.187399 + 1.008530I$ $b = 0.634544 + 0.749712I$	$-0.78414 + 5.20993I$	0
$u = -1.094230 - 0.542575I$ $a = 0.187399 - 1.008530I$ $b = 0.634544 - 0.749712I$	$-0.78414 - 5.20993I$	0
$u = 1.052280 + 0.627132I$ $a = 1.32954 + 1.37112I$ $b = 0.54238 + 3.01297I$	$7.43584 - 4.27253I$	0
$u = 1.052280 - 0.627132I$ $a = 1.32954 - 1.37112I$ $b = 0.54238 - 3.01297I$	$7.43584 + 4.27253I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.074260 + 0.597515I$ $a = -2.18165 - 1.45852I$ $b = -0.87622 - 3.83823I$	$0.06491 - 6.40733I$	0
$u = 1.074260 - 0.597515I$ $a = -2.18165 + 1.45852I$ $b = -0.87622 + 3.83823I$	$0.06491 + 6.40733I$	0
$u = -1.085410 + 0.603226I$ $a = 1.310790 + 0.412851I$ $b = 1.302250 - 0.252580I$	$1.42413 + 8.94825I$	0
$u = -1.085410 - 0.603226I$ $a = 1.310790 - 0.412851I$ $b = 1.302250 + 0.252580I$	$1.42413 - 8.94825I$	0
$u = 1.094700 + 0.615040I$ $a = 1.87043 + 1.93402I$ $b = 0.29058 + 3.67030I$	$6.69261 - 9.35838I$	0
$u = 1.094700 - 0.615040I$ $a = 1.87043 - 1.93402I$ $b = 0.29058 - 3.67030I$	$6.69261 + 9.35838I$	0
$u = 1.106110 + 0.610118I$ $a = -1.94258 - 2.07623I$ $b = -0.16079 - 3.73355I$	$4.6256 - 15.3717I$	0
$u = 1.106110 - 0.610118I$ $a = -1.94258 + 2.07623I$ $b = -0.16079 + 3.73355I$	$4.6256 + 15.3717I$	0
$u = -0.294679 + 0.644303I$ $a = 0.679463 + 0.410200I$ $b = 0.806022 - 0.412649I$	$1.40693 - 0.59491I$	$4.38934 - 0.28224I$
$u = -0.294679 - 0.644303I$ $a = 0.679463 - 0.410200I$ $b = 0.806022 + 0.412649I$	$1.40693 + 0.59491I$	$4.38934 + 0.28224I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = -0.384847 + 0.590354I$ $a = 0.692961 + 0.117771I$ $b = 0.536027 - 0.459837I$	$1.34836 - 0.65111I$	$6.35993 + 0.81332I$
$u = -0.384847 - 0.590354I$ $a = 0.692961 - 0.117771I$ $b = 0.536027 + 0.459837I$	$1.34836 + 0.65111I$	$6.35993 - 0.81332I$
$u = -0.145120 + 0.656018I$ $a = -0.707893 - 0.533230I$ $b = -0.892706 + 0.792235I$	$0.19546 - 5.03591I$	$0.49496 + 5.85341I$
$u = -0.145120 - 0.656018I$ $a = -0.707893 + 0.533230I$ $b = -0.892706 - 0.792235I$	$0.19546 + 5.03591I$	$0.49496 - 5.85341I$
$u = 0.112160 + 0.424483I$ $a = -0.71183 - 1.25349I$ $b = -0.159712 + 0.755486I$	$-1.87076 + 0.85798I$	$-4.38899 - 0.56558I$
$u = 0.112160 - 0.424483I$ $a = -0.71183 + 1.25349I$ $b = -0.159712 - 0.755486I$	$-1.87076 - 0.85798I$	$-4.38899 + 0.56558I$

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

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_3 = \begin{pmatrix} u^4 + u^3 - u^2 - u \\ u^3 - u - 1 \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} u \\ u \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -u^3 \\ -u^3 + u \end{pmatrix}$$
$$a_1 = \begin{pmatrix} u^5 - 2u^3 + u \\ u^5 + u^4 - 2u^3 - u^2 + u + 1 \end{pmatrix}$$
$$a_2 = \begin{pmatrix} u^5 + u^4 - u^3 - u^2 \\ u^5 + u^4 - u^3 - u^2 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} -u^5 + 2u^3 - u \\ -u^5 - u^4 + 2u^3 + u^2 - u - 1 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^4 + u^3 - u^2 - u \\ u^3 - u - 1 \end{pmatrix}$$
$$a_4 = \begin{pmatrix} u^4 + u^3 - u^2 - u \\ u^3 - u - 1 \end{pmatrix}$$

(ii) Obstruction class $= 1$

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

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$(u-1)^6$
c_2, c_4	$(u+1)^6$
c_3, c_7	u^6
c_5, c_{10}	$u^6+3u^5+5u^4+4u^3+2u^2+u+1$
c_6, c_8, c_{11}	$u^6+u^5-u^4-2u^3+u+1$
c_9	$u^6-u^5-u^4+2u^3-u+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_4	$(y-1)^6$
c_3, c_7	y^6
c_5, c_{10}	$y^6+y^5+5y^4+6y^2+3y+1$
c_6, c_8, c_9 c_{11}	$y^6-3y^5+5y^4-4y^3+2y^2-y+1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.002190 + 0.295542I$ $a = -0.685196 + 1.063260I$ $b = -1.258210 + 0.569162I$	$-3.53554 - 0.92430I$	$-6.79748 + 1.68215I$
$u = 1.002190 - 0.295542I$ $a = -0.685196 - 1.063260I$ $b = -1.258210 - 0.569162I$	$-3.53554 + 0.92430I$	$-6.79748 - 1.68215I$
$u = -0.428243 + 0.664531I$ $a = 0.917982 + 0.270708I$ $b = -0.082955 - 0.592379I$	$0.245672 - 0.924305I$	$-1.96974 + 0.88960I$
$u = -0.428243 - 0.664531I$ $a = 0.917982 - 0.270708I$ $b = -0.082955 + 0.592379I$	$0.245672 + 0.924305I$	$-1.96974 - 0.88960I$
$u = -1.073950 + 0.558752I$ $a = -0.732786 + 0.381252I$ $b = -0.158836 + 1.200140I$	$-1.64493 + 5.69302I$	$-5.23279 - 6.15196I$
$u = -1.073950 - 0.558752I$ $a = -0.732786 - 0.381252I$ $b = -0.158836 - 1.200140I$	$-1.64493 - 5.69302I$	$-5.23279 + 6.15196I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^6)(u^{66} - 7u^{65} + \cdots - 8u + 1)$
c_2	$((u+1)^6)(u^{66} + 29u^{65} + \cdots + 8u + 1)$
c_3, c_7	$u^6(u^{66} + u^{65} + \cdots + 192u + 64)$
c_4	$((u+1)^6)(u^{66} - 7u^{65} + \cdots - 8u + 1)$
c_5	$(u^6 + 3u^5 + 5u^4 + 4u^3 + 2u^2 + u + 1)(u^{66} + 6u^{65} + \cdots + 5u + 1)$
c_6	$(u^6 + u^5 - u^4 - 2u^3 + u + 1)(u^{66} + 2u^{65} + \cdots + u + 1)$
c_8, c_{11}	$(u^6 + u^5 - u^4 - 2u^3 + u + 1)(u^{66} - 2u^{65} + \cdots - 49u + 49)$
c_9	$(u^6 - u^5 - u^4 + 2u^3 - u + 1)(u^{66} + 2u^{65} + \cdots + u + 1)$
c_{10}	$(u^6 + 3u^5 + 5u^4 + 4u^3 + 2u^2 + u + 1)(u^{66} + 30u^{65} + \cdots - u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$((y-1)^6)(y^{66} - 29y^{65} + \cdots - 8y + 1)$
c_2	$((y-1)^6)(y^{66} + 23y^{65} + \cdots + 40y + 1)$
c_3, c_7	$y^6(y^{66} - 39y^{65} + \cdots - 81920y + 4096)$
c_5	$(y^6 + y^5 + 5y^4 + 6y^2 + 3y + 1)(y^{66} + 2y^{65} + \cdots + 57y + 1)$
c_6, c_9	$(y^6 - 3y^5 + 5y^4 - 4y^3 + 2y^2 - y + 1)(y^{66} - 30y^{65} + \cdots + y + 1)$
c_8, c_{11}	$(y^6 - 3y^5 + 5y^4 - 4y^3 + 2y^2 - y + 1)$ $\cdot\,(y^{66} - 54y^{65} + \cdots + 34349y + 2401)$
c_{10}	$(y^6 + y^5 + 5y^4 + 6y^2 + 3y + 1)(y^{66} + 14y^{65} + \cdots - 15y + 1)$