ON GENERIC POLYNOMIALS FOR CYCLIC GROUPS

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ABSTRACT. Starting from a known case of generic polynomials for dihedral groups, we get a family of generic polynomials for cyclic groups of order divisible by four over suitable base fields.

1. INTRODUCTION

If K is a field, and G is a finite group, a generic polynomial is a way giving a "general" description of Galois extensions over K with Galois group G. More precisely:

Definition. A monic separable polynomial $P(\mathbf{t}, X) \in K(\mathbf{t})[X]$, with $\mathbf{t} = (t_1, \ldots, t_n)$ being indeterminates, is *generic* for G over K, if

(a) $\mathrm{Gal}(P(\mathbf{t}, X)/K(\mathbf{t})) \simeq G$; and
(b) for any Galois extension M/L with Galois group G and $L \supseteq K$, M is the splitting field over L of a specialisation $P(a_1, \ldots, a_n, X)$ of $P(\mathbf{t}, X)$, with $a_1, \ldots, a_n \in L$.

Over an infinite field, the existence of a generic polynomial is equivalent to existence of a generic extension in the sense of [Sa], as proved in [Ke2].

We refer to [JL&Y] for further results and references.

In this paper, we show

Theorem. *Let K be an infinite field of characteristic not dividing $2n$, and assume that $\zeta + 1/\zeta \in K$ for a primitive $4n^{\text{th}}$ root of unity, $n \geq 1$. If*

$$q(X) = X^{4n} + \sum_{i=1}^{2n-1} a_i X^{2i} \in \mathbb{Z}[X]$$

is given by

$$q(X + 1/X) = X^{4n} + 1/X^{4n} - 2,$$

then the polynomial

$$P(s, t, X) = X^{4n} + \sum_{i=1}^{2n-1} a_i s^{2n-i} X^{2i} + \frac{4s^{2n}}{t^2 + 1}$$

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Michael Hoelscher

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