

Cyclic Homology of Algebras with One Generator*

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Abstract. We compute the cyclic homology of $A = k[X]/\langle X^n \rangle$ for an arbitrary commutative ring k , and we apply this result to compute the cyclic homology of $k[X]/\langle f \rangle$, when k is a field and f is an arbitrary polynomial.

Key words. Cyclic homology, Hochschild homology.

0. Introduction

The aim of this paper is the computation of the cyclic homology of the algebra $A = k[X]/\langle f \rangle$, where k is a commutative ring with unit and f is a monic polynomial, under suitable hypothesis. In [8], Masuda and Natsume calculate the cyclic homology of this kind of algebra when the characteristic of k is 0. This has also been done by Kassel in [5]. In this work, we generalize these results. The special case $f = X^n - 1$ has been treated in [2] and [3].

We divide the article into three sections. In the first, we build up a simplified resolution using the Taylor series developed in [7] to compute the Hochschild homology of A over k . Both the Hochschild resolution and the simplified resolution are homotopically equivalent, so we compute the maps which give this equivalence. This study was started while one of the authors was at the University of Paris VII working with M. Karoubi [4].

In the second section, we compute the cyclic homology of $A = k[X]/\langle X^n \rangle$ starting with $k = \mathbb{Z}$ and then applying the Künneth formula [1].

We obtain the following results:

$$(a) \quad HC_{2r+1}(A) = \bigoplus_{j=0}^r \left(\left(\bigoplus_{a=1}^{n-1} \frac{k}{(a+jn)k} \right) \oplus \frac{k}{nk} \right) \quad (r \geq 0),$$

$$(b) \quad HC_{2r}(A) = (\text{Ann}(n)^{(r)}) \oplus k^{(n)} \oplus \left(\bigoplus_{j=0}^{r-1} \left(\bigoplus_{a=1}^{n-1} \text{Ann}(a+nj) \right) \right) \quad (r \geq 0),$$

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Cyclic Homology

Michael Seilmaier



Cyclic Homology:

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Cyclic Homology**

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