## CYCLIC CODES VIA IDEMPOTENTS OVER THE RING

$$
\mathbb{Z}_{p^{k}}[x] /\left\langle x^{n}-1\right\rangle
$$

Antônio De Andrade E Silva and João Bosco Batista Lacerda

## Abstract

> A method of calculating idempotent generators for a $\mathbb{Z}_{p^{2}}$-cyclic code from the idempotent generators of $\mathbb{Z}_{p}$-cyclic code is presented.

Keywords and phrases: cyclic code, group algebra, generators and idempotents of $\mathbb{Z}_{p^{2}}$-cyclic codes.
$\square$

Pioneer Journal of Algebra, Number Theory and its Applications

