

M. D. NEUSEL  
Texas Tech University  
Lubbock, United States  
mara.d.neusel@ttu.edu

M. SEZER  
Bilkent University  
Ankara, Turkey  
mufit.sezer@boun.edu.tr

## Invariants of modular indecomposable representations of $Z_{p^2}$

We consider the invariant ring for an indecomposable representation of a cyclic group of order  $p^2$  over a field  $\mathbb{F}$  of characteristic  $p$ . We describe a set of  $\mathbb{F}$ -algebra generators of this ring of invariants, and thus derive an upper bound for the largest degree of an element in a minimal generating set for the ring of invariants. This bound, as a polynomial in  $p$ , is of degree two.