

Year: 2015	Vol.: 86	Fasc.: 3-4
------------	----------	------------

Title: Units in FD_{2p}

Author(s): Kuldeep Kaur and Manju Khan

In this paper, we present the structure of the group of $*$ -unitary units in the group algebra FD_{2p} , where F is a finite field of characteristic $p > 2$, D_{2p} is the dihedral group of order $2p$, and $*$ is the canonical involution of the group algebra FD_{2p} . We also provide the structure of the maximal p -subgroup of the unit group $\mathcal{U}(FD_{2p})$ and compute a basis of its center.

Address:

Kuldeep Kaur
Department of Mathematics
Indian Institute of Technology Ropar
Nangal Road, Rupnagar - 140 001
India

Address:

Manju Khan
Department of Mathematics
Indian Institute of Technology Ropar
Nangal Road, Rupnagar - 140 001
India