

Year: 2015

Vol.: 86

Fasc.: 3-4

Title: Units in FD_{2p}

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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.

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