

Covering Groups of Rank 1 of Elementary Abelian Groups

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ABSTRACT: Covering groups of elementary abelian groups of odd exponent p can be classified according to the rank of their p -th power homomorphisms, which may be regarded as linear transformations of \mathbb{F}_p -vector spaces. This paper contains a description of the isomorphism types and the automorphism groups of those covering groups in which this rank is 1. Analogous considerations of elementary abelian 2-groups and their covering groups are included in the final section.