

On separable abelian p -groups

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Abstract

An S -ring (a Schur ring) is said to be *separable* with respect to a class of groups \mathcal{K} if every algebraic isomorphism from the S -ring in question to an S -ring over a group from \mathcal{K} is induced by a combinatorial isomorphism. A finite group is said to be *separable* with respect to \mathcal{K} if every S -ring over this group is separable with respect to \mathcal{K} . We provide a complete classification of abelian p -groups separable with respect to the class of abelian groups.

Keywords: Isomorphisms, Schur rings, p -groups.

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O separabilnih abelovih p -grupah

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Povzetek

S -kolobar (Schurov kolobar) se imenuje *separabilen* glede na razred grup \mathcal{K} , če je vsak algebraični izomorfizem iz danega S -kolobarja v S -kolobar nad grupo iz razreda \mathcal{K} induciran z nekim kombinatoričnim izomorfizmom. Končna grupa se imenuje *separabilna* glede na \mathcal{K} , če je vsak S -kolobar nad to grupo separabilen glede na \mathcal{K} . Podamo popolno klasifikacijo abelovih p -grup, ki so separabilne glede na razred abelovih grup.

Ključne besede: Izomorfizmi, Schurovi kolobarji, p -grupe.

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