

Ladislav Procházka

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(Preliminary communication)

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NOTE ON QUASI-ISOMORPHISM OF TORSION FREE ABELIAN GROUPS OF

FINITE RANK
(Preliminary communication)
Ladislav PROCHÁZKA, Praha

By a group we understand always an abelian group.

According to [1] two torsion free groups G and H of finite rank are called quasi-isomorphic (such two groups are said in [2] to be almost isomorphic) if there exists a subgroup $G' \leq G$ such that $G' \cong H$ and G' has finite index in G . Using this concept of quasi-isomorphism the following conjecture is formulated in [1] (see [1], p.41): If G is a torsion free group of finite rank r containing a free subgroup F of the same rank r such that for each prime p , the divisible part of the p -primary component of torsion group G/F has rank at least $r-1$, then any group H which is quasi-isomorphic to G is already isomorphic to G .

It can be proved that this hypothesis really holds; the complete proof of corresponding assertion will be presented in Czechoslovak Mathematical Journal. Let us remark only that this proof is based on some results of the paper [3] concerning invariants theory of torsion free groups of finite rank and the author's paper [4].

References

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