

Pavel Příhoda

Bases of minimal elements of some partially ordered free abelian groups

Comment.Math.Univ.Carolinae 44,4 (2003) 623-628.

Abstract: In the present paper, we will show that the set of minimal elements of a full affine semigroup $A \hookrightarrow \mathbb{N}_0^k$ contains a free basis of the group generated by A in \mathbb{Z}^k . This will be applied to the study of the group $K_0(R)$ for a semilocal ring R .

Keywords: full affine semigroups, partially ordered abelian groups, semilocal rings, direct sum decompositions

AMS Subject Classification: 16D70, 20M14