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Bases of minimal elements of some partially ordered free abelian groups

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 $\mathrm{K}_0(R)$ for a semilocal ring R.