ON THE SECOND SPECTRUM OF LATTICE MODULES

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Abstract

The second spectrum $\text{Spec}^s(M)$ is the collection of all second elements of M . In this paper, we study the topology on $\text{Spec}^s(M)$, which is a generalization of the Zariski topology on the prime spectrum of lattice modules. Besides some properties, $\text{Spec}^s(M)$ is characterized and the interrelations between the topological properties of $\text{Spec}^s(M)$ and the algebraic properties of M , are studied.

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