

A NOTE ON LATTICE MODULE

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Abstract

Let L be a multiplicative lattice and M be a lattice L -module. In this presentation, we acquaint a topology said to be the Zariski topology over $\sigma(M)$, the collection of all prime elements of an L -module M . We investigate some results on the Zariski topology over $\sigma(M)$. Our aim is to characterize the lattice modules whose prime spectrum satisfy some of the separation axioms between T_0 and T_1 which are $T(\beta)$, $T(\beta')$, $T(\varepsilon)$, T_{ES} , T_D , T_{DD} , T_Y and T_{YS} .

Keywords: Prime spectrum of lattice module, prime element, separation axiom

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