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On the Zero-Divisor Graphs of Multiplication Modules

Content :

Let R be a commutative ring with identity and M be a multiplication R -module. For elements x and y of M , we recall that the product of Rx and Ry is denoted by xy and is defined by $(IJ)M$ where I and J are presentation ideals of Rx and Ry , respectively. An element x in a multiplication module M is called a zero divisor if $xy=0$ for some non-zero element y of M . A zero-divisor graph of a multiplication module M is defined as the graph X_M that its vertices are $X_M^* = X_M \setminus \{0\}$ in which for every distinct vertices x and y , $x-y$ is an edge if and only if $xy=0$. In this paper we give some results of the concept of zero-divisor graphs for multiplication modules.

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