

ON L-IDEAL-BASED L-ZERO-DIVISOR GRAPHS

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Abstract

In a manner analogous to a commutative ring, the L-ideal-based L-zero-divisor graph of a commutative ring R can be defined as the undirected graph $\Gamma(\mu)$ for some L-ideal μ of R . The basic properties and possible structures of the graph $\Gamma(\mu)$ are studied.

Keywords: μ -Zero-divisor, L-zero-divisor graph, μ -diameter, μ -girth, μ -nilradical ideal, μ -domainlike ring.

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