

The Generalized total graph of a commutative ring

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Let R be a commutative ring with nonzero identity and H be a nonempty proper multiplicative-prime subset of R . The generalized total graph of R is the (simple) graph $GT_H(R)$ with all elements of R as the vertices, and two distinct vertices x and y are adjacent if and only if $x + y \in H$. In this talk, we investigate the structure of $GT_H(R)$.

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