

## Zero Divisor Graph of a Poset with Respect to Primal Ideals

**Authors :** Hossein Pourali

**Abstract :** In this paper, we extend the concepts of primal and weakly primal ideals for posets. Further, the diameter of the zero divisor graph of a poset with respect to a non-primal ideal is determined. The relation between primary and primal ideals in posets is also studied.

**Keywords :** associated prime ideal, ideal, primary ideal, primal ideal, prime ideal, semiprime ideal, weakly primal ideal, zero divisors graph

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