

AN IDEAL-BASED ZERO-DIVISOR GRAPH OF DIRECT PRODUCTS OF COMMUTATIVE RINGS

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Abstract

In this paper, specifically, we look at the preservation of the diameter and girth of the zero-divisor graph with respect to an ideal of a commutative ring when extending to a finite direct product of commutative rings.

Keywords: zero-divisor graph, ideal-based, diameter, girth, finite direct product.

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