

## L-ZERO-DIVISOR GRAPHS OF DIRECT PRODUCTS OF L-COMMUTATIVE RINGS

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### Abstract

L-zero-divisor graphs of L-commutative rings have been introduced and studied in [5]. Here we consider L-zero-divisor graphs of a finite direct product of L-commutative rings. Specifically, we look at the preservation, or lack thereof, of the diameter and girth of the L-zero-divisor graph of a L-ring when extending to a finite direct product of L-commutative rings.

**Keywords:**  $\mu$ -zero-divisor, L-zero-divisor graph,  $\mu$ -diameter,  $\mu$ -girth, finite direct products.

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