

# Review of: "Zero-Divisor Graphs of $\mathbb{Z}_n$ , their products and $D_n$ "

Madhumitha S<sup>1</sup>

<sup>1</sup> Christ University

**Potential competing interests:** No potential competing interests to declare.

The article studies the zero-divisor graphs of the ring  $\mathbb{Z}_n$  and their finite-direct products along with a study on the zero-divisor graphs of the poset of the set of all divisors of an integer. The authors characterise the rings (direct product of  $\mathbb{Z}_n$ ) for which their zero-divisor graphs are perfect, by constructing a new graph called the type graph for the corresponding ring, which is analogous to the results established for the ring  $\mathbb{Z}_n$  earlier studies. Also, the study on the zero-divisor graph of posets needs more clarity. The mathematical rigour in the arguments of the proofs does not meet the requirement for a good mathematics research article. The corresponding ring-theoretic, algebraic and number theoretic preliminaries or certain reference literature, if provided in the paper, could have given a better understanding of the study.