

Osba, Emad Abu; Al-Addasi, Salah; Al-Khamaiseh, Basem

Some properties of the zero-divisor graph for the ring of Gaussian integers modulo n .
(English) [Zbl 1213.13019](#)

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Summary: This paper is a continuation for the study of the zero-divisor graph for the ring of Gaussian integers modulo n , $\Gamma(\mathbb{Z}_n[i])$ in [*E. A. Osba, S. Al-Addasi and N. A. Jaradeh, Commun. Algebra 36, No. 10, 3865–3877 (2008; Zbl 1151.05042)*]. It is investigated, when is $\Gamma(\mathbb{Z}_n[i])$ locally H , Hamiltonian or bipartite graph? A full characterisation for the chromatic number and the radius is also given.

MSC:

[13A99](#) General commutative ring theory
[05C15](#) Coloring of graphs and hypergraphs

Cited in 4 Documents

Full Text: [DOI](#)

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