

ON THE INTERSECTION GRAPHS OF IDEALS OF DIRECT PRODUCT OF RINGS

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Abstract

In this paper we first calculate the number of vertices and edges of the intersection graph of ideals of direct product of rings and fields. Then we study Eulerianity and Hamiltonicity in the intersection graph of ideals of direct product of commutative rings.

Keywords: ideal, direct sum, intersection graph, Eulerian, Hamiltonian.

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