

# On the Graph of Divisibility of an Integral Domain

Jason Greene Boynton and Jim Coykendall

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*Abstract.* It is well known that the factorization properties of a domain are reflected in the structure of its group of divisibility. The main theme of this paper is to introduce a topological/graph-theoretic point of view to the current understanding of factorization in integral domains. We also show that connectedness properties in the graph and topological space give rise to a generalization of atomicity.