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Shane P Redmond* (shane.redmond@eku.edu), Richmond, KY 40475, and **S Pirzada** and **Rameez Raja**. *Finding locating sets and locating numbers of zero-divisor graphs of commutative rings*. Preliminary report.

For an ordered set $W = \{w_1, w_2, \dots, w_k\}$ of vertices of G and a vertex v of G , the locating code of v with respect to W is the k -vector $c_W(v) = (d(v, w_1), d(v, w_2), \dots, d(v, w_k))$. The set W is a locating set for G if distinct vertices have distinct codes. A locating set containing a minimum number of vertices is a minimum locating set for G . The locating number, denoted by $loc(G)$, is the number of vertices in the minimum locating set for G . This talk explores the role locating sets play in zero-divisor graphs of commutative rings. Specifically, equivalence relations among the vertices of the zero-divisor graph, cut vertices and locating sets, and locating numbers of products of rings will be discussed. (Received July 22, 2014)