Michael Axtell (axtellm@wabash.edu), Dept. of Mathematics and Comp. Sci., P.O. Box 352, Crawfordsville, IN 47933, and Joe Stickles* (js298@evansville.edu), Department of Mathematics, 1800 Lincoln Avenue, Evansville, IN 47722. Zero-Divisor Graphs of Idealizations.

We consider zero-divisor graphs of idealizations of commutative rings. Specifically, we look at the preservation, or lack thereof, of the diameter and girth of the zero-divisor graph of a ring when extending to idealizations of the ring. (Received March 09, 2005)