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Michael Axtell, Nicholas Baeth, Shane Redmond and Joe Stickles, Jr.*
(jstickles@millikin.edu), 1184 W. Main St., Decatur, IL 62522. *Cut Sets of Zero-Divisor
Graphs of Commutative Rings.*

Zero-divisor graphs of commutative rings are constructed to help illuminate algebraic structure of a ring via graph theory, and they have received much attention in the literature over the past decade. In this talk, we investigate properties of cut sets of zero-divisor graphs of commutative rings and discuss some algebraic information that can be gleaned from these sets. (Received September 22, 2010)