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Darrin Weber* (dweber3@vols.utk.edu). *The Classification of Zero-Divisor Graphs of Commutative Rings Without Identity*. Preliminary report.

The zero-divisor graph of a commutative ring R , denoted $\Gamma(R)$, is a graph whose vertices are the nonzero zero-divisors of the ring R with edges drawn between vertices x and y if and only if $xy = 0$. In a paper from 2006, Shane Redmond classified all finite rings with identity that had zero-divisor graphs on vertices ≤ 14 . We look at extending this work to commutative rings without an identity. (Received September 19, 2016)