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Sara Malec* (malec@hood.edu). *The Intersection Algebra of Ideals.*

The intersection algebra of a collection of ideals in a Noetherian ring captures information about how the intersections of powers of those ideals change. While these algebras are simple to define, little is known about them in general. This talk presents some new developments by investigating these objects through their combinatorial and algebraic properties. (Received September 15, 2015)