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Sara L. C. Malec* (smalec@pacific.edu), Department of Mathematics, University of the Pacific, Stockton, CA 95207. *On the Intersection Algebra of Ideals.*

Given two ideals in a Noetherian ring, the intersection algebra is an object that captures some information on the relationships between those two ideals. In this talk, we use a connection to semigroup rings to describe many properties of the intersection algebra of ideals in a UFD, including an algorithm that produces its generating set. (Received September 17, 2013)