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Sara L. C. Malec* (smalec@gsu.edu), Department of Mathematics and Statistics, 30 Pryor St, Atlanta, GA 30303. *On the intersection algebra of principal ideals*. Preliminary report.

Given two ideals in a Noetherian ring R , 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 some properties of the intersection algebra, including an algorithm that produces its generating set. (Received December 03, 2012)