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University of South Carolina, Columbia, SC. *The \*-core of an ideal.*

Assume that  $(R, \mathfrak{m})$  is a local Noetherian ring of characteristic  $p > 0$ . In this setting, we will discuss the \*-core of an ideal,  $I$ , and some instances where we know a formula for the \*-core( $I$ ). (Received August 28, 2009)