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Angela L Kohlhaas* (akohlhaa@nd.edu), 255 Hurley Hall, University of Notre Dame, Notre Dame, IN 46556. *The core and the adjoint: a condition for equality.*

The core of an ideal I is the intersection of all ideals contained in I with the same integral closure as I . In the Briançon-Skoda theorem, an inclusion arises between the core and certain adjoint, or multiplier, ideals. The question of when equality holds has been tied to Kawamata's conjecture about non-vanishing of sections of line bundles. I will use combinatorics to illustrate a condition for equality for certain classes of monomial ideals. (Received August 14, 2009)