

Meeting: 1003, Atlanta, Georgia, COLLOQ3, AMS Colloquium Lectures:Lecture III

1003-14-7 **Robert Lazarsfeld***, University of Michigan, Department of Mathematics, 2072 East Hall, 525 E Univ Avenue, Ann Arbor MI 48109-1109. *How polynomials vanish: Singularities, integrals, and ideals, Part III: Global applications of multiplier ideals.*

The multiplier ideals introduced in the previous lecture have found applications to several important global questions. In this lecture, we will discuss a couple of these. The emphasis will be on explaining, in non-technical fashion, the meaning and significance of the results. (Received March 22, 2004)