

Meeting: 998, Houston, Texas, SS 21A, Special Session on Homological Algebra of Commutative Rings

998-13-363 **Hema Srinivasan*** (hema@math.missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. *Multiplicity Bounds for Ideals linked to a Complete Intersection.*

We will report mainly on the joint work with Leah Gold and Hal Schenck on a conjecture of Herzog-Heneke-Srinivasan on bounds for multiplicities. We show that if X is a zero dimensional CI in P^n , and Z is a subscheme corresponding to a small number of points or points on a line and Y is the residual subscheme, then the conjectured multiplicity bounds hold for R/I_Y .

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