



The University of Mississippi
Department of Mathematics

Departmental Colloquium

Dr. Florian Enescu
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Multiplicity in algebra and geometry

Friday, November 13, 2009
2:00 P.M.
Hume 331

Abstract: The multiplicity of a root of a polynomial equals its order of vanishing. A point on an algebraic variety is a solution to a system of polynomial equations. For such a point, how is its multiplicity defined? We will discuss some of the historical approaches to this question. In relation to this, we will present a new multiplicity, called Hilbert-Kunz multiplicity, and discuss some open problems related to it that have algebro-geometric as well as number theoretical flavor.

Faculty, Staff and Students are welcome to attend