COLLOQUIUM

University of Notre Dame
Department of Mathematics

Luca Chiantini

University of Siena (Italy)

Will give a lecture entitled

Geometric aspects of Tensor Analysis

On

Wednesday, October 24, 2012

at 4:15 PM in Room 117 Hayes-Healy Hall

Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.

 Abstract:

Tensors, i.e. multivariate matrices, are a natural tool for the study of several fields of Mathematics. Despite their large applicability, many basic questions on the (multi-)linear Algebra of tensors are still unknown. Recently, results on secant varieties to projective varieties provided a new point of view and some advances in the theory of tensors. In the talk, I will illustrate an introduction to the connections between algebraic properties of spaces of tensors and the geometry of Segre varieties, with a view toward new open problems that the interaction suggests.