



Speaker: Bernadette Boyle
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Monday, November 9, 2009
4:15 PM
231 Hayes-Healy Hall

Title: Cayley-Bacharach Theorem through the ages

Abstract:

Much of algebraic geometry focuses on the vanishing locus of systems of polynomials, as well as, the polynomials that vanish on a certain subspace. In this talk, I will discuss some of the major tools algebraic geometers use in studying these vanishing loci and polynomials while focusing on a classical result in algebraic geometry, the Cayley-Bacharach theorem. I will discuss several different formulations of the Cayley-Bacharach theorem from its earliest roots in Pappus' Theorem (4th century AD), through the twentieth century. This talk is based on the paper "Cayley-Bacharach Theorems and Conjectures" by D. Eisenbud, M.Green, and J. Harris.