Queen's Algebraic Geometry — Seminar —

Hilbert Functions of Subsets of Complete Intersections

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Abstract

A characterization of which sequences can be the Hilbert function of a finite set of distinct points in projective space follows from the work of Macaulay, Hartshorne, and others. Although Hilbert functions of complete intersections are well-known, Hilbert functions of subsets of complete intersections have not yet been classified, even for the reduced zero-dimensional case. In this talk we will see a Macaulay-type characterization for a family of such sequences.

Monday, March 7, 2005
2:30pm – 3:30pm
422 Jeffery Hall