

Queen's Algebraic Geometry — Seminar —

SUBORDINATE LOCI ON SYMMETRIC PRODUCTS AND SYZYGIES OF POINTS

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Abstract

The d -th symmetric product C_d of a smooth projective curve C is a smooth projective variety which encodes the “degree- d aspect” of the geometry of C . The subordinate loci on C_d associated to linear series on C encode the degree- d aspect of maps from C to projective space. In this talk, I will discuss how these loci govern the cone of effective divisors of C_d , how some natural divisors on C_d may be characterized as subordinate loci associated to higher-rank vector bundles, and also a conjectural description of the effective cone of C_d when C is a general curve of genus g and d is at least $(g/2) + 1$.

Monday, November 9, 2009
3:00pm – 4:00pm
319 Jeffery Hall