Queen's Algebraic Geometry
— Seminar —

Rational Curves on Hypersurfaces

ERIC RIEDL
Harvard University

Abstract

Let X be a general degree d hypersurface in n-dimensional projective space, and consider the spaces of rational curves on X. Following work of Harris, Roth, Starr, Beheshti and Kumar, we prove that the space of degree e rational curves on X is irreducible and we compute its dimension for $n > d + 1$. This resolves all but the $n = d + 1$ case of a conjecture of Coskun, Harris and Starr. This is joint work with David Yang.

Monday 23 February 2015
16:30–17:30
319 Jeffery Hall