

Algebraic Geometry Seminar

Spaces of Rational Curves on Fano Manifolds

Jason Starr (SUNY Stony Brook)

Abstract: A projective manifold is "Fano" if the expected dimension of the parameter space of rational curves of a given effective curve class increases with the multiple of that class. A conjecture of Cohen-Jones-Segal predicts the topology of these parameter spaces. I will focus on the simplest Fano manifolds, general low degree hypersurfaces in projective space. I will explain work of Riedl-Yang on irreducibility of the parameter spaces, joint work with Zhiyu Tian on the Picard groups, and joint work with Coskun and Harris that gives the nef cones.

Wednesday, February 24 at 4:00 PM in SEO 427