

Northeastern University



Mathematics Department

Geometry, Physics, and Representation Theory Seminar

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Thursday, September 13, 2:50-3:50 pm, Lake Hall 509

Rational curves on prime Fano threefolds

Abstract

Manin's Conjecture predicts that the behavior of rational curves on a Fano variety is controlled by certain geometric invariants. We verify this conjecture for "most" Fano threefolds X of Picard rank 1 by computing the dimension and the number of components of the moduli space of rational curves. In this talk I will focus on the index 1 case and the role played by Manin's Conjecture in formulating the argument. This is joint work with Sho Tanimoto.