

Geometry, Physics, and Representation Theory
Northeastern University

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Thursday, October 12, 2:50-3:50 pm, Lake Hall 509

Hyperbolicity Properties of Base Spaces of Families with Maximal Variation.

Abstract

Hyperbolicity is an interesting but difficult property for both analytic and algebraic varieties. I will recall some related conjectures from both analytic and algebraic points of view. Then I will introduce a new hyperbolic result for base space of families with maximal variation and deduce Brody hyperbolicity for moduli stacks of polarized varieties of general type from it. If time permits, I will also explain how Hodge theory comes into this story. This is a recent work joint with Mihnea Popa and Behrouz Taji.