

*Algebraic Geometry and
Commutative Algebra Seminar*



Speaker: **Jeffrey Diller**
 University of Notre Dame

Tuesday, April 2, 2013
3:00 pm
Room: 258 Hurley Hall

Title: Plane rational maps with invariant two forms

Abstract:

There has been a lot of recent work on dynamics of rational maps $f : \mathbf{P}^2 \rightarrow \mathbf{P}^2$. Many of the examples that have guided this work come equipped with an invariant meromorphic two form. I will discuss recent work with Jan-Li Lin in which we classify invariant two forms. Roughly speaking we show that if a map preserves a two form, then after birational change of coordinate, either the two form has no zeroes or the map also preserves a fibration. I plan to give a lot of examples and discuss some dynamical implications.