

Speaker: **Jan-Li Lin**
 University of Notre Dame

Tuesday, April 30, 2013

3:00 pm

Room: 258 Hurley Hall

Title: Stabilization for plane rational maps with invariant two forms

Abstract:

This is the second part of the work joint with Jeff Diller, but this talk will be pretty much independent of Jeff's talk. The focus will be on rational maps on \mathbf{P}^2 which preserve the meromorphic two form $\eta = \frac{dx \wedge dy}{xy}$. For a rational map we can define the pullback map on cohomology groups. If the pullback map is compatible with taking iterates of f , then we say f is *stable*. Our result is a classification of ration maps preserving η according to whether they can be made stable or not by performing proper modifications.