

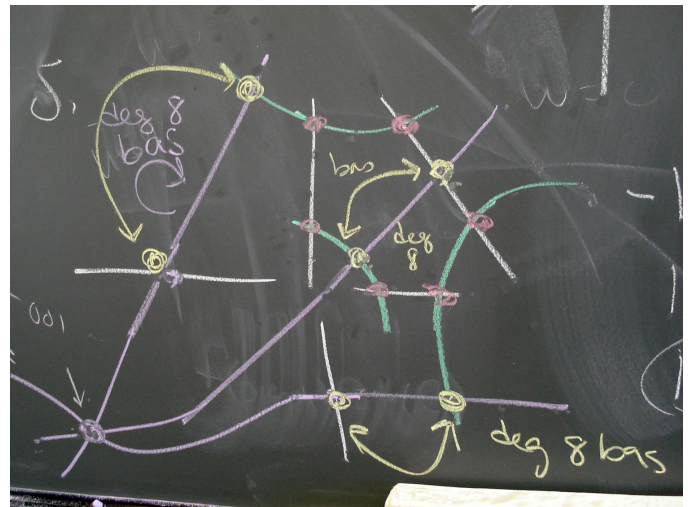
# The Oliver Club

[www.math.cornell.edu/~oliver/](http://www.math.cornell.edu/~oliver/)

**Roland Roeder**, Indiana University-Purdue University Indianapolis

## ***Algebraic Stability and Dynamical Degrees for Rational Mappings of Deligne-Mumford Compactification***

*The most fundamental dynamical invariants of a rational mapping  $f : X \rightarrow X$  are its dynamical degrees, which describe the rate of growth for the action of iterates of  $f$  on the cohomology of  $X$ . We study rational mappings of the Deligne-Mumford compactification of the moduli space of  $n$  points on the Riemann sphere. Because of the beautiful recursive structure of this space, we are able to provide many new examples of rational maps of algebraic varieties of arbitrary dimension for which the dynamical degrees can be computed. This is joint work with Sarah Koch.*



Thursday, April 17, 2014  
at 4:00 PM in 532 Malott Hall

Refreshments will be served at 3:30 PM in the Mathematics Department lounge (532 Malott Hall).