1096-35-560    **Hantaek Bae\*** (`hantaek@math.ucdavis.edu`) and **Marco Cannone** (`marco.cannone@univ-mlv.fr`). *Gevrey regularity of the Navier-Stokes Equations and its applications.*

In this talk, we present how to obtain global (in time) Gevrey regular solutions to the Navier-Stokes equations with small data in critical spaces. This has several applications in the study of long time dynamics. We here show Log-Lipschitz regularity of mild solutions. (Received September 06, 2013)