

Meeting: 1004, Bowling Green, Kentucky, SS 13A, Special Session on Nonlinear Analysis and Applied Mathematics

1004-35-80 **Govind Menon*** (menon@dam.brown.edu), Division of Applied Mathematics, Box F, Brown University, Providence, RI 02912. *Universality in Burgers turbulence.*

A misleading (but still interesting) model of turbulence is to consider the solutions to Burgers equation with random initial data. I will describe the classification of asymptotic statistics in one such model. The result relies on a striking result of Bertoin (Comm. Math. Phys. 193, 1998) connecting Burgers equation to a mean-field model of coagulation.

This is joint work with Bob Pego. (Received January 17, 2005)