

1152-37-75

Vincent R Martinez* (vrmartinez@hunter.cuny.edu), Department of Mathematics and Statistics, City University of New York-Hunter College, 695 Park Ave, New York, NY 10065.

Unique Ergodicity for the stochastic damped-driven KdV equation. Preliminary report.

In 1967, Foias and Prodi captured precisely a notion of finitely many degrees of freedom for the 2D incompressible Navier-Stokes equations. This notion has since led to several developments in the understanding of the long-time behavior of solutions to the NSE, particularly, in the context of turbulence. In this talk, we will discuss this property as it regards the issue of uniqueness of ergodic invariant measures for the stochastically forced, damped-driven Korteweg-de Vries equation. This is joint work with Nathan Glatt-Holtz and Geordie Richards. (Received August 21, 2019)