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Nathan Glatt-Holtz* (negh@vt.edu). *Inviscid Limits for the Stochastic Navier-Stokes Equations and Related Systems.*

We will discuss some recent work on the statistical and ergodic properties of the stochastic Navier-Stokes equations (and related systems) in the inviscid limit. Connections to the Komogorov and Kraichnan-Batchelor theories of turbulence and will be made. This represents ongoing work with P. Constantin (Princeton), S. Friedlander (USC), V. Sverak (Minnesota), V. Vicol (Princeton). (Received January 18, 2015)