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*Invariant Measure for the Time-Dependent Navier-Stokes Equations.*

We will discuss recent results on the existence and uniqueness of time-invariant measure for the time-dependent two-dimensional Navier-Stokes equations on the sphere under a random kick-force. In particular, for the time-periodic deterministic forces the problem is reduced to the study of the associated Markov chain and necessary conditions for the existence and uniqueness of the measure are presented. Possible extensions to the full time-dependent equations are also discussed. (Received January 15, 2015)