Ergodicity of Stochastic 2D Navier-Stokes equations with Lévy Noise

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Abstract

This talk is concerned with 2D Navier-Stokes equation with Levy noise. The existence and uniqueness of the global strong and weak solutions and the existence of invariant measures is proved in in our previous paper. But in that framework, it seems that it is impossible to get the strong Feller property. In this talk, we show that the on a suitable state space, the solution is strong Feller. For getting the ergodicity, the priori estimations and stopping time technique play the key role in the proofs.