Séminaire de Probabilités et Statistique

Mardi 10 mai à 14h00

Salle de réunion Fizeau

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Superdiffusion transition for a noisy harmonic chain subject to a magnetic field

Understanding the diffusive or superdiffusive behavior of the energy in classical physical systems is challenging because of the non-linearity of the interactions between the particles. A way to reduce the difficulty is to replace the nonlinearity by a stochastic noise. In this presentation I will consider a noisy harmonic chain subjected to a magnetic field. We will see that according to the intensity of the magnetic field, the superdiffusive nature of the system changes.