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Random Lorentz gas and deterministic walks in random environments

Abstract: Although one could naively expect that random Lorentz gases are easier to investigate than deterministic periodic ones, this seems not to be the case as essentially no results are available in the non periodic case.

In this talk, I will present some general ideas towards studying random Lorentz gases and I will show how to apply them for a class of deterministic walks in random environments with one-dimensional uniformly expanding local dynamics.

Sala de Reuniões do Departamento de Matemática

28 de Maio - 14:30