universität innsbruck

Department of Mathematics

Inn'formal Probability Seminar

Nicolas Bouchot (Université Paris-Dauphine)

“ Confined random walk and tilted interlacements”

Abstract:

Consider a large domain of Z^d, in which a simple random walk is trapped ”forever”. This confined walk can be modelled by a random walk on conductances given by the first eigenvector of the discrete Laplacian on the domain. I will present a coupling between the range of this walk after a long time and so-called "tilted interlacements". Random interlacements are formally a Poisson soup of independent random walk trajectories, whose density is controlled by some positive parameter. This coupling uses the soft local times method, which I will also present.

Tuesday | 06.05.2025 | 15:30
HS 10, Architecture Building