

Chilean Probability Seminar

Speaker: Elisabetta Candellero, Università degli Studi Roma Tre, Italia

Title: Competition processes on hyperbolic non-amenable graphs.

Abstract:

We consider two first-passage percolation processes, FPP_1 and FPP_λ , spreading with rates 1 and λ respectively, on a graph G with bounded degree. FPP_1 starts from a single source, while the initial configuration of FPP_λ consists of countably many seeds distributed according to a product of iid Bernoulli random variables of parameter μ on the set of vertices.

This model is known as "First passage percolation in a hostile environment" (FPPHE), it was introduced by Stauffer and Sidoravicius as an auxiliary model for investigating a notoriously challenging model called Multiparticle Diffusion Limited Aggregation. We consider several questions about FPPHE, focusing on the case where G is a non-amenable hyperbolic graph. This talk is based on joint works with Alexandre Stauffer.

La sesión del 4 de mayo del Seminario de Probabilidades de Chile se realizará de forma híbrida en la sala multimedia del 6to Piso del Centro de Modelamiento Matemático.

El enlace para conectarse al seminario es:

Unirse a la reunión Zoom

<https://reuna.zoom.us/j/84521834914?pwd=OTZ6Y0NWM3pYTGtTbEt3c0luTG96UT09>

ID de reunión: 845 2183 4914

Código de acceso: 997973

Wednesday, May 04, 16:15 hrs (Chilean time).

