

Seminario de Probabilidades de Chile

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Título: Poisson-Voronoi percolation in high dimensions.

Resumen:

We consider a Poisson point process with constant intensity in \mathbb{R}^d and independently color each cell of the resulting random Voronoi tessellation black with probability p . The critical probability $p_c(d)$ is the value for p above which there exists almost surely an unbounded black component and almost surely does not for values below. In this talk I aim to give an overview of the model and sketch some ideas of a proof that $p_c(d) = (1 + o(1)) 2^{-d}$, as $d \rightarrow \infty$. We also obtain the corresponding result for site percolation on the Poisson-Gabriel graph, where $p_c(d) = (1 + o(1)) 2^{-d}$.

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

**Modalidad híbrida en la sala Maryam Mirzakhani, Torre Norte Piso 6, , Beauchef 851.
Miércoles 01 de Noviembre 2026 a las 16:15 horas.**

