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Beauchef 851, edificio norte, Piso 7 Santiago, Chile CP 837 0456

Tel. +56-2 2978 4870

## **Seminar AGCO**

Speaker: Nicolás Rivera, Universidad de Valparaíso.

*Title*: The Dispersion Time of Random Walks on Finite Graphs.

**Abstract:** Consider two random processes on an n vertex graph related to Internal Diffusion-Limited Aggregation (IDLA). In each process n particles perform independent random walks from a fixed vertex until they reach an unvisited vertex, at which point they settle. In the first process only one particle moves until settling and then the next starts, in the second process all particles are released together.

We study the dispersion time which is the time taken for the longest walk to settle. We present a new coupling which allows us to compare dispersion time across the processes. We additionally prove bounds on the dispersion time(s) in terms of more well-studied parameters of random walks such as hitting times and the mixing time.

Wednesday, April 28, 14:30 hrs (Chilean time).

Dónde: https://zoom.us/j/97375770036?pwd=TmxQVjRmRGRTYWFqd2FrcFNFNWdEdz09

Password: 774323

