

Seminario de Probabilidades de Chile

Orador: Sebastián Barbieri, Universidad de Santiago de Chile

Título: Cellular automata and Percolation on groups.

Resumen: a classical theorem of Gilman shows that every cellular automaton over the integers satisfies a strong dichotomy with respect to any iid Bernoulli process: either almost all configurations are sensitive to initial conditions or it is almost everywhere equicontinuous.

If instead of the integers we consider an arbitrary finitely generated group, we will show that there is a strong connection between the triviality of the percolation threshold and the validity of this dichotomy. Using this connection, we will show that Gilman's dichotomy holds on a countable group if and only if it is locally virtually cyclic.

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 09 de Abril 2025 a las 16:15 horas.**

