

SEMINARIO

CONJUNTO DE MODELAMIENTO ESTOCÁSTICO Y NÚCLEO MILENIO MODELOS ESTOCÁSTICOS DE SISTEMAS COMPLEJOS Y DESORDENADOS.

**EXPOSITOR
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TITLE

Some percolation processes with infinite-range dependencies and with inhomogeneous lines.

ABSTRACT:

Consider the hyper-cubic lattice and remove the lines parallel to the coordinate axis independently at random. Does the set of remaining vertices undergo a sharp phase transition as the probability of removing the lines vary? How many connected components are there? In this talk we discuss these question for this model and for a continuous analogous model in which we remove cylinders from the Euclidian space in a isometry invariant way. We also discuss for Bernoulli bond percolation processes in the square lattice, how enhancing the parameter in a set of vertical lines chosen uniformly at random changes the critical point.

Viernes 18 de Diciembre las 17:00 hrs, Sala de Seminarios DIM, Quinto Piso, Beauchef 851.

