

Subcritical bootstrap percolation models have non-trivial critical probabilities

Paul Smith

IMPA, Rio de Janeiro

Resumo/Abstract:

In this talk we shall prove that there exist natural generalizations of the classical 2-neighbour bootstrap percolation model on \mathbb{Z}^2 that, unlike the original model, have non-trivial critical probabilities. Moreover, we shall characterize all such models under the assumptions that they are homogeneous, local and monotone.

This is joint work with Paul Balister, Béla Bollobás and Michal Przykucki.