Seminar/Talk

The Arboreal Gas

Tyler Helmuth
Durham University

Host: M. Beiglböck, N. Berestycki, L. Erdös, J. Maas, F. Toninelli

In Bernoulli bond percolation each edge of a graph is declared open with probability p, and closed otherwise, and one typically asks questions about the random subgraph of open edges. The arboreal gas is the probability measure obtained by conditioning on the event that the percolation subgraph is a forest, i.e., contains no cycles.What are the percolative properties of these random forests? Do they contain giant trees? I will discuss what is known and conjectured, including a surprising connection with reinforced random walks.

Tuesday, June 1, 2021 04:30pm - 05:15pm
Online via Zoom

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