

Ancestral lineages and random walk on oriented clusters

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Abstract:

We show how a question about ancestral lineages in locally regulated populations leads to investigate directed random walks on oriented percolation clusters. These random walks can be interpreted as random walks in dynamical random environment. We give Central Limit Theorems for these random walks and explain some open questions.

The talk is based on joint work with Andrej Depperschmidt, Matthias Birkner and Jiri Cerny (EJP 2013).