

Unité de probabilités

Séminaires programmés

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Conférence en probabilité

Mardi 5 juin 2007 à 13h45
[MA 12](#), EPFL, Ecublens

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Analysis of a Homopolymer

Résumé

We consider the behavior of paths on Z^d with respect to a Gibbs measure obtained by multiplying the usual measure on simple symmetric random walk paths by

$$\exp\left(b \int_0^t \delta_0(x_s) ds\right)$$

where δ_0 is the Dirac δ at 0, and then normalizing by a factor $Z(t)$ to get a probability measure.

Then the behavior of the resulting paths depends on the dimension and the size of the positive parameter b .

This talk is based on joint work with S. Molchanov.

date de mise à jour : septembre 06

