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# LARGE DEVIATIONS FOR RANDOM WALK IN A RANDOM ENVIRONMENT

Atila Yılmaz

Weizmann Institute of Science, Israel

## Abstract

Random walk in a random environment (RWRE) is a discrete time Markov Chain on  $\mathbb{Z}^d$  with random transition probabilities that are stationary and ergodic under translations. The theory of large deviations is concerned with the exponential rate of decay of the probabilities of rare events. In this talk, I will present my results on large deviations for RWRE. These results constitute my Ph.D. thesis. See <http://arxiv.org/abs/0809.1227> for more information.

**Date:** Thursday, December 4, 2008

**Time:** 14:30

**Place:** IMBM Seminar Room, Boğaziçi University