
**ATHENS *Pr*OBABILITY
COLLOQUIUM**
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Math Dept, University of Athens

**“Einstein Relation and the Speed of Biased Random Walk
in Random Environment”**

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Abstract:

We consider biased random walk on percolation clusters or among random conductances. They serve as a model for transport in an inhomogeneous medium. We investigate the speed of the walk as a function of the bias. In particular, we state the Einstein relation which is proved in the random conductance case. As time permits, we also mention recent results about Mott walks.

No prior knowledge is assumed.

The results we present come from joint work(s) with Noam Berger, Alessandra Faggionato, Xiaoqin Guo, Jan Nagel and Michele Salvi.

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