GRADUATE COLLOQUIUM

Wednesdays, 13-15 (FIM Tea to follow)
Hermann Weyl Zimmer (HG G43, ETH Zentrum)

Speaker: **Tom Schmitz**
Title: **Random Walks in Random Media**
Date: Wednesday, April 7th

Abstract: Random motions in random environment significantly differ from usual random motions. In this talk we will focus on questions related to the asymptotic behavior. We will begin with a discussion of one-dimensional models, and of the so-called “method of the environment viewed from the particle”. We will then discuss random walks in random environment in higher dimension. They represent a significant challenge due to their genuinly non-self-adjoint character. We present new methods based on renewal-type arguments which allow to bypass this difficulty, and which shed some light on the asymptotic behavior of walks with non-degenerate limiting velocity.

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