

1019-60-193

Alexander Roitershtein* (roiterst@math.ubc.ca), Department of Mathematics, UBC,
121-1984 Mathematics Road, Vancouver, BC V6T 1Z2, Canada. *Transient random walks on a
strip in a random environment.*

We will discuss limit theorems (LLN and CLT for the position of the walker, and the limit law of the “environment viewed from the particle”) for transient random walks on a strip $\mathbb{Z} \times d$ ($d \in \mathbb{N}$) in a random environment. The model was introduced by Bolthausen and Goldscheid and includes in particular RWRE with bounded jumps on \mathbb{Z} as well as some one-dimensional RWRE with a memory. In addition, the large deviation principle and in particular the relation between quenched and annealed rate functions will be briefly discussed in the talk. (Received August 15, 2006)