



From random walk trajectories to random interlacements

Jiří Černý
Augusto Quadros Teixeira

Abstract. We review and comment recent research on random interlacements model introduced by A.-S. Sznitman in the paper ‘*Vacant set of random interlacements and percolation*’ (Ann. of Math. 171 (2010)). A particular emphasis is put on motivating the definition of the model via natural questions concerning geometrical/percolative properties of random walk trajectories on finite graphs, as well as on presenting some important techniques used in random interlacements’ literature in the most accessible way. This text is an expanded version of the lecture notes for the mini-course given at the XV Brazilian School of Probability in 2011.