Discrete Mathematics Seminar

Time: Friday, 22 November 2013, 1:00-2:00 PM

Room: 238 Derrick Hall

Title: Introduction to Random Walks in Random and Non-random Environments

Speaker: Dr. Youngsoo Seol, Mathematics Department

Abstract:

This talk is an introducatary talk about random walks on Z and random walks in random environments on Z. In this talk, we will study the basic asymptotic behaviors such as recurrence/transience criteria, speed of random walks and limiting distribution for random walks on Z and random walks in random environments(briefly say, RWRE) on Z. There are two type of limit theorem for RWRE as both recurrent and transient regimes. However, we will focus on limit theorem for RWRE on Z under recurrent regime as the Sinai's results.