NYC Dynamics Seminar
at CUNY & Yeshiva University

Behrang Forghani (University of Connecticut)

will speak on

Abramov's formula for random walks on groups

Wednesday, November 9th, 5:00pm

Lectures will last 1 hour and be followed by questions and/or discussion.

CUNY Graduate Center, 365 5th Ave, The Science Center

The Science Center is on the 4th floor. You will need to sign in.

Abstract:

Given a random walk on a countable group, any Markov stopping time gives rise to a new random walk on the same group. We will show that the asymptotic entropy (rate of escape) of such transformations are equal to the asymptotic entropy (rate of escape) of the original random walk times the expectation of the stopping time. This fact is an analogue of the Abramov formula from ergodic theory. The proof is based on the fact that the Poisson boundaries of these random walks are the same.

Seminar website: `http://nycdynamics.org/`