Abstract

We investigate the behavior of

$$\lim_{n \to \infty} \frac{1}{n} \log E \left[ \exp \left( \sum_{i=1}^{n} a_i V(x_i) \right) \right]$$

where \( \{a_i\} \) are constants and \( \{x_i\} \) is a nicely mixing Markov process. We examine what the limit is and how to identify it. We will also exhibit some unusual applications.

Refreshments will be served in HAAS 111, 4:00 P.M.