“Probabilistic limit laws for chaotic dynamical systems.”

Monday, April 30, 2007
4:10pm
60 Evans Hall

Dr. Lai-Sang Young (Courant Institute)

Abstract:

Deterministic dynamical systems that are chaotic are known to generate observations that resemble those from genuinely random stochastic processes. I will discuss rates of correlation decay, central limit theorems and large deviation principles for a class of dynamical systems including billiards and strange attractors in ODEs and PDEs.

Refreshments at a nearby establishment immediately following the talk!

The purpose of these lectures is to introduce the present year’s research programs at MSRI to the mathematical sciences community in Berkeley. The talks will be expository and nontechnical, providing some of the flavor of ongoing research at MSRI.

Graduate students and Postdoctoral Fellows are particularly invited to attend these lectures.

Further information and links to the MSRI program and workshop web pages are available at:
http://www.msri.org