

MSRI



Mathematical Sciences Research Institute

“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>