

THE CHINESE UNIVERSITY OF HONG KONG

Department of Statistics

will present a seminar entitled

Small Value Phenomena in Probability and Statistics

by

**Professor Wenbo V. Li
University of Delaware**

on

**Tuesday, 6 March 2007
2:00 pm – 3:00 pm**

In

**Lady Shaw Building C2
The Chinese University of Hong Kong**

Abstract:

Two fundamental problems in probability theory and statistical analysis are typical behaviors such as expectations, laws of large numbers, central limit theorems and approximated sampling distributions, and rare events such as large deviations, significant level and power. Small value phenomena come from both typical behaviors and rare events of the type that positive random variables take smaller values. In the literature, small value probabilities of various types are studied and applied to many problems of interest under different names such as small deviation, lower tail behaviors, boundary crossing probabilities, asymptotic evaluation of Laplace transform for large time, stopping rules in sequential analysis, etc. We will provide an overview on current and emerging opportunities in the area.

All are Welcome