



DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE
THE UNIVERSITY OF HONG KONG

40th Anniversary Seminar Series

Professor Shunlong LUO

*Academy of Mathematics & Systems Science
Chinese Academy of Sciences
China*

will give a talk

entitled

SOME INEQUALITIES FOR CHARACTERISTIC FUNCTIONS

Abstract

The notion of characteristic functions (Fourier transform) of probability distribution not only plays an important role in probability theory and statistical analysis, but also has intrinsic physical meaning. After briefly reviewing some motivation and significance of characteristic functions, we report several inequalities discovered quite recently and discuss their implications for quantum evolution. These inequalities involve estimating the first zero of a characteristic function, bounding characteristic functions in terms of Fisher information and moments, determining the magnitudes of characteristic functions under certain constraints, etc. We also mention some open problems.

on

Tuesday, June 10, 2008

11:00 a.m. – 12:00 noon

at

**Room 524, Meng Wah Complex
(behind the Chong Yuet Ming Amenities Centre)**

Visitors Please Note that the University has limited parking space. If you are driving please call the Department at 2859 2466 for parking arrangement.