



2007 - 2008



**MATHEMATICS COLLOQUIUM SERIES
UNIVERSITY OF CENTRAL FLORIDA**

**Professor Andrew Rosalsky
Department of Statistics
University of Florida**

will speak on

**On Almost Sure Convergence, Mean Convergence, and Convergence in
Probability for Normed Double Sums of Banach Space Valued Random Elements**

ABSTRACT: For double partial sums $S(m,n)$ of random elements formed from a double array of independent random elements in a real Rademacher type p Banach space, we present results establishing for suitable normings of the double partial sums (i) Almost Sure Convergence and Mean Convergence to 0 or (ii) Convergence in Probability to 0. Limits are taken as $\max\{m,n\}$ approaches infinity. The Almost Sure Convergence and Mean Convergence result provides an exact characterization of Rademacher type p Banach spaces, and it is shown by an example that the result is sharp. [This talk is based on joint work with Le Van Thanh (Vinh University, Nghe An Province, Viet Nam).]

DATE: Thursday, January 17, 2008

TIME: 11:30 – 12:30pm

PLACE: MAP 318

Refreshments will be served