



2009 - 2010



**MATHEMATICS COLLOQUIUM SERIES
UNIVERSITY OF CENTRAL FLORIDA**

**Dr. Jiongmin Yong
Department of Mathematics
University of Central Florida**

will speak on

“Time-Inconsistent Optimal Control Problems and Some Related Topics”

ABSTRACT: Common sense tells us that people are changing their minds all the time. Also, the environment is changing as time goes by. Mathematically, these issues will lead to some time-inconsistency in optimal control problems. In this talk, we will present a general framework on time-inconsistent optimal control problems. It is shown by some simple examples that naive optimal controls are not time-consistent. Using some sophisticated approach by means of hierarchical differential games, one can obtain time-consistent solutions to the time-inconsistent problems.

DATE: Thursday, October 29, 2009

TIME: 11:00am – 12:00pm

PLACE: MAP 318

Everyone is cordially requested to attend.