



**2007 - 2008**



**MATHEMATICS COLLOQUIUM SERIES  
UNIVERSITY OF CENTRAL FLORIDA**

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**Dr. Lixin Yan  
Department of Mathematics  
University of Missouri - Columbia**

will speak on

**Recent progress on Hardy and BMO spaces associated with operators**

**ABSTRACT:** In this talk, we will discuss some Hardy and BMO spaces associated with operators, which are characterized by relevant estimates of generators of semigroups with suitable heat kernel bounds. Depending on the assumptions of these generators, we will obtain characterizations of the classical Hardy and BMO spaces or obtain new Hardy and BMO spaces associated with operators.

**DATE: Tuesday, March 4, 2008**

**TIME: 10:30am – 11:30am**

**PLACE: MAP 318**

Refreshments will be served