



2008 - 2009



MATHEMATICS COLLOQUIUM SERIES
UNIVERSITY OF CENTRAL FLORIDA

Dr. Robert Brigham
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will speak on

On the Irregular Coloring Number of $K_m \times K_n$

ABSTRACT: Let t be a positive integer. Assign an integer (color) from 0 to $t-1$ to each vertex of a graph G . Associate with each vertex v of G a t -vector $(a_0(v), a_1(v), \dots, a_{t-1}(v))$ where $a_i(v)$ is the number of neighbors of v that have been assigned the integer (color) i . The *irregular coloring number* of G is the smallest value of t such that the integer (color) assignment is a proper coloring of G and the vectors associated with vertices having the same integer (color) assignment are distinct. This talk gives the irregular coloring number of cycles and the Cartesian product of complete graphs, with emphasis on the latter. Hopefully the talk is self-contained, meaning all terms (including those in this abstract) will be defined and no knowledge of graph theory is assumed.

DATE: Thursday, January 15, 2009

TIME: 11:30am – 12:30pm

PLACE: MAP 318

Refreshments will be served.