

DEPARTMENT OF MATHEMATICS COLLOQUIUM
UNIVERSITY OF WEST GEORGIA
1601 MAPLE STREET, CARROLLTON, GA 30118

1:00 PM, TUESDAY, APRIL 17, 2007, BOYD 304

Speaker: **Prof. Hiren Maharaj**, Department of Mathematical Sciences, Clemson University, Clemson, South Carolina

Title: **Asymptotic results in coding theory**

A code is a subset C of A^n where A is a finite set. The distance between two elements (or codewords) of C is measured by the number of coordinates which are different. The minimum distance d of C is the minimum among all distances between any two distinct codewords of C . Natural questions are to find the largest size of a code C with given minimum distance d or to find the largest possible minimum distance if C has a specified size. Both these problems are difficult in general. In this talk, I will discuss asymptotic results in this direction.

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