

DISCRETE MATHEMATICS SEMINAR
Department of Mathematics
State University of West Georgia
3:30 PM, MONDAY APRIL 18, 2005, BOYD 301

Speaker: Dr. Abdollah Khodkar, UWG
Title: **On $(2, r)$ -regular graphs**

Abstract

A graph G is $(2, r)$ -regular if for any pair of distinct vertices x and y , $|N(x) \cup N(y)| = r$. In this talk we use Hadamard matrices to construct an infinite class of $(2, r)$ -regular graphs with $r \geq 3$, none of which are complete. This is an interesting result since it was previously believed that for $r \geq 3$, the only regular $(2, r)$ -regular graph is K_r .

All faculty and students are welcome.