

DEPARTMENT OF MATHEMATICS COLLOQUIUM  
UNIVERSITY OF WEST GEORGIA

4:00 PM, WEDNESDAY, APRIL 8, 2009, BOYD 301

Speaker: **Prof. Hong-Jian Lai, Department of Mathematics, West Virginia Univeristy**

Title: **Group Connectivity of Graphs**

William Tutte in 1950s introduced the theory of nowhere zero flows as the dual problem of graph colorings. Group connectivity problems are the nonhomogeneous nowhere zero flows. They are of interests on their own, as well as their applications in searching for nowhere zero flows. In this talk, we present a brief introduction and survey on group connectivity of graphs, and establish a dual version for the classical Brooks Coloring Theorem.