

DEPARTMENT OF MATHEMATICS COLLOQUIUM
UNIVERSITY OF WEST GEORGIA

5:00 PM, WEDNESDAY, MARCH 12, 2008, BOYD 302

Speaker: **Nguyen Minh Tri, University of Chicago**

Title: **Regularity of solutions of semilinear differential equations**

In this talk we will discuss the regularity of solutions of semilinear differential equations principal parts of which consist of linear polynomial operators constructed from real vector fields. Based on the study of fine properties of the principal linear parts we then obtain the regularity of solutions of the nonlinear equations. Some results are also new for linear differential equations.