

APPLIED MATHEMATICS SEMINAR
Department of Mathematics
University of West Georgia
4 PM, MONDAY, OCTOBER 24, 2005, BOYD 330

Speaker: Dr. Vu Kim Tuan

Title: **Solution Space of PDE Systems**

Abstract

It is a well-known result in ODEs that the solution space of a normal ODE of order n has dimension n . If the same question is posed to PDEs, then the Cauchy-Kovalevskaja theorem tells us that a PDE with analytic coefficients has an infinite dimension solution space.

In this talk I will show you one of my undergraduate results concerning the dimension of solution space of systems of PDEs, that under some natural conditions a system of PDEs has a finite dimension solution space.

All are welcome.