

Pablo Pedregal

Universidad de Castilla-La Mancha

will speak on

**A variational approach to ODE
and its numerical implementation**

ABSTRACT: We will describe an optimization approach to the analysis of ODE based on minimizing an error functional. This minimization process requires some non-standard ingredients but its analysis is quite elementary. After showing existence and uniqueness, we will focus on a numerical implementation based on this approach, and test it with several typical examples. We will end up with a short discussion on the possibilities of the approach for PDE.

MONDAY, 23 FEBRUARY 2009

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS