SEMINARIO

ECUACIONES DIFERENCIALES PARCIALES

EXPOSITOR

André de Laire
Laboratoire Paul Painlevé, Université Lille 1

TITULO

The Landau-Lifshitz-Gilbert equation with rough initial data

Abstract:

In this talk we will consider the Landau-Lifshitz-Gilbert equation, a model describing the dynamics for the spin in ferromagnetic materials. We will discuss the Cauchy problem with initial conditions that are not in the standard Sobolev spaces, but are in the BMO (bounded mean oscillation) space. By using the stereographic projection, this problem is related to the Cauchy problem for a nonlinear Schrodinger equation with rough initial data.

Jueves 18 de diciembre a las 14 : 30 hrs, Sala de Seminarios DIM, 5*to* piso. Beauchef 851, Torre Norte.