



# SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

**Stackelberg strategies for the control of parabolic PDEs**

**ENRIQUE FERNÁNDEZ-CARA**

University of Sevilla, Spain

05/07/2016 (Terça-Feira)

16:00 horas

Sala 221 do IMECC

**Resumo:** This talk deals with the analysis of Stackelberg techniques for the control of linear and nonlinear parabolic PDEs.

Roughly speaking, the aim is to find a hierarchy of controls that can be used to drive the solution exactly to a trajectory at a final time and, also, minimize the distances of the controlled trajectory to one or several prescribed states at appropriate locations.

First, we will consider the so called Stackelberg-Nash controllability strategy for parabolic equations or systems.

Then, we will present other related problems and questions.

In particular, we will consider similar formulations in the context of Navier-Stokes systems, Stackelberg-Pareto strategies, etc.