

# Conferencia

# SANTALÓ 2007

La *Facultad de Ciencias Matemáticas* y la *Revista Matemática Complutense*, patrocinan la conferencia anual Santaló, impartida cada año por un profesor de reconocido prestigio. Esta conferencia marca el inicio de la actividad docente e investigadora de la Facultad en cada año académico.

## Nigel Kalton

Department of Mathematics  
University of Missouri-Columbia (USA)

### The Nonlinear Geometry of Banach Spaces

We will describe some of the main themes in the nonlinear theory of Banach spaces, concentrating on recent developments after the appearance of the book of Benyamini and Lindenstrauss (2000). The area of mathematics has seen many recent advances, partly stimulated by its unexpected connections with other fields. The central problem is the extent to which the linear structure of a Banach space is determined by its geometry. We consider the cases when "geometry" means topology, metric structure, uniform structure or "coarse" structure. We will discuss, for example, the central unsolved problem whether two separable Banach spaces which are Lipschitz isomorphic are linearly isomorphic.

**JUEVES, 4 DE OCTUBRE DE 2007**  
**13:00 HORAS**

**AULA S-118 "MIGUEL DE GUZMÁN"**  
**FACULTAD CC. MATEMÁTICAS**



**Revista Matemática Complutense**  
([www.mat.ucm.es/serv/revista/](http://www.mat.ucm.es/serv/revista/))  
**Facultad de Ciencias Matemáticas**

