SEMINARIO DE ANÁLISIS MATEMÁTICO Y MATEMÁTICA APLICADA

Timur Oikhberg
University of Illinois at Urbana - Champaign

The geometry of unit ball of a Banach lattice, with applications to free lattices

This talk consists of two parts. First, we investigate an "order" version of convexity in Banach lattices. In particular, we define the notion of an "order extreme point," and obtain "positive" analogues of Hahn-Banach separation, and of Krein-Milman theory.

In the second part, we represent the unit balls of free Banach lattices as order convex hulls of "manageable" sets. From this, we extract information on approximation properties of free Banach lattices, as well as on the norms of lattice homomorphisms between them.

(Joint work with M.A.Tursi)

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Lugar: Aula Alberto Dou (209)
Facultad de CC Matemáticas, UCM**