

# SEMINARIO IMAC DE ANÁLISIS



## Conferencia a cargo de Dikran Dikranjan *Università degli studi di Udine (Italia)*

### *The Mackey topology problem*

**ABSTRACT:** Mackey proved that every locally convex topological vector space  $(V, T)$  admits a finest compatible locally convex topology  $T'$ , i.e. such that  $(V, T')$  and  $(V, T)$  have the same dual. Roughly twenty years ago M.J. Chasco, E.M. Peinador and V. Tarieladze considered a counterpart of this topology (named Mackey topology) in the realm of locally quasi convex topological abelian groups, where the notion of compatibility is widely motivated by the interest in dualities for topological abelian groups. The problem of whether every locally quasi convex group admits a Mackey topology remained open, yet many partial results were obtained over the years.

The talk will discuss some recent results in this area, including the quite recent final solution of the problem.

**Fecha:** 20 de octubre de 2017, a las 10:00 horas

**Lugar:** **IMAC** (Seminario TI1329SD), ESTCE. Universitat Jaume I de Castelló

