

SEMINARIO IMAC DE ANÁLISIS



Conferencia a cargo de Francisco Villarroya *Lund University (Suecia)*

T(1) Compact Theory

RESUMEN: *We prove a $T(1)$ -type theorem which characterizes compactness of singular integral operators whose kernels satisfy a smoothness condition with decay along the diagonal. In the same spirit of David and Journé's original $T(1)$ Theorem, we provide this characterization in terms of the action of the operator over special families of functions. For this reason, we define a new property of 'weak compactness' and a proper substitute for the space BMO . We apply our main theorem to prove compactness of some particular perturbations of the Cauchy Integral.*

Fecha: 13 de septiembre de 2012, a las 11:00 horas

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