

# SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes 17 de febrero,

11:30 h., Módulo 17 - Aula 520 (Depto. Matemáticas UAM)

**Javier Parcet**

ICMAT

A non-trigonometric Hörmander-Mikhlin  
theorem

## Resumen:

Solving a problem formulated by Mikael de la Salle, we shall present a rather simple extension of the Hörmander-Mikhlin theorem which applies beyond the context of Fourier multipliers. Applications include an inequality that improves Arazy's conjecture and unexpected results in harmonic analysis on nilpotent and high rank semisimple Lie groups. Assuming no familiarity with the topic, we shall begin with an historical overview on Schur multipliers which goes back to the work of Grothendieck and Haagerup.

This talk is based on two joint papers with J. Conde, A. González and E. Tablate.

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