

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 5 de marzo de 2021

11:30 h., ONLINE - URL: <https://zoom.us/j/93006435602>

Karlheinz Gröchenig

Universität Wien

New Function Spaces Associated to
Representations of Nilpotent Lie Groups

Resumen:

To every irreducible, unitary, square-integrable representation of a locally compact group one can associate a family of function spaces. Many families of function spaces, notably the Besov-Triebel-Lizorkin spaces, Bergman spaces on the disk, and modulation spaces arise in this way. In this talk we focus on the function spaces that are related to square-integrable, irreducible, unitary representations of several low-dimensional nilpotent Lie groups. These are new examples of coorbit theory and yield new families of function spaces on \mathbb{R}^d . The mathematical challenge is to decide when such spaces are different.

ICMAT CSIC-UAM-UC3M-UCM
Departamento de Matemáticas. U.A.M.

