SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 24 de enero de 2020

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

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Vector-valued time-frequency analysis and the bilinear Hilbert transform

Resumen:

The bilinear Hilbert transform is a bilinear singular integral operator (or Fourier multiplier) which is invariant not only under translations and dilations, but also under modulations. This additional symmetry turns out to make proving L^p-bounds especially difficult. I will give an overview of how time-frequency analysis is used in proving these L^p-bounds, with focus on the recently-understood setting of functions valued in UMD Banach spaces.

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