

# SEMINARIO DE ANÁLISIS Y APLICACIONES

Jueves, 22 de junio de 2017

12:00 h., Módulo 17 - Aula 520 (Depto. Matemáticas UAM)

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Rescaled extrapolation and Fourier multipliers in Banach function spaces

## Resumen:

We prove a version of Rubio de Francia's rescaled extrapolation theorem for functions taking values in a  $q$ -convex Banach function space with UMD  $q$ -conconcavification. As an application we prove Littlewood-Paley-Rubio de Francia-type estimates for such functions, and from these we prove Coifman-Rubio de Francia-Semmes-type multiplier theorems for operator-valued Fourier multipliers of bounded  $s$ -variation.

Joint work with Emiel Loris and Mark Veraar (TU Delft)

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