Seminario de Análisis y Aplicaciones

Viernes, 13 de diciembre de 2019

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

Natalia Accomazzo Scotti

Universidad del País Vasco - Euskal Herriko Unibertsitatea

Maximal directional singular integrals

Resumen:

Maximal directional singular integrals are defined by considering a one dimensional singular integral operator acting along a line in the Euclidean space, and then studying the maximal value as the line changes through a set of directions. Unlike the case of maximal directional averages, when considering singular integrals we are forced to admit only finite sets of directions in order to get L^p boundedness. In this talk we will talk about the case when the set of directions is finite and lacunary, which gives us optimal L^p bounds depending on the number of directions.

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