

SEMINARIO DE ANÁLISIS Y APLICACIONES

Lunes, 2 de diciembre de 2019

15:30 h., Módulo 17 - Aula 520 (Depto. Matemáticas UAM)

Andreas Seeger

University of Wisconsin-Madison

L^p improving estimates for circular
maximal functions

Resumen:

For $f \in L^p(\mathbb{R}^2)$, let $A_r f(x)$ be the mean of f over the circle of radius r centered at x . For a set $E \subset [1, 2]$ one can ask about $L^p \rightarrow L^q$ estimates for the maximal function $\sup_{r \in E} |A_r f(x)|$. How does the (p, q) -parameter range for such estimates depend on the set E ? We discuss results from two recent papers, one with Theresa Anderson, Kevin Hughes and Joris Roos, and one with Joris Roos.

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Departamento de Matemáticas. U.A.M.

