Seminario de análisis matemático y aplicaciones
Analisi matematikoa eta aplikazioak mintegia

Free boundary problems for harmonic measure and uniform rectifiability

MIHALIS MOURGOGLOU

UPV/EHU

ABSTRACT:

The past few years there has been a renaissance of new results of harmonic measure in domains in the Euclidean space in connection with (uniform) rectifiability. The connection between boundedness of Riesz transform and rectifiability due to the celebrated result of Nazarov, Tolsa and Volberg, and the theory of Calderon-Zygmund operators for non-homogeneous measures have played a significant role in the flourishing of this field. In this talk, I will discuss some recent advances in (quantitative) one-phase and two-phase free boundary problems for harmonic measure, and time permitting, some PDE characterizations of uniform rectifiability.

LUGAR / LEKUA:
Sala de seminarios de la sección de matemáticas
Matematika ataleko mintegi gela

DÍA Y HORA / EGUNA ETA ORDUA:
08/02/2018, 12:00