

Dilluns 9 de gener del 2012, 15:00h

Aula petita del CRM.

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**On an inverse problem for the Schrödinger equation in the plane.**

ALBERT CLOP

Universitat Autònoma de Barcelona

**ABSTRACT:**

Calderón's inverse conductivity problem can be reduced to an inverse problem for the Schrödinger equation. However, for the latter, no global uniqueness result was known (even for  $C^\infty$  potentials), until a paper by Bukhgeim appeared in 2008. In this talk, we will discuss Bukhgeim's result, which asserts that the Cauchy data set for a Schrodinger equation uniquely determines the potential, at least when it is piecewise in  $W^{1,p}$ ,  $p > 2$ .