

Determining a magnetic Schrodinger operator from partial Cauchy data

David Dos Santos Ferreira
Department of Mathematics, Universit Paris 13
dds@math.univ-paris13.fr

Abstract

In this joint work with Kenig, Sjostrand and Uhlmann, we show in dimension bigger than 3, that measuring the Dirichlet to Neumann map associated to a Schrodinger equation with magnetic and electric potentials on possibly very small subsets of the boundary suffices to determine the magnetic field and the electric potential.