

Departamento de Matemáticas, Facultad de Ciencia y Tecnología UPV/EHU
Bilbao, 17 de Abril de 2012

Stability of the Calderón problem for less regular conductivities.

Andoni García¹

In space dimension $n \geq 3$, let Ω be a bounded open subset of \mathbb{R}^n with Lipschitz boundary. Given $\gamma \in C^{1,\varepsilon}(\overline{\Omega})$ such that $\gamma(x) \geq \gamma_0 > 0$ for all $x \in \overline{\Omega}$, we prove stability for the coefficient γ of the boundary value problem associated to the conductivity equation

$$\begin{aligned}\nabla \cdot (\gamma \nabla u) &= 0 \quad \text{in } \Omega \\ u|_{\partial\Omega} &= f.\end{aligned}$$

This a joint work with P. Caro and J. M. Reyes from University of Helsinki.

¹Department of Mathematics and Statistics
University of Helsinki - Helsingin Yliopisto
00014 Helsinki, Finland
`andoni.garcia@helsinki.fi`