

SPEAKER:

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TITLE:

Nachman's Inverse Conductivity Result

ABSTRACT:

In his 1996 paper, Nachman addressed the inverse conductivity problem in two dimensions. If the electrical conductivity $\gamma \in W^{2,p}(R^2)$, and is bounded below, then it is uniquely determined by its corresponding Dirichlet-to-Neumann operator Λ_γ . The proof of this result is constructive, involving the scattering problem for the Schrodinger equation at zero energy. In this talk, we will give an overview of Nachman's approach.