

On the inverse conductivity problem

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The classical Calderón problem is the inverse problem of determining the electrical conductivity of the interior of a medium from voltage and current measurements on its surface. With applications in medical imaging and geophysics, its study has led many developments in the area of inverse problems since the eighties.

In this talk we will introduce some important questions about the Calderón problem and the main ingredients to answer them, focusing on the case of three or higher dimensions and the development concerning the regularity of the conductivity.