

Frankfurter Seminar

Kolloquium des Instituts für Mathematik

Wintersemester 2023/24

Frankfurter Seminar, 22. November 2023

Angkana Rüland (Universität Bonn)

On the fractional Calderón Problem

In this talk I introduce and discuss two prototypical nonlinear inverse problems, the Calderón problem and its nonlocal counterpart, the fractional Calderón problem. In these problems one seeks to recover information on an unknown conductivity or potential through indirect measurements of the generalized voltage-to-current map at the boundary/complement of a given domain.

I will particularly discuss the various novel features arising from nonlocality as well as a connection between the two problems.

This is based on joint work with G. Covi, T. Ghosh, M. Salo and G. Uhlmann.

Tee ab 16:15 Uhr

Robert-Mayer-Straße 10 | Raum 711

Ginkgo-Seminar 15:15 - 16:00 Uhr

Andrej Brojatsch Introduction to the Calderón Problem and fractional derivatives

Teilnahme nur für Studierende, Promovierende und Postdocs

Tee 16:15 - 16:45 Uhr

