

MATHEMATISCHES INSTITUT DER UNIVERSITÄT BAYREUTH

DER GESCHÄFTSFÜHRENDE VORSTAND

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28. Juni 2017

Einladung
zum
Mathematischen Kolloquium

Am Donnerstag, dem 6. Juli 2017, spricht

Herr Dr. Janosch Rieger,
School of Mathematical Sciences,
Monash University, Melbourne, Australia
Gast am Lehrstuhl Angewandte Mathematik
bei Herrn Prof. Dr. Lars Grüne

über das Thema

Recent advances in domain reconstruction from electrical impedance tomography data

Abstract

Electrical impedance tomography is an emerging budget-priced, non-invasive medical imaging technique that is very likely to complement computerised tomography in applications such as pulmonary function control and breast cancer screening in the future. The main difficulty associated with this technology is that the arising inverse problem is strongly ill-posed.

In this talk, I will discuss an alternative approach to domain reconstruction from electrical impedance tomography data, which is based on the concept of the convex source support introduced by Kusiak and Sylvester, as well as an appropriate numerical discretisation of the resulting problem.

Beginn: 16.30 Uhr (Kaffee/Tee ab 16.00 Uhr im Seminarraum 748)

Ort: Hörsaal H 19, Gebäude Naturwissenschaften II, Universitätsgelände

gez. L. Grüne