# Einladung zum

# Würzburger Mathematischen Kolloquium

Julius-Maximilians-Universität Würzburg • Fakultät für Mathematik und Informatik
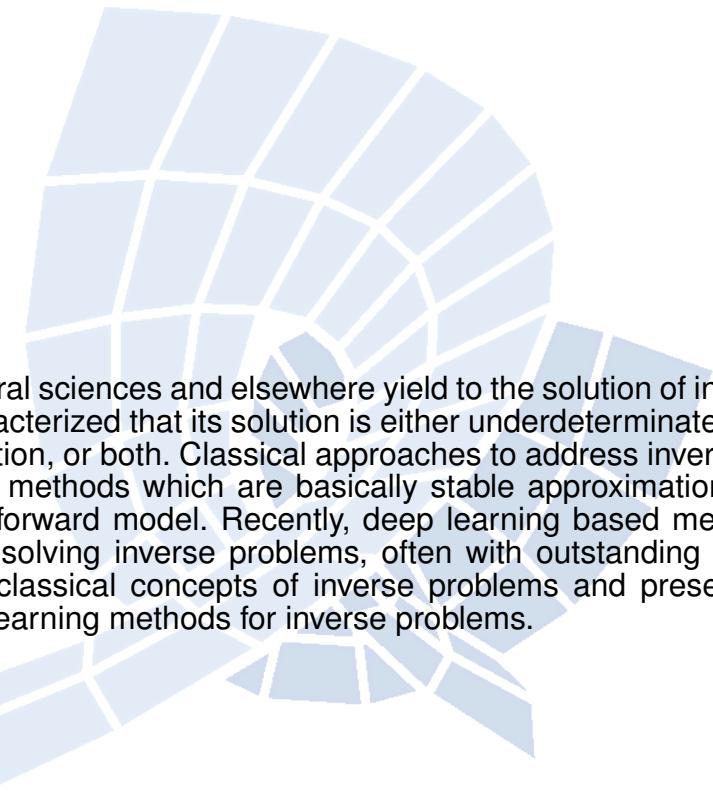
## Markus Haltmeier

Universität Innsbruck

## Deep Learning in Inverse Problems

Dienstag, 8. Jan. 2018 • 16:15 Uhr

Raum SE 40, Mathematik Ost, Emil-Fischer-Str. 40, Campus Hubland-Nord

**Inhaltsangabe:**

Many challenges in natural sciences and elsewhere yield to the solution of inverse problems. Such problems are characterized that its solution is either underdeterminated, sensitive with respect to data perturbation, or both. Classical approaches to address inverse problems are based on regularization methods which are basically stable approximations to the Moore Penrose inverse of the forward model. Recently, deep learning based methods appeared as a new paradigm for solving inverse problems, often with outstanding performance. In this talk, we will recall classical concepts of inverse problems and present some recent developments on deep learning methods for inverse problems.

www.mathematik.uni-wuerzburg.de/kolloquium/

Zu diesem Vortrag laden wir Sie herzlich ein.
Im Anschluss an den Vortrag stehen Tee und Kaffee im Foyer vor dem SE 40 bereit.

Die Dozentinnen und Dozenten der Mathematik