

Institut für Geophysik
Geophysikalisches Kolloquium
Sommersemester 2024
Montag, 10.06.2024

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**Multi-scale exploration of Earth's interior
with heterogeneous data sets**

In this talk, we will briefly describe our efforts to image Earth's interior, from sedimentary basins to Earth's outer core, based on 3D full-waveform modeling and heterogeneous datasets. In the first part, we will present the newly constructed travel time and adjoint tomographic Middle East models and the azimuthally anisotropic global adjoint model, GLAD-M50-AZI, to discuss the multi-scale tectonics and upper-mantle anisotropy. We will also discuss seismic hazard studies in earthquake-prone regions using ambient noise and fiber optic data and how to further improve the resolution of global tomographic models in the context of parameterization, the trade-off between seismic parameters and the assimilation of emerging data (MERMAIDs, DAS, etc.) in global full-waveform inversions.

Das Kolloquium findet um 16:00 Uhr im Seminarraum GEO 315, Corrensstr. 24, 48149 Münster statt. Alle an dem Thema Interessierten sind hierzu herzlich eingeladen.

Die Dozenten des Instituts für Geophysik