

Seismic tomography for non-seismologists – methods & potential applications to imaging mountain belts

FU-Berlin, GeoCampus Lankwitz, House C, Room C014

February 1-2, 2018 (Thursday + Friday)

Thursday, February 1st, 2018:

09:00-09:30 Coffee

09:30-09:45 Mark Handy (FU-Berlin) - *Introduction*

09:45-10:45 Eduard Kissling (ETH-Zürich) – *Overview of seismic imaging methods*

10:45-11:45 Andreas Fichtner (ETH-Zürich) – *Developments in full waveform inversion*

11:45-13:00 Lunch at Mensa, Group Picture

13:00-14:00 Trond Ryberg (GFZ-Potsdam) – *Bayesian approach in seismic tomography*

14:00-15:00 Heiner Igel (LMU-München) – *Numerical methods in tomography*

15:00-15:30 Coffee

15:30-16:15 Frederik Tilmann (GFZ) *Receiver functions*

16:15-17:00 Georg Rumpker (Frankfurt) *Seismic anisotropy & Shear-wave splitting*

17:30-18:15 Beer with the students at the GeoCafe

19:00 Dinner in Berlin-Steglitz

Friday, February 2nd, 2018:

09:00-10:00 Thomas Meier (Kiel) – *Surface-wave tomography*

10:00-10:40 Christoph Sens-Schönfelder (GFZ) *Ambient noise tomography – Fundamentals*

10:40-11:15 Emanuel Kästle (Paris) - *Ambient noise tomography – Applications* **11:15-**

11:45 Coffee

11:45-12:15 Christian Haberland (GFZ-Potsdam) *Local EQ Tomography*

12:30-13:00 Edi Kissling (ETHZ) *Targeting and interpreting major structure with seismological methods*

13:00-13:15 *Final discussion and open questions*

13:15-13:30 Mark Handy (FU-Berlin) - *Wrapup*