

3rd Deep Earth Mini Symposium

Münster Nov 28th 2022 in Geo315 (Corrensstr 24 48149 Münster)

Program

9:00-9:10	Christine Thomas, Carmen Sanchez-Valle	Welcome and Info
9:10-9:30	Andreas Stracke (WWU)	Machine Learning Looks Anew at Isotope Ratios in Oceanic Basalts
9:30-10:10	Ed Garnero (Arizona State Univ)	Imaging and interpreting LLSVPs: past, present, next steps
11:10-11:30	Morvarid Saki (WWU)	Structure of mantle transition zone and its connection to subduction in the Caribbean
10:30-11:00	Coffee	
11:00-11:40	Mathieu Bouffard (Nantes)	Internal waves in a stratified layer atop a convecting liquid core
11:40-12:20	Marthe Klöcking (GAU)	Exploiting volcanic trace element compositions to interrogate upper mantle dynamics
12:20-13:00	Laura Cobden (U. Utrecht)	Developments in interpreting seismic tomography: machine learning and spin transitions
13:00-14:00	Lunch	
14:00-14:30	Tuo Zhang & Christoph Sens-Schönfelder (GFZ)	How P- wave scattering in the mantle mimics the arrival of Pdiff and its coda at high frequencies
14:30-15:30	Isabel Papanagnou (LMU)	Geodynamic predictions of seismic structure and discontinuity topography of the mantle transition zone
15:00-15:30	Jonathan Wolf (Yale)	Inferring deep mantle dynamics from seismic anisotropy: New constraints and new directions
15:30-16:00	Coffee	
16:00-16:30	Sergey Lobanov (GFZ)	Precise thickness measurements in diamond anvil cells explain discrepant experimental values of Fe thermal conductivity.
16:30-17:00	Runa van Tent (U.Utrecht)	Lowermost-mantle density and CMB topography from recent normal-mode measurements
17:00-17:20	Paul Beguelin (WWU)	Ce–Nd–Hf isotopes show Hawaiian magma flux is controlled by depleted peridotite in the plume
17:20-17:50	Jeroen Ritsema (Ann Arbor)	The parallax of scatterers in the lower mantle.
17:50-18:10	Thomas Wiesehöfer (WWU)	An educational tool for geodynamics
from 18:10	Cheese and Wine poster session	

