

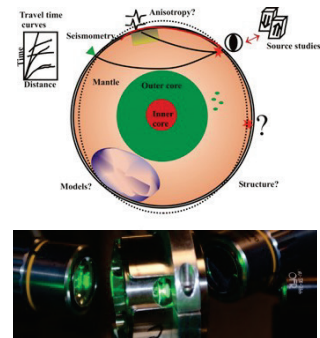
PhD short course: Seismology and Mineral Physics of Earth's Mantle

(University of Münster, 18.-20.07.16)

Organizers: Hauke Marquardt, Christine Thomas

Lecturers: Laura Cobden (Utrecht University), Christine Thomas (Universität Münster), Hauke Marquardt (Universität Bayreuth, BGI)

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Objective: The underlying idea of the PhD workshop is to bring together students from (experimental) mineralogy/mineral physics and seismology to define a common “language”, foster scientific dialogue and ultimately provide the basis for future collaborations. On the first day of the workshop, students from seismology/geophysics will be introduced to the field of high-pressure/high-temperature experiments and the measurement of physical properties that are of relevance to the interpretation of seismic observables. On the second day, students from the field of mineralogy will learn how to treat seismic data and construct seismic models. The third day will start with presentations of participating students with the particular goal of finding possibilities for collaborations. The student presentations will be followed by a discussion of how to construct seismic models from available mineral physics data, with an emphasis on current limitations and future perspectives. All lectures and practicals will be designed towards the goal of enabling future interactions among scientists from the two disciplines. A preliminary schedule is given below.

	Day 1	Day 2	Day 3
9-10	Introduction & Mineralogy of mantle	Seismology lectures	Student presentations
10-11	Mineralogy / Mineral physics lectures	Seismology lectures	Student presentations
11-12	Mineralogy / Mineral physics lectures	Seismology lectures	Student presentations
12-13	HP/HT techniques lecture	Seismology lectures	Student presentations
	LUNCH	LUNCH	LUNCH
14-15	Practical HP/HT techniques	Seismology practical	Construction of seismic model from mineral physics data (lecture)
15-16	Practical HP/HT techniques	Seismology practical	Construction of seismic model from mineral physics data (practical)
16-17	Practical HP/HT techniques	Seismology practical	Construction of seismic model from mineral physics data (practical)
17-18	Practical HP/HT techniques	Seismology practical	Construction of seismic model from mineral physics data (practical)
19-22		Short course dinner	