

# Hands-on Seminar: Experimental Optics and Atomic Physics

Prof. Martin Weitz, Christopher Grossert

Date: Mondays 8:00 – 10, 10:00 – 12, 13:15 - 15  
Meeting Place: IAP, Entrance Hall

Topics	Date
• Introduction	15.04.2013
• Introductory laser optics, chopper and photodiode	29.04.2013
• Gaussian optics, laser beam profiles, optical fibers	06.05.2013
• Optical resonators	13.05.2013
• Diode laser, atomic spectroscopy	27.05.2013
• Acousto-optical modulators	03.06.2013
• Beat-signal of modulated laser beams	10.06.2013
• Radiofrequencies, RC-Filter, rf-Mixer, ...	17.06.2013
• Light polarisation and birefringency	24.06.2013