

# Hands-on Seminar: Experimental Optics and Atomic Physics

Prof. Martin Weitz, Christopher Grossert

Date: Mondays 9 c.t.

Place: IAP, Room 410 (4th Floor)

Topics	Date
• Introduction	10.10.2011
• Introductory laser optics, chopper and photodiode	31.10.2011
• Gaussian optics, laser beam profiles, optical fibers	07.11.2011
• Optical resonators	14.11.2011
• Diode laser, atomic spectroscopy	21.11.2011
• Acousto-optical modulators	28.11.2011
• Beat-signal of modulated laser beams	05.12.2011
• Radiofrequencies, RC-filter, rf-mixer, ...	09.01.2012
• Light polarisation and birefringency	16.01.2012