



TRR 80 Seminar

Am Dienstag, den 5. Dezember um 16:00 Uhr

spricht

Prof. Dr. Martino Poggio

Department of Physics, University of Basel

über das Thema

Nanomechanics and Nanomagnetism

I will discuss recent experiments in our group aimed at determining the magnetization configuration and reversal processes in nanometer-scale magnets. First, I will discuss sensitive measurements of torque magnetometry and how they can be used to observe magnetization reversal and magnetic phase transitions in individual nanomagnets. I will then discuss the advantages of scaling down mechanical torque transducers from conventional ‘top-down’ cantilever sensors to state-of-the-art ‘bottom-up’ structures. In particular, I will show torque magnetometry experiments using nanowire (NW) structures. Finally, I will introduce our scanning probe experiments aimed at imaging magnetism on the nanometer-scale. In this context, I will discuss experiments using a scanning nanometer-scale superconducting quantum interference device (SQUID) to map the stray magnetic field produced by individual nanomagnets.

Gäste sind herzlich willkommen.

Der Vortrag findet im Seminarraum S-288, Institut für Physik, Universität Augsburg statt.

Gastgeber: Prof. Dr. István Kézsmárki
www.trr80.de