



Mini-Symposium

Spin-Density-Functional-Theory in modern magnetism

Density-Functional-Theory (DFT) is a well-established method for investigating electronic as well as magnetic properties from first principles. After a short introduction into DFT this symposium focuses on its applications to magnetic systems and transport properties. Here, basic concepts as well as modern DFT-based investigations are presented.

Monday, June 25th 2012, room P603

- 13.30 - 14.30: **Prof. Dr. Jürgen Kübler** (*TU Darmstadt*) - Spin-Density-Functional Theory
- 14.30 - 15.00: coffee break
- 15.00 - 16.00: **Prof. Dr. László Szunyogh** (*BME, Budapest*) - Magnetic structure of thin films and finite nanoparticles from first principles
- 16.00 - 16.30: coffee break
- 16.30 - 17.00: **Dr. Rocío Yanes Díaz** (*Uni Konstanz*) - Multi-scale study of IrMn₃/Co bilayers as a prototype for Exchange Bias systems
- 17.00 - 17.30: **Dr. Christian Wickles** (*Uni Konstanz*)- Transport in Spin-Orbit Coupled and Inhomogeneous Magnetic Systems

Organisation: Ulrike Ritzmann, Frank Schlickeiser (AG Nowak)
