Advanced Solid State Physics

Prof. Dr. S. A. Jafari and Prof. Dr. J. König

Language: English

Audience: Including, but not limited to MSc and PhD students and those from SFB1242

Start-End dates: April 24, 2017 - July 24, 2017

Time and place: Monday 16:15-17:45, MF 407


Topics:
- Fermi surface
- Second quantization
- Screening and plasmons
- Kondo problem
- Electron-phonon coupling
- Tight-binding approximation
- Hartree-Fock approximation
- Local moments in conductors
- Bosonization
- Superconductivity and BCS theory

Contact: S.A. Jafari, MC-331, jafari@physics.sharif.edu
J. König, MC-326, koenig@thp.uni-due.de

Module: Vertiefung Theoretische Physik (PHYSIK-M1-VT)