SFB 608

Einladung zum Sonderkolloquium

Ort: Universität zu Köln
II. Physikalisches Institut, Seminarraum 201

Zeit: Dienstag, 12.04.05, 17 Uhr c.t.

Sprecher: Dr. Jonathan Denlinger
Advanced Light Source
Lawrence Berkeley National Lab

Thema: Mapping the Fermi surface topology in f-electron systems

Abstract:
Angle-resolved photoemission of various cerium and uranium f-electron systems is presented. The primary focus will be on (i) mapping the three-dimensional Fermi surface (FS) of the prototype heavy fermion system $CeRu_2Si_2$ and its f_0 reference compound $LaRu_2Si_2$, (ii) comparison of quasi-2D FS sheets in the heavy fermion superconductor $CeCoIn_5$ and antiferromagnet $CeRhIn_5$, (iii) FS nesting in ferromagnetic superconductor UGe_2, and (iv) polarization-dependent f-states in $CeRu_2Si_2$ and URu_2Si_2.

Gez. Prof. Hao Tjeng