



EINLADUNG zum IFP-SEMINAR

Thema: **Low-energy optical properties of the Kondo semiconductor
CeRu₄Sn₆**

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Host: Silke Bühler-Paschen

Termin: **Dienstag, 20. Dezember 2011, 10:00 Uhr**

Ort: TU Wien, Institut für Festkörperphysik
Freihaus Seminarraum 138C, Turm B, 9. OG (gelbe Leitfarbe)
Wiedner Hauptstraße 8-10, 1040 Wien

Abstract:

In this study we investigate the electrodynamic response of single-crystalline CeRu₄Sn₆ along the a- and c-axes. Optical reflectivity measurements have been performed in the frequency range from 0.5 meV to 0.5 eV at various temperatures down to 6 K. We observe an anisotropic partial depletion of the spectral weight at low-temperature below 0.1 eV, indicating the development of a pseudogap. In addition we observe a strong mid-infrared peak at 115 meV for the c-axis and a shoulder at 300 meV for the a-axis, which we associate with electronic interband transitions.