

SFB 608

Einladung zum Kolloquium

Ort: Universität zu Köln
II. Physikalisches Institut
Seminarraum 201

Zeit: Mittwoch, den 26. Juni 2002, 15 Uhr c.t.

Sprecher: Dr. R. Werner
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Thema: Low Temperature physics of Sr_2RuO_4

The low temperature properties of Sr_2RuO_4 can be accounted for by properly taking into account the internal degrees of freedom of the system. The electrons are strongly correlated in the RuO_2 planes while the superconducting phase transition is driven by “umklapp scattering” between the planes. The in-plane magnetic correlations are determined via a non-perturbative approach. The orbital degeneracy and the magnetic moment are internal degrees of freedom of the order parameter that account for the thermodynamic properties in the superconducting phase. An introductory overview of the broad experimental background is given.

gez. Uhrig