SFB 608

Einladung zum Kolloquium

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

**Zeit:** Mittwoch, den 22. Januar 2003, 15 Uhr c.t.

**Sprecher:** Dr. Andrey Katanin

**Thema:** Renormalization-group studies of 2D Hubbard models

I discuss two- and many-patch renormalization-group approaches applied to 2D standard and extended Hubbard models. The phase diagram of the models as a function of interaction strength, electron concentration and other model parameters are obtained. The instabilities towards ferro- and antiferromagnetism, singlet- and triplet-superconducitvity, as well as to other types of order are analysed. The results are also compared with other theoretical approaches.

Gez. Dr. G. Uhrig