

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-superconductivity, as well as to other types of order are analysed. The results are also compared with other theoretical approaches.

Gez. Dr. G. Uhrig