Max-Planck-Institut für Physik komplexer Systeme
Dresden, Germany

International Workshop

Functional Renormalization in Interacting Quantum Many-Body Problems

• Workshop: March 10 - 21, 2003

Scientific coordinators:

Stefan Kehrein	**Andreas Mielke**	**Götz Silvester Uhrig**	**Franz Wegner**
Universität Augsburg	Universität Heidelberg	Universität zu Köln	Universität Heidelberg
Germany	Germany	Germany	Germany

Organisation: **Mandy Stiegler,** MPIPKS Dresden, Germany

The aim of this workshop is to provide a platform for talks and discussions on renormalization approaches for interacting quantum mechanical many-body systems.

In this context we will deal with various functional renormalization approaches to interacting fermion systems, e.g. the two-dimensional Hubbard model: Wilson's renormalization, flow equations and so on. Current developments and questions concerning strongly interacting electronic systems and non-equilibrium problems in interacting quantum systems etc. shall also be discussed. The main aspects of our workshop range from fundamental mathematical questions over refinements of the methods employed to calculations close to experiment. All these aspects will be considered together in order to promote progress in the understanding of strongly interacting many-particle systems.

Confirmed Speakers include:

V. Bach (Mainz)	C. Bourbonnais (Sherbrooke)	C. di Castro (Roma)
E. Fradkin (Urbana)	J. Fröhlich (ETH Zürich)	M. Imada (Tokyo)
A. Luther (Nordita)	V. Meden (Göttingen)	W. Metzner (MPI Stuttgart)
T.M. Rice (ETH Zürich)	M. Salmhofer (Leipzig)	H. Schoeller (Aachen)
K. Schönhammer (Göttingen)	R. Shankar (Yale)	C.M. Varma (Bell Labs/Lucent)

Applications are welcome and should be made by using the application form on the conference web page, however, the number of attendees is limited. The workshop's registration fee is €100. Costs for accommodation and meals will be covered by the Max Planck Institute. In exceptional cases, limited funding for travel expenses is available.

Deadline for applications is November 15, 2002.

For further information and application forms please contact:
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