



Advanced School and Workshop on
Developments and Prospects
in Quantum Impurity Physics

30 May - 10 June 2011



Scientific coordination

Carlos J. Bolech
University of Cincinnati
Cincinnati, USA

Stefan Kirchner
MPI PKS
Dresden, Germany

Peter Wölfle
KIT
Karlsruhe, Germany

Organisation

Claudia Pönisch

Systems that can be described in terms of a finite, strongly interacting quantum mechanical system coupled to a weakly interacting extended one, where the former has a discrete spectrum, while the latter is characterized by a continuum of energy levels occur in many different areas of physics. These systems are commonly called quantum impurity systems. Quite generally, the dichotomy between localized and extended states in these systems gives rise to a variety of possible behaviors and to highly non-trivial fixed points and rich universal physics.

This international workshop will bring together researchers from a broad range of areas to which quantum impurity physics is essential. It will cover the recent achievements and aims at generating a cross-fertilization among the various fields. The workshop is preceded by an Advanced School that will be open to PhD students and young postdocs. During the school week, leading experts will give introductory lectures to various theoretical and experimental aspects pertinent to quantum impurity physics. ICAM travel awards are available for eligible candidates. For further information, or to apply, please refer to <http://www.pks.mpg.de/~qimp11>

List of invited speakers

(* to be confirmed, • school lecturers)

Ian Affleck • (CA)
Natan Andrei (USA)
Ralf Bulla (D)
Kurt Busch (D)
Piers Coleman (USA)
Theo Costi (D)
Ferdinand Evers (D)
Lars Fritz (D)
Leonid Glazman • (USA)
Kristjan Haule (USA)

Atac Imamoglu • (CH)
Kevin Ingersent (USA)
Stefan Kehrein (D)
Andrei B. Kogan (USA)
Hans Kroha • (D)
Mireille Lavagna (F)
Karyn Le Hur (USA)
Renaud Leturcq • (F)
David Logan (UK)
Volker Meden (D)

Douglas Natelson • (USA)
Jens Paaske (DK)
Thomas Pruschke (D)
Avraham Schiller • (IL)
Qimiao Si • (USA)
Frank Steglich • (D)
Ilya Vekhter • (USA)
Matthias Vojta (D)
Dieter Vollhardt * (D)
Gergely Zaránd (HU)

Applications for participation and poster contributions are welcome and should be made by using the application form on the event's web page (please see URL below). The number of attendees is limited. The **registration fee** for the event is **120 €** and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute for the Physics of Complex Systems. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

Deadline for registration is 28 February 2011.

For further information please contact:

Visitors Program - Claudia Pönisch
Max-Planck-Institut für Physik komplexer Systeme,
Nöthnitzer Str. 38, D-01187 Dresden
Tel.: +49-351-871-2198 / Fax: +49-351-871-2199
qimp11@pks.mpg.de
<http://www.pks.mpg.de/~qimp11/>



we also offer
• **INDIVIDUAL FELLOWSHIPS •**
phd postdoc sabbatical
www.pks.mpg.de/visitors