

The XXX International Workshop on
Condensed Matter Theories

June 05 - 10, 2006

Scientific coordinators:

| | | |
|----------------------------|----------------------------|--------------------|
| Gerd Röpke | Heidi Reinholz | Peter Fulde |
| <i>Universität Rostock</i> | <i>Universität Rostock</i> | <i>MPIPKS</i> |
| <i>Germany</i> | <i>Germany</i> | <i>Germany</i> |

Organisation:

Marita Schneider
MPIPKS
Germany

The 30th International Workshop on Condensed Matter Theories will be held in Dresden, Germany, from June 5 to 10 of 2006, under the sponsorship of the Max-Planck-Institute for the Physics of Complex Systems, Dresden and the University of Rostock. The workshop is an annual scientific meeting since its start in São Paulo, Brazil in 1977.

This series of workshops is devoted to the development and promulgation of advanced methods for the description of many-body systems. The orientation and the physics context of the workshop have traditionally been interdisciplinary, where the emphasis is placed on common interests of theorists applying advanced many-particle methods in such diverse areas as solid-state, low-temperature, nuclear, particle, statistical, and biological physics as well as in quantum field theory, quantum information and the theory of complex systems. The primary aims of the Workshop are to encourage cross-fertilization between different approaches to various many-body systems, to promote continuing collaborative efforts involving groups of Workshop participants, and to foster communication and cooperation between scientists in developed and developing countries.

Adhering to this tradition, the XXX International Workshop on Condensed Matter Theories (CMT30) will focus on current developments and priorities in many-body theory, in particular the treatment of correlations in quantum systems. We will highlight advances in the broad fields of applications which incorporate high-temperature superconductivity, superfluidity and Bose-Einstein condensation, low-dimensional systems along with quantum dots, mesoscopic systems and clusters, molecular dynamics, phase transitions and light-matter interaction. The workshop will provide a forum at which specialists may be informed of the latest developments and modern techniques in various fields. The interchange of points of view between participants with distinct scientific interests is expected to give rise to a highly stimulating atmosphere. Such exchanges of ideas and techniques are expected to help clarify current key problems.

INTERNATIONAL ADVISORY COMMITTEE:

| | | | |
|-----------------------|------------------------|---------------------|-------------------|
| H. Akai (J) | G.S. Anagnostatos (GR) | R.F. Bishop (UK) | L. Blum (PR) |
| C.E. Campbell (USA) | M. Ciftan (USA) | J. Clark (USA) | J. Dabrowski (PL) |
| J. da Providencia (P) | M. P. Das (AUS) | M. de Llano (MEX) | D. Ernst (USA) |
| R. Guardiola (E) | E.V. Ludena (Y) | F. Bary Malik (USA) | J. Navarro (E) |
| P.V. Panat (IND) | A. Plastino (RA) | A. Proto (RA) | S. Rosati (I) |
| E. Suraud (F) | P. Vashishta (USA) | C.-W. Woo (CN) | |

Participations:

The style of the Workshop is by invitation only. About 50 - 60 invited talks will be delivered at plenary sessions. In addition, a poster session may be considered. Speakers are asked to present their research area for non-specialists. We particularly encourage the participation of young researchers. The invited lectures will be published as Volume 22 of the series Condensed Matter Theories.

Those interested in attending the meeting should fill out the electronical application form by **December 15, 2005** indicating a proposed topic or tentative title for their contribution. Qualified applicants will be eligible for consideration as invited participants of CMT30. Invitations for the speakers will be send out by mid January, 2006. A second announcement containing the tentative speakers will be prepared at the same time.



For further information please contact:
Visitors Program

Max-Planck-Institut für Physik komplexer Systeme,
Nöthnitzer Str. 38, D-01187 Dresden
Tel.: +49-351-871-2107 / Fax: +49-351-871-2199
cmt30@mpipks-dresden.mpg.de
<http://www.mpipks-dresden.mpg.de/~cmt30>

