



The Abdus Salam International Centre for Theoretical Physics



School on Modern Topics in Condensed Matter Physics

28 January - 8 February 2013

Singapore

The Abdus Salam International Centre for Theoretical Physics (ICTP), in collaboration with the Nanyang Technological University (NTU) and Graphene Research Center (GC) at the National University of Singapore (NUS), is jointly organizing a School on Modern Topics in Condensed Matter Physics to take place in Singapore from 28th January to 8th February 2013.



This school aims to introduce modern concepts and methods in condensed matter physics, with a focus towards the physics in low dimensions, covering areas such as

- Strong correlations and frustration in low dimensions
- Topological phases and topological insulators
- Interfaces, heterostructures and their new phases
- Two dimensional crystals: Graphene and others
- Competing and exotic orders in complex materials
- Techniques and advances in material science

from both experimental and theoretical points of view. The school is intended predominantly for young scientists (students and researchers). Limited funds are available for participants from Asia.

Participation

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the School. Priority will be given to graduate students, post-doctoral researchers, faculty and research scientists from developing countries in Asia.

As it will be conducted in English, participants should have an adequate working knowledge of that language. Although the main purpose of ICTP is to help researchers from developing countries, through a programme of training activities within a framework of international cooperation, students and post-doctoral scientists from developed countries are also welcome to attend.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. There is no registration fee.

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website

<http://agenda.ictp.it/smr.php?2504>

Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

You may address general requests for information to:

Ms. M. Poropat (smr. 2504)
the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11 - 34151 Trieste, Italy
Telephone: +39-040-2240540 - Telefax: +39-040-22407540
E-mail: smr2504@ictp.it
ICTP Home Page: <http://www.ictp.it>



co-sponsored by:

Centre for Quantum Technologies, NUS
Graphene Research Centre, NUS
Institute of Advanced Studies, NTU
Physics of Novel Electronics, NTU
Office of Naval Research Global

DIRECTORS:

A.H. Castro-Neto
(Graphene Research Centre, NUS, Singapore)

M.A. Cazalilla
(Graphene Research Centre, NUS, Singapore & CFM-EHU, Spanish National Research Council, CSIC)

L.C. Kwak
(Institute of Advanced Studies, NTU & Centre for Quantum Technologies, NUS, Singapore)

M. Müller
(ICTP, Trieste)

C. Panagopoulos
(Nanyang Technological Univ., Singapore)

K.K. Phua
(Institute of Advanced Studies, NTU, Singapore)

INVITED LECTURERS:

D. Belitz (University of Oregon, Eugene)
P. Canfield (Ames Laboratory)
J. Chakhalian (Univ. of Arkansas, Fayetteville)
A. Fert (Université Paris-Sud, Orsay)
M. Fogler (University of California San Diego)
P. Fulde (MPIPKS, Dresden)
M. Gabay (Université Paris-Sud, Orsay)
J. Heber (Nature Materials)
H.Y. Hwang (Stanford University)
P. Kim (Columbia University, New York)
J. Lesueur (ESPCI, Paris)
I. Martin (Los Alamos National Laboratory)
L.W. Molenkamp (University of Würzburg)
T.K. Ng (Hong Kong Univ. Science & Technol.)
W. Pickett (University of California, Davis)
S.C. Zhang (Stanford University)

DEADLINE
for requesting participation
28th October 2012