



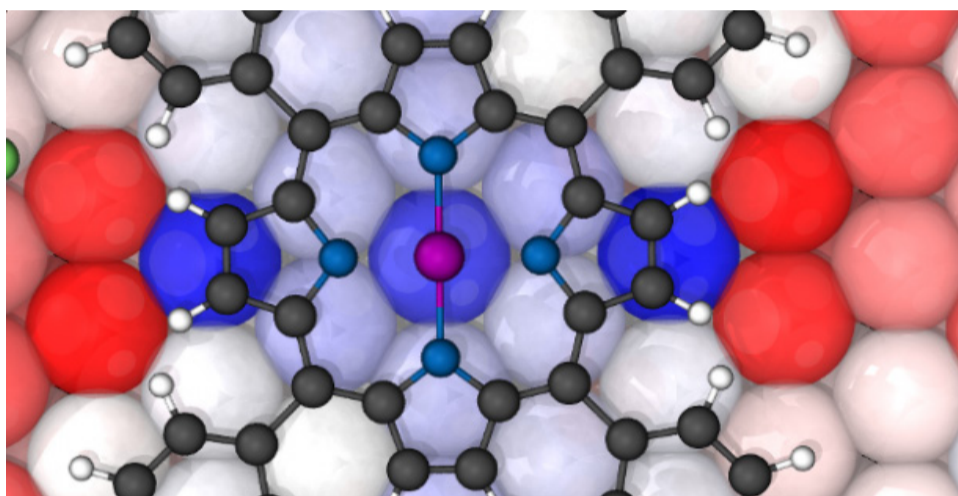
The Abdus Salam  
**International Centre  
 for Theoretical Physics**  
 www.ictp.it



## Joint ICTP-NSFC School and Advanced Workshop on Modern Electronic Structure Computations

8 - 12 July 2013  
 Shanghai, P.R. China

The Abdus Salam International Centre for Theoretical Physics (ICTP), in collaboration with the National Science Foundation of China and Fudan University, is jointly organizing a School and Advanced Workshop on Modern Electronic Structure Computations to be held in Shanghai from 8th to 12th July 2013.



This event will consist of a two-days advanced workshop on recent advances in electronic structure theory, followed by a three-days hands-on school where students learn how to use modern electronic structure software. The workshop is intended to give participants, particularly the students of the school, an overview of what density-functional theory and related approaches can be used for in practice.

Topics covered in the **advanced workshop** will include:

Surfaces/interfaces and related quantum phenomena, modern approaches to theoretical spectroscopy, theoretical materials science for energy conversion and storage.

The **hands-on school** will cover:

Wannier functions, electron transport, first principles molecular dynamics, rare events and transition path sampling, time-dependent density functional theory, and many-body perturbation theory (GW approximation).

### Participation

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the activities. Priority will be given to graduate students, post-doctoral researchers, faculty and research scientists from 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 activities. There is no registration fee.

### HOW TO APPLY FOR PARTICIPATION

Applications from the P.R. China should apply via the website

<http://www.cps.fudan.edu.cn>

Applicants from all other countries and regions should refer to the website

<http://agenda.ictp.it/smr.php?2509>

You may address general requests for information to:

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NSFC  
National Natural Science Foundation of China



FUDAN UNIVERSITY  
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Key Laboratory of Computational Physical Sciences  
2008

co-sponsored by:  
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(\*: to be confirmed)

**DEADLINE  
 for requesting participation  
 1st April 2013**