



The Abdus Salam
International Centre for Theoretical Physics


United Nations
Educational, Scientific
and Cultural Organization


International Atomic
Energy Agency

College Physics of Nano-Devices

10 - 21 July 2006

Miramare, Trieste, Italy

This Summer College will review the state of the art in the experiment and theory of quantum nano-systems and nano-structured materials. Lecture courses will encompass: (a) Luttinger liquid in quantum wires, Kondo effect, transport and dynamical properties of quantum dots, issues of phase coherence and decoherence in qubits; (b) new materials and systems, such as ultra-thin graphite films, nano-mechanical/electro-mechanical systems; (c) mesoscopic electromagnetics, optics of quantum dots and microcavity lasers, Bose-Einstein condensation of excitons; (d) coherent manipulation of cold atomic gases, atoms trapped in optical lattices. Lectures will be complemented with discussions, tutorials and poster sessions.

Scientists and students from all countries which are members of the UN, UNESCO or IAEA may attend the School. The main purpose of the Centre is to help researchers from developing countries, within a framework of international cooperation; however, scientists from developed countries are also welcome to attend.

Since ICTP activities are conducted in English, participants should have an adequate working knowledge of this language.

As a rule, travel and subsistence expenses of participants should be borne by their 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. There is also a limited I²CAM support for young researchers affiliated in USA. Any support is available only for those attending the entire activity. There is no registration fee.

The **Application Form** can be downloaded at: <http://agenda.ictp.it/smr.php?1760>

or requested from the activity Secretariat at: **E-mail:** smr1760@ictp.it

It should be completed and returned before **15 April 2006** to:

College on Physics of Nano-Devices
Secretariat: Ms. Rosa del Rio (smr 1760)
the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11,
34014 Trieste, Italy.
phone: +39-040-2240396

preferably by email (please send file attachments in Word or Acrobat format)

or by **Telefax:** +39-040-224163 (ref. smr1760 - Att. Ms. Rosa del Rio)

ICTP Home Page: <http://www.ictp.it/>



Co-sponsored by:

I²CAM
International Institute for Complex Adaptive Matter

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DEADLINE

for requesting participation

15 April 2006