



School and Workshop on NEW TRENDS IN QUANTUM DYNAMICS AND ENTANGLEMENT

14 - 25 February 2011
(Miramare, Trieste, Italy)

The Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy) and the Department of Physics of the University of Trieste are organizing a School and Workshop on "New Trends in Quantum Dynamics and Quantum Entanglement", to be held at the ICTP from **14 to 25 February 2011**.

THE SCHOOL

The purpose of the School is to provide students in Physics with the background material about quantum dynamics and entanglement theory at a graduate level. **The School will take place from 14 to 18 February 2011** and will cover the following topics:

- Quantum Coherence in Biological Systems
- Quantum Entanglement and Applications
- Memory Effects in Quantum Dynamics and Quantum Channels

Applicants should provide, together with the application form, a short C.V. and a letter of presentation by a senior scientist. Full board and partial reimbursement of travel expenses may be provided to a limited number students coming from, and working in, developing countries.

THE WORKSHOP

The School will be followed by a **Workshop, from 21 to 25 February 2011**, where experts in the above mentioned topics will present and discuss their latest results. The emphasis will be on the inter-relations of these innovative and fast growing fields of research, with the aim of fostering mutual interactions and cross-fertilizing exchanges. Applicants should provide a short C.V. and a recent list of publications.

Scientists and students from all countries that are members of the UN, UNESCO or IAEA may attend the activity. Although the main purpose of the Centre is to help researchers from developing countries through a programme of training activities within the framework of international cooperation, a limited number of students, post-doctoral scientists and researchers from developed countries are also welcome to attend. As the activity will be conducted in English, participants must have an adequate working knowledge of that language.

As a rule, travel and subsistence expenses of the participants are borne by their home institutions. 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 to those attending the entire period of the events. Every effort should be made by candidates to secure support for their fare (or at least half-fare). There is no registration fee to attend this activity.

The closing date for the receipt of requests for participation for both the School and Workshop is fixed for: 15 October 2010

HOW TO APPLY FOR PARTICIPATION

The **Application Form** can be accessed at the activities' websites as follows:

SCHOOL website <http://agenda.ictp.it/smr.php?2224> **e-mail:** <mailto:smr2224@ictp.it>
WORKSHOP website <http://agenda.ictp.it/smr.php?2295> **e-mail:** <mailto:smr2295@ictp.it>

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

Activity Secretariat:

the Abdus Salam International Centre for Theoretical Physics (smr. 2224 & 2295)
School & Workshop on New Trends in Quantum Dynamics and Quantum Entanglement
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<http://agenda.ictp.it/smr.php?2224> and <http://agenda.ictp.it/smr.php?2295>

Co-sponsored by:

UNIVERSITÀ
DEGLI STUDI DI TRIESTE

Dipartimento di Fisica

Consorzio per la Fisica

and

Institute for Quantum Optics
and Quantum Information (IQOQI)
Austrian Academy

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**DEADLINE for
submitting applications:
15 October 2010**