



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



The Abdus Salam International Centre for Theoretical Physics (ICTP), in collaboration with the Italian Institute for Nuclear Physics (INFN), will hold the

SUMMER SCHOOL on PARTICLE PHYSICS

10-21 June 2013

Miramare, Trieste, Italy

The goal of the school is to give a detailed overview of particle physics and cover the most important and perspective areas where significant progress has been achieved recently. In 2013, the main focus will be on the LHC results, their interpretation and implications for Physics Beyond the Standard model. Lectures will also cover progress in neutrino physics, dark matter searches and the study of cosmic radiation.

TOPICS:

- **Status of the Standard Model**
- **Higgs physics**
- **QCD and collider physics**
- **Quark-Gluon plasma**
- **Flavor physics**
- **Neutrino physics**
- **New physics without new energy scale**
- **Supersymmetry and the LHC**
- **Compositeness and Extra dimensions**
- **Particle physics and multi-messenger astronomy**
- **Dark Matter**
- **Cosmology and Particle Physics**

PARTICIPATION:

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the workshop. 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 to be paid.

The **Application Form** can be accessed at the activity website: <http://agenda.ictp.it/smr.php?2463>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

Summer School on Particle Physics
(smr 2463 - c/o Ms. Rosanna Sain - Activity Secretary)
the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11, 34151 Trieste, Italy.

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Activity Web page: <http://agenda.ictp.it/smr.php?2463>

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

December 2012

Organizing Committee:

Gino ISIDORI
(LNF, INFN)

Mikhail SHAPOSHNIKOV
(EPFL)

Alexei SMIRNOV
(ICTP)

Giovanni VILLADORO
(SLAC & ICTP)

Scientific Secretary:

Daniel HERNANDEZ
(ICTP)

DEADLINE

for requesting participation

15 March 2013