

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

# SUMMER SCHOOL on PARTICLE PHYSICS

**15 - 26 June 2015**

**Miramare, Trieste, Italy**

The goal of the school is to give a detailed overview of particle physics and cover the most important areas where significant progress has been achieved recently. This year the school will cover both the energy and the intensity frontiers, with lectures on the physics relevant for the next LHC run, future hadron colliders, direct and indirect probes of dark sectors and early universe physics.

## LECTURES:

<b>M. Peskin</b> (SLAC)	<b>HIGGS AND EWSB</b>
<b>Z. Ligeti</b> (LBL Berkeley)	<b>FLAVOUR</b>
<b>A. Smirnov</b> (MPI Heidelberg & ICTP)	<b>NEUTRINOS</b>
<b>M. Mangano</b> (CERN)	<b>QCD FOR FUTURE HADRON COLLIDERS</b>
<b>S. Sarkar</b> (Oxford U. & NBI Copenhagen)	<b>PHYSICS OF THE EARLY UNIVERSE</b>
<b>M. Luty</b> (UC Davis)	<b>SUPERSYMMETRY</b>
<b>A. Wulzer</b> (Padua U.)	<b>COMPOSITE HIGGS MODELS</b>
<b>K. Zurek</b> (LBL Berkeley)	<b>DARK MATTER</b>
<b>S. Rajendran</b> (UC Berkeley)	<b>AXIONS</b>
<b>W. Buchmüller</b> (DESY Hamburg)	<b>BSM COSMOLOGY</b>

## PARTICIPATION

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the School. As it will be conducted in English, participants should have an adequate working knowledge of that language. Although the main purpose of the Centre is to help research workers from developing countries, through a programme of training activities within a framework of international cooperation, a limited number of 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://indico.ictp.it/event/a14276>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

## ACTIVITY SECRETARIAT:

**Summer School on Particle Physics** (smr2727)  
the Abdus Salam International Centre for Theoretical Physics  
Strada Costiera 11, 34151 Trieste, Italy.

**Telephone:** +39 040 2240 363 - **Telefax:** +39 040 2240 7363 - **E-mail:** [smr2727@ictp.it](mailto:smr2727@ictp.it)

**Activity Web Page:** <http://indico.ictp.it/event/a14276>

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



## ORGANIZERS:

**A. IBARRA** (TUM - Munich)  
**Y. NOMURA** (UC Berkeley)  
**A. ROMANINO** (SISSA)  
**G. VILLADORO** (ICTP)

**DEADLINE**  
*for requesting participation*

**~~31 March 2015~~**

**EXTENDED**

to

**30 April 2015**

**ONLY for those  
NOT REQUESTING  
FINANCIAL SUPPORT**

