



The Abdus Salam  
International Centre for Theoretical Physics

  
United Nations  
Educational, Scientific  
and Cultural Organization

  
International Atomic  
Energy Agency

# *School on Physics at LHC: "Expecting LHC"*

**11 - 16 September 2006**

(Miramare - Trieste, Italy)

The aim of the School is to expose in a systematic and coherent way standard physics and physics beyond the Standard Model that can be studied at the LHC. The School will discuss the phenomenologically relevant features of the LHC machine and detectors. Discovery potential of the LHC experiments and possible implications of the results for fundamental theory will be considered in great detail. Various methods and techniques used in LHC related studies will be presented.

## TOPICS

- **LHC: machine and detectors**
- **Electroweak physics**
- **Higgs boson searches**
- **Flavour physics**
- **QCD at LHC**
- **Heavy ion collisions**
- **Supersymmetry**
- **Extra dimensions**
- **Other physics beyond the SM**

## PARTICIPATION

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 School. There is no registration fee to attend this activity.

The **Application Form** is obtainable from the ICTP WWW server: <http://agenda.ictp.it/smr.php?1773> (which will be constantly up-dated) or from the activity Secretariat ([smr1773@ictp.it](mailto:smr1773@ictp.it)). It should be completed, signed and returned before **15 May 2006 to:**

the Abdus Salam International Centre for Theoretical Physics  
**School on Physics at LHC: "Expecting LHC" (smr.1773)**  
c/o Ms. Marina de Comelli  
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**IN COLLABORATION WITH  
THE ITALIAN INSTITUTE FOR  
NUCLEAR PHYSICS (INFN)**

## ORGANIZERS

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## SCIENTIFIC SECRETARY

**Michele MALTONI**  
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**DEADLINE  
for requesting participation**

**15 MAY 2006**