



TOPICS:

- INTRODUCTION TO COSMOLOGY
- LENSING
- GRAVITATIONAL WAVES
- DARK ENERGY
- LARGE SCALE STRUCTURE
- DARK MATTER
- COSMIC MICROWAVE BACKGROUND
- ASTROPARTICLE PHYSICS
- GALAXY FORMATION
- INFLATION

The purpose of this School is to provide an introduction to the current state of research in cosmology and astroparticle physics. It is intended for beginning graduate students, as well as more senior non-expert researchers that are interested in these fields.

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 this 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, students and post-doctoral scientists from advanced 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 to be paid.

The **Application Form** can be accessed at the activity website: <http://agenda.ictp.it/smr.php?2156>. 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 in Cosmology (smr2156)
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: smr2156@ictp.it

Activity Web Page: <http://agenda.ictp.it/smr.php?2156>

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



IN COLLABORATION WITH



THE ITALIAN INSTITUTE FOR
NUCLEAR PHYSICS

ORGANIZERS:

P. Creminelli (ICTP)

U. Seljak (UC & LBNL Berkeley & Zürich U.)

M. Viel (INAF, OATS)

LECTURERS:

D. Baumann (IAS, Princeton)

G. Bertone (IAP Paris & Zürich U.)

H.J. Mo (UMass, Amherst)

J. Peacock (Univ. of Edinburgh)

F. Pretorius (Princeton University)

G. Raffelt (Max Planck, Munich)

A. Refregier (SAP, CEA Saclay)

A. Tolley (Perimeter Institute)

M. White (UC Berkeley)

M. Zaldarriaga (IAS, Princeton)

SCIENTIFIC SECRETARIES:

M. Musso (ICTP)

A. Paranjape (ICTP)

DEADLINE
for requesting participation

10 April 2010