



The Abdus Salam  
International Centre for Theoretical Physics

  
United Nations  
Educational, Scientific  
and Cultural Organization

  
International Atomic  
Energy Agency

**SUMMER SCHOOL in  
COSMOLOGY and  
ASTROPARTICLE PHYSICS  
10-21 July 2006**

and

**WORKSHOP on NONGAUSSIANITY  
in COSMOLOGY  
24-28 July 2006**

*Miramare, Trieste, Italy*

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, in collaboration with the International School for Advanced Studies (SISSA) and the Italian Institute for Nuclear Physics (INFN), will organize a **Summer School in Cosmology and Astroparticle Physics** from 10 to 21 July 2006, immediately followed by a **Workshop on Nongaussianity in Cosmology**, to take place from 24 to 28 July 2006.

The purpose of the 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. Each course will be 3-4 days long, with lectures during the day and a tutorial session at the end of the day. More specialized seminars will also be scheduled. The lecturers at the School are:

- \* **Alessandra Buonanno** (Maryland) - Gravitational waves
- \* **Sean Carroll** (Chicago) - Introduction to cosmology and dark energy
- \* **Andrea Ferrara** (SISSA) - First light in the universe
- \* **Ariel Goobar** (Stockholm) - Observational cosmology
- \* **Renata Kallosh** (Stanford) - String cosmology
- \* **Andrei Linde** (Stanford) - Inflation
- \* **Ue-Li Pen** (CITA) - Large scale structure in the universe
- \* **Antonio Riotto** (Padova) - Early universe
- \* **Bernard Sadoulet** (Berkeley) - Experimental astroparticle physics and dark matter searches
- \* **Max Tegmark** (MIT) - Cosmic microwave background
- \* **Alexander Vilenkin** (Tufts) - Topological defects

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. 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** is obtainable from the web page (which will be constantly updated) or from the activity Secretariat. It should be completed and returned before **1 April 2006** to:

**Summer School in Cosmology and Workshop on Nongaussianity in Cosmology**  
(smr 1761 - c/o Ms. Rosanna Sain)  
the Abdus Salam International Centre for Theoretical Physics  
Strada Costiera 11, 34014 Trieste, Italy.

or

**smr1761@ictp.it** (please save and send file attachments in RTF format)

**Summer School web page:** <http://agenda.ictp.trieste.it/smr.php?1761>  
**Workshop web page:** <http://www.ictp.trieste.it/~smr1761/>

**Telephone:** +39-040-2240-231 **Telefax:** +39-040-2240-304  
**E-mail:** [smr1761@ictp.it](mailto:smr1761@ictp.it)  
**ICTP Home Page:** <http://www.ictp.it/>



**DIRECTOR**

**Uros Seljak**  
(ICTP, Trieste)

**Local Organizers of the  
Workshop**

**Carlo Baccigalupi** (SISSA, Trieste)

**Nicola Bartolo** (ICTP, Trieste)

**Lotfi Boubekour** (ICTP, Trieste)

**Paolo Creminelli** (ICTP, Trieste)

**DEADLINE**  
**for requesting participation**

**1 April 2006**