



The Abdus Salam
International Centre for Theoretical Physics



QCD from Colliders to Super-High Energy Cosmic Rays

(QCD at Cosmic Energies – IV)

25 - 29 May 2009

(Miramare, Trieste, Italy)

The Abdus Salam International Centre for Theoretical Physics (ICTP) will organize a Workshop on QCD from Colliders to Super-High Energy Cosmic Rays from 25 - 29 May 2009. The aim of the Workshop, which follows a series of Workshops held in Erice in 2004, Skopelos 2005 and ICTP in 2007, is to discuss issues of common interest for the highest energy cosmic ray physics (in particular, near the GZK cutoff) and forward physics at LHC, in particular those related with a new regime of strong interactions expected to emerge at these energies.

The correlation between the direction of arrival of the highest energy cosmic rays and the active galactic centres, recently discovered by the Auger observatory, strengthens the need to understand patterns of interaction of protons and nuclei of ultrahigh energies with air. A progress in understanding the dynamics of nucleon-nucleus interactions is expected from the high luminosity run at RHIC that will be available by the end of 2008 and the first results of LHC might even be available by the time of the Workshop.

The Workshop will bring together experts in high energy QCD and cosmic ray physics, in view of expanding the mutually beneficial interface between experiments planning to explore forward physics at LHC and highest energy cosmic ray experiments.

The list of invited speakers and program will be available at a later date on the ICTP home page: <http://www.ictp.it/> by clicking on Scientific Calendar 2009 and under the activity name.

PARTICIPATION

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the Conference. 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, 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). Limited funds will be available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. There is no registration fee.

The **Application Form** can be accessed at the activity website <http://agenda.ictp/smr.php?2036> Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. It should be completed and returned before **1 February 2009**.

ACTIVITY SECRETARIAT:

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*** Local organizer**

DEADLINE

for requesting participation

1 February 2009