



The Abdus Salam
**International Centre
 for Theoretical Physics**
 www.ictp.it



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

7th International Workshop on Multiple Partonic Interactions at the LHC

23 - 27 November 2015

Miramare, Trieste, Italy

From the start of the experimental activity of the Large Hadron Collider, Multiple Partonic Interactions (MPI) are experiencing a growing popularity and are widely invoked to account for observations that cannot be explained otherwise. This includes associated hadron production (Underlying Event) in high energy hadronic collisions with jets, the rates for multiple heavy flavor production, the survival probability of large rapidity gaps in hard diffraction, etc. In particular Double Parton Interactions were observed directly and studied by a number of the FNAL and LHC experiments in different reaction channels.

At the LHC a new QCD regime has now been reached, where MPIs occur with high rates, in particular in central collisions, where the production of new particles is more likely to take place. Understanding MPIs is therefore crucial, both for their significant contribution to the background of various processes of interest for the search of new physics and because MPIs are an interesting topic of research by itself, allowing to probe high energy - high density QCD dynamics and, as a consequence of the geometrical characteristics of the interaction, to obtain unprecedented information on the correlated structure of the QCD bound states.

The aim of this workshop is to provide an updated view of MPI studies, both experimental and theoretical, and to foster contacts between theoretical and experimental communities active in the field.

TOPICS:

- Phenomenology of MPI processes and multiparton distributions
- Considerations for the description of MPI in QCD
- Measuring multiple partonic interactions
- Experimental results on inelastic hadronic collisions: underlying event, minimum bias, forward energy flow
- Monte Carlo development and tuning
- Connections with low x , diffraction, heavy ion physics and cosmic rays

PARTICIPATION

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the Workshop. As it will be conducted in English, participants should have an adequate working knowledge of that 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.

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at activity website: <http://indico.ictp.it/event/a14280>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. Please send all file attachments in Word or PDF format.

ACTIVITY SECRETARIAT:

7th International Workshop on Multiple Partonic Interactions at the LHC (smr2732)

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: smr2732@ictp.it

Activity Web Page: <http://indico.ictp.it/event/a14280>

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



ORGANIZERS:

H. Jung (DESY)

M. Strikman (Penn State U.)

D. Treleani (U. of Trieste, INFN)

INTERNATIONAL ADVISORY BOARD:

P. Bartalini (China Central Normal U.)

J. Butterworth (UC London)

M. Diehl (DESY)

L. Fanò (U. of Perugia, INFN)

R. Field (U. of Florida)

H. Jung (DESY, U. of Antwerp)

J. Katzy (DESY)

F. Krauss (IPPP Durham)

K. Kutak (IFJ PAN Kraków)

A. Moraes (CBPF Brazil)

A. Morsch (CERN)

G. Pancheri (INFN Frascati Nat. Lab.)

M. Schmelling (MPIK Heidelberg)

T. Sjöstrand (Lund U.)

P. Skands (CERN, Monash U.)

M. Strikman (Pennsylvania State U.)

A. Szczurek (IFJ PAN Kraków)

D. Treleani (U. of Trieste, INFN)

P. van Mechelen (U. of Antwerp)

N. van Remortel (U. of Antwerp)

DEADLINE

for requesting participation

~~15 September 2015~~

extended to

15 Ottobre 2015

only for those NOT requesting funding

