

Advanced Workshop on Physics of Atmospheric Neutrinos PANE 2018

28 May – 1 June 2018
Trieste, Italy



Further information:

<http://indico.ictp.it/event/8312/smr3207@ictp.it>

The goal of the workshop is to further explore physics potential of atmospheric neutrinos and support the physics case of new experiments. We plan to bring together leading experts in both theory and experiment as well as young researchers to assess the state-of-the-art knowledge in this field and to foster further theoretical, phenomenological, and experimental studies in atmospheric neutrino physics.

The programme of the workshop will include invited talks and shorter presentations selected from applications. Ample time will be given for discussion.

Topics:

- Results from atmospheric neutrino experiments
- Analysis of the data and treatment of systematics
- Cosmic ray fluxes at all energies
- Neutrino-nucleon and neutrino-nucleus interactions
- Computation of atmospheric neutrino fluxes
- Prompt atmospheric neutrinos
- Oscillations and absorption of neutrinos in the Earth
- Neutrino tomography of the Earth
- Determination of mixing angles, mass hierarchy, and CP-phase
- Searches for sterile neutrinos
- Searches for non-standard neutrino interactions
- Tests of fundamental symmetries
- Future experiments with atmospheric neutrinos
- Solar atmospheric neutrinos
- Atmospheric neutrinos as a background for diffuse supernova neutrinos, proton decay, dark matter searches
- Atmospheric neutrinos and cosmic neutrinos
- Synergy/Complementarity among atmospheric and LBL experiments

Directors:

S.K. AGARWALLA, Institute of Physics, Bhubaneswar
B. DEV, Washington University
A. PALAZZO, University of Bari & INFN
A. SMIRNOV, MPIK Heidelberg & ICTP

Local Organizer:

A. DABHOLKAR, ICTP

Scientific Advisory Committee:

J.F. BEACOM, Ohio State University
P.A. COYLE, CPPM, Marseille
A.S. DIGHE, TIFR, Mumbai
T.K. GAISSER, University of Delaware
F.L. HALZEN, University of Wisconsin-Madison
T. KAJITA, ICRR, Tokyo University
E.T. KEARNS, Boston University
E. LISI, INFN, Bari
J.G. LEARNED, University of Hawai'i
N.K. MONDAL, SINP, Kolkata
M. MALTONI, IFT, Madrid
O.L.G. PERES, Campinas State University
I. SARCEVIC, University of Arizona
W. WINTER, DESY, Zeuthen

How to apply:

Online application:
<http://indico.ictp.it/event/8312/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.



The Abdus Salam
International Centre
for Theoretical Physics
www.ictp.it
Trieste, Italy

