Advanced Workshop on Physics of Atmospheric Neutrinos PANE 2018

Dates: 28th May to 1st June 2018

Venue: ICTP, Trieste, Italy

Just before the Neutrino 2018 Conference at Heidelberg (June 4-9, 2018)
An Announcement

S. K. Agarwalla, NuFact 2017, Uppsala, Sweden, 30th September, 2017


Year 2018

30 years from publication of atmospheric neutrino anomaly

20th anniversary of discovery of atmospheric neutrino oscillation

Important year for ORCA
Various Committees

Organizing Committee

1) Sanjib Kumar Agarwalla
2) Bhupal Dev
3) Antonio Palazzo
4) Alexei Smirnov

Local Organizer

1) Atish Dabholkar

Scientific Advisory Committee

1) John Beacom
2) Paschal Coyle
3) Amol Dighe
4) Thomas K. Gaisser
5) Francis Halzen
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9) John G. Learned
10) Naba Kumar Mondal
11) Michele Maltoni
12) Orlando Peres
13) Ina Sarcevic
14) Walter Winter

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List of Topics

- Results from atmospheric neutrino experiments
- Analysis of the data & treatment of systematic uncertainties
- Cosmic ray fluxes at all energies
- Computation of atmospheric neutrino fluxes
- Neutrino-nucleon and neutrino-nucleus interactions
- 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 neutrino, proton decay, dark matter searches
- Atmospheric neutrinos and cosmic neutrinos
- Synergy/Complementarity among atmospheric and LBL experiments

Hope to see you in Trieste next year

S. K. Agarwalla, NuFact 2017, Uppsala, Sweden, 30th September, 2017