

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

Advanced Workshop on Physics Reach of Atmospheric Neutrinos - PANE 2018 | (smr 3207) (28 May 2018 - 1 June 2018)

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Secretariat

✉ smr3207@ictp.it

Advanced Workshop on Physics Reach of Atmospheric Neutrinos - PANE 2018 | (smr 3207)

🕒 Starts 28 May 2018
Ends 1 Jun 2018
Central European Time

📍 ICTP
Kastler Lecture Hall (AGH)
Strada Costiera, 11
I - 34151 Trieste (Italy)

☰ Organizer(s)

Sanjib Kumar Agarwalla (Institute of Physics), Bhupal Dev (Washington University), Antonio Palazzo (INFN Bari), Alexei Smirnov (MPIK Heidelberg), Local Organiser: Atish Dabholkar
Cosponsor(s) the Italian Institute for Nuclear Physics (INFN)
Secretary Nadia van Buuren

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Co-sponsors



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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**

Secretary

- 1) Nadia van Buuren**

Scientific Advisory Committee

- 1) John Beacom**
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- 3) Amol Dighe**
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- 9) John G. Learned**
- 10) Naba Kumar Mondal**
- 11) Michele Maltoni**
- 12) Orlando Peres**
- 13) Ina Sarcevic**
- 14) Walter Winter**

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