

Session Program

7-11 Aug 2017



TeV Particle Astrophysics 2017 (TeVPA 2017)

Neutrinos

Columbus, Ohio, USA

Hosted by the Center for Cosmology and AstroParticle Physics (CCAPP), The Ohio State University

Sunday 6 August

14:00

Neutrinos

Session | **Location:** The Athenaeum, Athenian Room | **Convener:** Carsten Rott

14:00–14:15 **Observing supernova neutrinos to late times**

Speaker
Shirley Li

14:15–14:30 **Neutrino flavour conversions near the supernova core**

Speaker
Francesco Capozzi

14:30–14:45 **Neutrino astronomy: Measuring the size of the Sun's core**

Speaker
Dr Jonathan Davis

14:45–15:00 **Muon-induced spallation backgrounds in DUNE**

Speaker
Guanying Zhu

15:00–15:15 **Showringing Muons in Super Kamiokande**

Speaker
Mr Scott Locke

15:15–15:30 **Astrophysics with the NOvA neutrino experiment**

Speaker
Dr Matthew Strait

15:30

Monday 7 August

14:00

Neutrinos

Session | **Location:** The Athenaeum, Athenian Room | **Convener:** Markus Ahlers

14:00–14:30 **Prompt neutrinos from heavy flavors**

Speaker

Mary Hall Reno

14:30–14:45 **New Measurement of Atmospheric Neutrino Oscillations with IceCube**

Speaker

Tyce DeYoung

14:45–15:00

Solar Atmospheric Neutrinos: A New Neutrino Floor for Dark Matter Searches

Speaker

Kenny Chun Yu Ng

15:00–15:15 **Search for Solar Atmospheric Neutrinos with IceCube**

Speaker

Carsten Rott

15:15–15:30 **High energy neutrinos from the Sun**

Speaker

Carlos Arguelles

15:30

16:00

Neutrinos

Session | **Location:** The Athenaeum, Athenian Room | **Convener:** Markus Ahlers

16:00–16:15

Measurement of neutrino events above 1 TeV with contained vertices in IceCube

Speaker

Nancy Wandkowsky

16:15–16:30

High Energy Astrophysical Neutrino Flux Measurement Using Neutrino-induced Cascades Observed in 4 Years of IceCube Data

Speaker

Mr Hans Niederhausen

16:30–16:45

Searches for astrophysical sources of neutrinos using cascade events in IceCube

Speaker

Mike Richman

16:45–17:00 **A new search for multi-flavour PeV neutrinos with IceCube**

Speaker

Lu Lu

17:00-17:15

Improving the angular resolution in IceCube cascade reconstruction

Speaker

Tianlu Yuan

17:15-17:30

A new IceCube starting track event selection and realtime stream

Speaker

Sarah Mancina

17:30-17:45

IceCube Search for Galactic Neutrino Sources using the HAWC 2HWC Catalog

Speaker

Joshua Wood

17:45-18:00

Free

18:00

Wednesday 9 August

14:00

Neutrinos

Session | **Location:** The Athenaeum, Athenian Room | **Convener:** Sergio Palomares-Ruiz

14:00-14:15

High-energy neutrino interactions: first cross section measurements at TeV and above

Speaker

Mauricio Bustamante

14:15-14:30

New physics searches with the TeV scale neutrinos

Speaker

Carlos Arguelles

14:30-14:45

Imaging Galactic Dark Matter with IceCube High-Energy Cosmic Neutrinos

Speaker

Ali Kheirandish

14:45-15:00

Searching for Planck Scale Physics with High Energy Neutrinos

Speaker

Floyd Stecker

15:00-15:15

Constraining the Flavor Structure of Lorentz Violation Hamiltonian with the Measurement of Astrophysical Neutrino Flavor Compositions

Speaker

Mr Wei-Hao Lai

15:15-15:30

Hidden neutrino interactions with dark energy: Effects on oscillation probabilities and tests with high-energy neutrinos

Speaker

Ms Niki Klop

15:30

16:00

Neutrinos

Session | **Location:** The Athenaeum, Athenian Room | **Convener:** Ke Fang

16:00-16:15

Interpretations of Astrophysics Neutrino Data

Speaker

Thomas Weiler

16:15-16:30

Multi-PeV Signals from a New Astrophysical Neutrino Flux Beyond the Glashow Resonance

Speaker

Ranjan Laha

16:30-16:45 **How bright can the brightest neutrino source be?**

Speaker

Dr Shin'ichiro Ando

16:45-17:00 **High-Energy Neutrinos from Supernovae**

Speaker

Prof. Kohta Murase

17:00-17:15 **Diffuse and point-source neutrino emission from Type II supernovae**

Speaker

Dr Maria Petropoulou

17:15-17:30

Difficulties of Star-forming Galaxies as the Source of IceCube Neutrinos

Speaker

Mr Takahiro Sudoh

17:30-17:45 **The Galactic Contribution to IceCube's Astrophysical Neutrino Flux**

Speaker

Dr Peter Denton

17:45-18:00 **TBD**

18:00

Thursday 10 August

14:00

Neutrinos

Session | **Location:** The Athenaeum, Athenian Room | **Convener:** Amy Connolly

14:00-14:30

Deep Sea Neutrino Telescopes: Latest Results from ANTARES and Perspectives for KM3NeT

Speaker

Dr Daan van Eijk

14:30-14:45

Status of IceCube-Gen2

Speaker

Tianlu Yuan

14:45-15:00

The ANITA Experiment After Four Flights

Speaker

Cosmin Deaconu

15:00-15:15

Low-power radio frequency amplification module with dynamic tunable notch filters for the Antarctic Impulsive Transient Antenna (ANITA)

Speaker

Oindree Banerjee

15:15-15:30

The Fourth Flight of the ANtarctic Impulsive Transient Antenna (ANITA)

Speaker

Andrew Ludwig

15:30

16:00

Neutrinos

Session | **Location:** The Athenaeum, Athenian Room | **Convener:** Carl Pfendner

16:00-16:15

The Askaryan Radio Array: Current Status and Future Plans

Speaker

Brian Clark

16:15-16:45

Towards Space Probes of Astrophysical and Cosmogenic Neutrinos

Speaker

Prof. Angela V. Olinto

16:45-17:00

Progress in In Situ UHE Neutrino Detectors: Joint Studies on Simulation and Ice

Speaker

Carl Pfendner

17:00-17:15

The ARIANNA Neutrino Detector

Speaker

Mr Christopher Persichilli

17:15-17:30

GRAND - the Giant Radio Array for Neutrino Detection

Speaker

Anne Zilles

17:30-17:45

Trinity: An experiment to detect cosmogenic neutrinos with the Earth skimming technique

Speaker

A. Nepomuk Otte

17:45-18:00

Radio Detection of Neutrino-Induced Tau Lepton Air Showers at Altitude

Speaker

Prof. Stephanie Wissel

18:00