

## Session Program

7-11 Aug 2017



## TeV Particle Astrophysics 2017 (TeVPA 2017)

### *Particle physics*

Columbus, Ohio, USA

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

# Monday 7 August

16:00

## Particle physics

**Session** | **Location:** The Athenaeum, Spartan Room | **Convener:** Nicole Bell

**16:00-16:15** **New Direct Detection Signals from Dark Matter Bound States**

**Speaker**  
Yue Zhang

**16:15-16:30** **Capture and Decay of Electroweak WIMPonium**

**Speaker**  
Patrick Fitzpatrick

**16:30-16:45** **The LHC Dark Matter Working Group**

**Speaker**  
Antonio Boveia

**16:45-17:00** **Search for long-lived particles at CMS**

**Speaker**  
Brian Francis

**17:00-17:15** **Search for low mass dijet resonances at CMS**

**Speaker**  
Javier Mauricio Duarte

**17:15-17:30** **Rare, Exotic, and Invisible Higgs Decays at CMS**

**Speaker**  
Ben Kreis

**17:30-17:45** **Global Fits of the MSSM with GAMBIT**

**Speaker**  
Jonathan Cornell

**17:45-18:00** **Collider and Indirect Signatures of Non-Minimal Dark Matter sectors**

**Speaker**  
Linda Carpenter

18:00

# Wednesday 9 August

16:00

## Particle physics

**Session** | **Location:** The Athenaeum, Spartan Room | **Convener:** Prof. Pavel Fileviez Perez

**16:00-16:15** **Testable Baryogenesis and Leptonic CP Violation in Seesaw Models**

**Speaker**

Dr Jordi Salvado

**16:15-16:30**

**Leptogenesis from a First-Order Lepton-Number Breaking Phase Transition**

**Speaker**

Andrew Long

**16:30-16:45**

**The MATHUSLA detector: exploring the Lifetime Frontier and Cosmic Ray Physics**

**Speaker**

David Curtin

**16:45-17:00**

**A Radiative Neutrino Mass Model with SIMP Dark Matter**

**Speaker**

Dr Takashi Toma

**17:00-17:15**

**Searching for Sterile Neutrinos at J-PARC with JSNS<sup>2</sup>**

**Speaker**

Johnathon Jordan

**17:15-17:30**

**Probing Fuzzy Dark Matter in Neutrino Experiments**

**Speaker**

Mr Vedran Brdar

**17:30-17:45**

**Understanding neutron yield from neutrino interactions with ANNIE**

**Speakers**

Dr Emrah Tiras, Prof. Matthew Wetstein

**17:45-18:00**

**Deep Learning and MicroBooNE to Investigate the MiniBooNE Excess**

**Speaker**

Jarrett Moon

18:00

# Thursday 10 August

14:00

## Particle physics

**Session** | **Location:** The Athenaeum, Spartan Room | **Convener:** Hai-Bo Yu

**14:00-14:15** **The milliQan Experiment**

**Speaker**  
Chris Hill

**14:15-14:30** **Strongly Interacting Dark Matter at Fixed-Target Experiments**

**Speaker**  
Asher Berlin

**14:30-14:45**

**$\nu$  Hopes for New Physics: Probing Weakly Coupled States at Neutrino Detectors**

**Speaker**  
Yu-Dai Tsai

**14:45-15:00** **GPS Timing Synchronization: Characterization and Spatial Correlation**

**Speaker**  
Mr Rob Halliday

**15:00-15:15** **Measuring gravitational effects on antimatter in space**

**Speaker**  
Prof. Giovanni Maria Piacentino

**15:15-15:30** **Free**

15:30

16:00

## Particle physics

**Session** | **Location:** The Athenaeum, Spartan Room | **Convener:** Asher Berlin

**16:00-16:15** **Light scalar at the high energy and intensity frontiers**

**Speaker**  
Dr Yongchao Zhang

**16:15-16:45**

**Overview of dark matter & exotics searches and prospects at the ATLAS experiment**

**Speaker**  
Wendy Taylor

**16:45-17:00** **Searches for dark matter beyond mono-jets at the ATLAS experiment**

**Speaker**  
Rui Wang

**17:00-17:15**

**Searches for supersymmetric dark matter candidates and long-lived particles with the ATLAS experiment**

**Speaker**  
Edoardo Maria Farina

17:15-17:45

**Searches for BSM Higgs bosons at ATLAS, including rare and invisible decays**

**Speaker**  
Gustavo Otero Y Garzon

17:45-18:00 **Free**

18:00