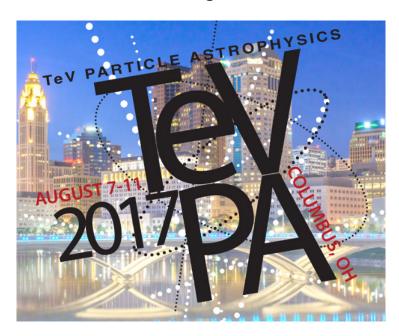
Session Program

7-11 Aug 2017



TeV Particle Astrophysics 2017 (TeVPA 2017) Dark matter

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

Sunday 6 August

14:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: Lina Necib

14:00-14:15 Diverse Galactic Rotation Curves and Self-Interacting Dark Matter

Speaker

Hai-Bo Yu

14:15-14:30

Can Self-interacting Dark Matter Solve the 'Diversity Problem' in Galactic Rotation Curves?

Speaker

Anna Kwa

14:30-14:45

Constraining Self-Interacting Dark Matter through Equal Mass Galaxy Cluster Mergers

Speaker

Stacy Kim

14:45-15:00 SIMPs with Vector Mediators

Speaker

Alexander Natale

15:00-15:15 Enabling Forbidden Dark Matter

Speaker

Hongwan Liu

15:15-15:30 Chiral Effective Theory of Dark Matter Direct Detection

Speaker

Joachim Brod

15:30

16:00

Dark matter

Session | Location: The Athenaeum, Athenian Room | Convener: dan hooper

16:00-16:15 Flavoured Dark Matter in Dark Minimal Flavour Violation

Speaker

Simon Kast

16:15-16:30 Enhancing Dark Matter Annihilation Rates with Dark Bremsstrahlung

Speaker

Nicole Bell

16:30-16:45 Dark Forces in the Sky: Signals from Z' and the Dark Higgs

Speaker

Nicole Bell

16:45-17:00 Dark Matter Models for the Galactic Center Excess

Speaker

Miguel Escudero

17:00-17:15

Sharp spectral features from light dark matter decay via gravity portals

Speaker

Sebastian Ingenhütt

17:15-17:30

Cooling sterile neutrino dark matter

Speaker

Dr Stefan Vogl

17:30-17:45

Phase Method for the evaluation of Sommerfeld Enhancement

Speaker

Dr Hiren Patel

17:45-18:00

Au Genesis From Cogenesis: Heavy Asymmetric Dark Matter Makes Gold

Speaker

Joseph Andrew Bramante

18:00

16:00 Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: C Eric Dahl

16:00-16:15

Measurement of low energy ionization signals from Compton scattering in a CCD dark matter detector

Speaker

Karthik Ramanathan

16:15-16:30 The LDMX Experiment

Speaker

Joshua Hiltbrand

16:30-16:45 The DAMIC experiment at SNOLAB

Speaker

Ryan Thomas

16:45-17:00

Recent Results and Current Status of SuperCDMS

Speaker

Dr Tsuguo Aramaki

17:00-17:15

MiniBooNE Dark Matter Search

Speaker

Ranjan Dharmapalan

17:15-17:30

Scintillating Bubble Chamber for Dark Matter and CEvNS Detection

Speaker

Jianjie Zhang

17:30-17:45 Recent results from the MAJORANA DEMONSTRATOR

	Speaker Dr Jordan Myslik		
00	17:45-18:00 Free		

Monday 7 August

14:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: Francesca Calore

14:00-14:15 Testing Cold Dark Matter with Strong Gravitational Lensing of AGN

Speaker

Anna Nierenberg

14:15-14:30 Searching for dark disks using Gaia

Speaker

KATELIN SCHUTZ

14:30-14:45

Dwarf Galaxy Population of a Nearby Star-Forming Galaxy and Implications for **Dark Matter**

Speaker

Alexandra Davis

14:45-15:00

Searching for ultra-faint galaxies in three years of data from the Dark Energy Survey

Speaker

Keith Bechtol

15:00-15:15

Black Mergers, Quiet Kilonovae, and r-Process Afterglow Donuts From Dark Matter

Speaker

Yu-Dai Tsai

15:15-15:30

Dark Fires in the Sky: Model-Independent Dark Matter Detection via Kinetic **Heating of Neutron Stars**

Speaker

Nirmal Raj

15:30 16:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: C Eric Dahl

16:00-16:15 LUX, and the Combatting of the WIMP Lamppost Effect

Speaker

Prof. Matthew Szydagis

16:15-16:30 The Next-Generation Dark Matter Project, LUX-ZEPLIN

Speaker

Prof. Matthew Szydagis

16:30-16:45 First result of XENON1T

Speaker Dr Lin Qing Dark matter search results from the PandaX-II experiment 16:45-17:00 Speaker Prof. Yong Yang 17:00-17:15 Direct dark matter search with the CRESST-III experiment Speaker Andrea Münster Dark matter searches with the PICO bubble chambers 17:15-17:45 Speaker Scott Fallows 17:45-18:00 Search for hidden-photon Dark Matter with FUNK Speaker Ralph Richard Engel

Tuesday 8 August

14:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: Kerstin Perez

14:00-14:15

Improving the search for extragalactic dark matter using N-body simulations

Speaker

Nicholas Rodd

14:15-14:30 A search for dark matter annihilation in nearby galaxy groups

Speaker

Siddharth Mishra Sharma

14:30-14:45

Searching for Dark Matter Annihilation in Milky Way Satellite Galaxies

Speakers

Alex Drlica-Wagner, Keith Bechtol, Andrea Albert

14:45-15:00 Sommerfeld-Enhanced J-Factors For Dwarf Spheroidal Galaxies

Speaker

Kimberly Boddy

15:00-15:15

Investigating what the Milky Way's dwarfs have to tell us about the Galactic **Center extended excess**

Speaker

Ryan Keeley

15:15-15:30

Searching for dark matter annihilation in Galactic substructure with photon statistics

Speaker

Laura Chang

15:30 16:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: Benjamin Safdi

16:00-16:15 LD2DM scenario as an explanation of the AMS-02 positron excess

Speaker

Jatan Buch

16:15-16:30 Zero-Range Effective Field Theory for Resonant Wino Dark Matter

Speaker

Evan Johnson

16:30-16:45 Thermal Dark Matter Below an MeV

Speaker

Asher Berlin



16:45-17:00 Indirect Detection of Neutrino Portal Dark Matter

Speaker

Barmak Shams Es Haghi

Wednesday 9 August

14:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: Francesca Calore

14:00-14:15

Empirical Determination of Dark Matter Velocity Distribution Using Metal Poor

Speaker

Lina Necib

14:15-14:30

On the applicability of Eddington's inversion methods to direct dark matter searches

Speaker

Martin Stref

14:30-14:45

Astrophysical distribution of dark matter and direct detection implications

Speaker

Nassim Bozorgnia

14:45-15:00

Reverse Direct Detection: Cosmic Ray Tests of Light Dark Matter Elastic Scattering

Speaker

Mr Christopher Cappiello

15:00-15:15

Determinations of Properties of Low-Mass WIMPs from Direct Dark Matter Detection Experiments with Non-negligible Threshold Energy

Speaker

Dr Chung-Lin SHAN

15:15-15:30 Hunting for WIMPs, how low should we go?

Speaker

Aaron Pierce

15:30 16:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: Kerstin Perez

16:00-16:15 ABRACADABRA: A novel approach to detecting axion dark matter

Speaker

Benjamin Safdi

16:15-16:30 The Axion Dark Matter Experiment

Speaker

William Wester

16:30-16:45

Axion and ALP Dark Matter Search with the International Axion Observatory (IAXO) and mini-IAXO

Speaker

Julia Katharina Vogel

16:45-17:00 The Axion Resonant InterAction Detection Experiment (ARIADNE)

Speaker

Justin Shortino

17:00-17:15

A Fresh Look at Axions: Using NuSTAR Solar Observations in Search for Dark Matter

Speaker

Jaime Ruz Armendariz

17:15-17:30 Emission of Photons and Relativistic Axions from Axion Stars

Speaker

Abhishek Mohapatra

17:30-17:45

Signatures of dark-matter sub-structure in axion direct detection experiments

Speaker

Joshua Foster

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

Thursday 10 August

14:00

Dark matter

Session | Location: The Athenaeum, Small Theater | Convener: Francesca Calore

14:00-14:15 Full Sky Indirect Detection: Challenges and Strategies

Speaker

Sheldon Campbell

14:15-14:30 Searching for Dark Matter in M31 with HAWC

Speaker

Andrea Albert

14:30-14:45 Dark Matter Searches using Dwarf Galaxies with HAWC

Speaker

Dr Tolga Yapici

14:45-15:00

Galactic Dark Matter substructure searches with the Cherenkov Telescope Array (CTA)

Speaker

Dr Moritz Hütten

15:00-15:15

Multi-wavelength Approach to Indirect Dark Matter Searches with RX-DMFIT

Speaker

Alex McDaniel

15:15-15:30

The GAPS Experiment for Cosmic-ray Antinuclei Signatures of Dark Matter

Speaker

Kerstin Perez

15:30

16:00 **Dark matter**

Session | Location: The Athenaeum, Small Theater | Convener: Benjamin Safdi

16:00-16:15

General Constraints on Decaying Dark Matter from the Cosmic Microwave **Background**

Speaker

Chih-Liang Wu

16:15-16:30

Primordial Black Holes as Dark Matter: Constraints from the Milky Way

Speaker

Emma Storm

16:30-16:45 Supernova 1987A Constraints on Low-Mass Hidden Sectors

Speaker
Jae Hyeok Chang

16:45-17:00 Dark matter velocity spectroscopy

Speaker
Ranjan Laha

17:00-17:15 AMEGO: Dark Matter Prospects

Speaker
Manuel Meyer

17:15-17:30
Impact of Galactic subhalos on indirect dark matter searches with cosmic-ray antiprotons

Speaker
Mr Martin Stref

17:30-17:45 Free

17:45-18:00 Free