

# **PITT PACC Workshop: Atomic Dark Matter**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# **Mirror twin Higgs cosmology: constraints and a possible resolution to the $H_0$ and $S_8$ tensions**

*Thursday 26 January 2023 09:05 (35 minutes)*

**Presenter:** TSAI, Yuhsin (University of Notre Dame)

**Session Classification:** Morning Early

Contribution ID: 2

Type: **not specified**

## Dark Disks and Constraints from Gaia

*Thursday 26 January 2023 09:45 (35 minutes)*

**Presenter:** FAN, Jiji (Brown University)

**Session Classification:** Morning Early

Contribution ID: 3

Type: **not specified**

# Precision Cosmology of Atomic Dark Matter

*Thursday 26 January 2023 10:55 (35 minutes)*

**Presenter:** BARRON, Jared

**Session Classification:** Morning Late

Contribution ID: 4

Type: **not specified**

# Hydrodynamical Simulations of Atomic Dark Matter

*Thursday 26 January 2023 11:35 (35 minutes)*

**Presenter:** Prof. LISANTI, Mariangela (Princeton University)

**Session Classification:** Morning Late

Contribution ID: 5

Type: **not specified**

# Hydrodynamical Simulations of Atomic Dark Matter

*Thursday 26 January 2023 14:00 (35 minutes)*

**Presenter:** ROY, Sandip (Princeton University (US))

**Session Classification:** Afternoon Early

Contribution ID: 6

Type: **not specified**

## **N-Body Simulations of Atomic Dark Matter**

*Thursday 26 January 2023 14:40 (35 minutes)*

**Presenter:** GEMMELL, Caleb (University of Toronto)

**Session Classification:** Afternoon Early

Contribution ID: 8

Type: **not specified**

## **Dark Atom effects on CMB and Large Scale Structure**

*Thursday 26 January 2023 15:50 (35 minutes)*

**Presenter:** Prof. CYR-RACINE, Francis-Yan (University of New Mexico)

**Session Classification:** Afternoon Late



Contribution ID: 9

Type: **not specified**

# **An Overview of Atomic Dark Matter in Mirror Twin Higgs**

*Friday 27 January 2023 09:00 (35 minutes)*

**Presenter:** Prof. CHACKO, Zackaria (University of Maryland)

**Session Classification:** Morning Early

Contribution ID: **10**

Type: **not specified**

## **Gaia and Gaia Astrometry**

*Friday 27 January 2023 09:40 (35 minutes)*

**Presenter:** NECIB, Lina (MIT)

**Session Classification:** Morning Early

Contribution ID: 11

Type: **not specified**

## **Transient Astrometric Lensing of Compact Objects with Gaia**

*Friday 27 January 2023 10:55 (35 minutes)*

**Presenter:** CHEN, I-Kai (NYU)

**Session Classification:** Morning Late

Contribution ID: 12

Type: **not specified**

# Cosmological Evolution of Atomic Dark Matter Models

*Friday 27 January 2023 11:35 (35 minutes)*

**Presenter:** GURIAN, James

**Session Classification:** Morning Late

Contribution ID: 13

Type: **not specified**

## Atomic Dark Matter Simulation

*Friday 27 January 2023 14:40 (35 minutes)*

**Presenter:** SCHON, Sarah

**Session Classification:** Afternoon Early

Contribution ID: 14

Type: **not specified**

## **Dark Molecular Chemistry and DarkKROME**

*Friday 27 January 2023 14:00 (35 minutes)*

**Presenter:** Mr RYAN, Michael

**Session Classification:** Afternoon Early

Contribution ID: 15

Type: **not specified**

# Gravitational Wave Signatures of Dissipative Dark Matter

*Friday 27 January 2023 15:50 (35 minutes)*

**Author:** SHANDERA, Sarah

**Presenters:** Dr JEONG, Donghui (The Pennsylvania State University); SHANDERA, Sarah

**Session Classification:** Afternoon Late

Contribution ID: 16

Type: **not specified**

## **Nnaturalness Cosmology**

*Saturday 28 January 2023 09:00 (35 minutes)*

**Presenter:** Dr GHOSH, Subhjit (University of Notre Dame)

**Session Classification:** Morning Early



Contribution ID: 17

Type: **not specified**

## Dark Black Holes in the Mass Gap

*Saturday 28 January 2023 09:40 (35 minutes)*

**Presenter:** SMYTH, Nolan (University of California, Santa Cruz)

**Session Classification:** Morning Early

Contribution ID: **18**

Type: **not specified**

## **Exploring the astrophysics of dark atoms**

*Saturday 28 January 2023 10:55 (35 minutes)*

**Presenter:** GHALSASI, Akshay (University of Pittsburgh)

**Session Classification:** Morning Late

Contribution ID: 19

Type: **not specified**

## Searching for Mirror Stars with Gaia

*Saturday 28 January 2023 11:35 (35 minutes)*

**Presenter:** CURTIN, David (University of Toronto)

**Session Classification:** Morning Late

Contribution ID: **20**

Type: **not specified**

## Welcome

*Thursday 26 January 2023 09:00 (5 minutes)*

**Presenter:** LOW, Matthew (University of Pittsburgh)

**Session Classification:** Morning Early