

Session Program

9-10 Oct 2023

TACOS Workshop at Rice

Monday Session

Rice University, Duncan Hall, Room 1070
Rice University Duncan Hall, Room 1070 6100 Main Street Houston, TX 77005

Monday 9 October

08:30

Monday Session

Session |

Location: Rice University, Duncan Hall, Room 1070, Rice University Duncan Hall, Room 1070 6100 Main Street Houston, TX 77005

08:30–09:00 **Breakfast**

09:00–09:10 **Opening**

Speaker

Andrew Long

09:10–09:40 **New Opportunities and New Challenges with Upcoming CMB Surveys**

Speaker

Joel Meyers

09:40–10:00

The Dark Energy Spectroscopic Instrument (DESI): HOD-dependent systematics in modelling Baryon Acoustic Oscillations for Emission Line Galaxy

Speaker

Cristhian Garcia Quintero

10:00–10:30 **Taquitos I**

Speakers

Andrew Long, Dorian Amaral, Joel Meyers

10:30–11:10 **Coffee Break**

11:10–11:40 **Has JWST Discovered Dark Stars?**

Speaker

Katherine Freese

11:40–12:00 **The viability of ultralight bosonic dark matter in dwarf galaxies**

Speaker

Isabelle Goldstein

12:00–12:20 **Neutron star cooling with lepton-flavor-violating axions**

Speaker

Hong-Yi Zhang

12:20–12:30 **Group Photo**

12:30–13:50 **Lunch**

13:50–14:20

GRMHD Positron Applications from the Present and Primordial Universe

Speaker

Richard Anantua

14:20–14:40

Maximizing Direct Detection with HYPER Dark Matter**Speaker**

Gilly Elor

14:40–15:10

Taquitos II**Speakers**

Andrew Long, Dorian Amaral, Joel Meyers

15:10–15:50

Coffee

15:50–16:20

Dark Matter in Extreme Astrophysical Environments**Speaker**

Kuver Sinha

16:20–16:40

Supermassive Black Hole Binaries in Ultralight Dark Matter**Speaker**

Barmak Shams Es Haghi

16:40–17:00

Cosmological gravitational particle production of massive spin-2 particles**Speaker**

Siyang Ling

17:00–17:30

Coffee

17:30–18:00

The THESAN Project: Radiation-Hydrodynamic Simulations of the Epoch of Reionization**Speaker**

Aaron Smith

18:00–18:20

Gravitational waves from Naturalness**Speaker**

Mudit Rai

18:20–18:40

PROBING SOLAR NEUTRINOS WITH CE ν NS AND FLAVOR-DEPENDENT RADIATIVE CORRECTIONS AT DARK MATTER DETECTORS**Speaker**

Nityasa Mishra

18:40–21:10

Reception

21:10