

### **Monday 7 July**

13:30

#### Parallel 1: Direct detection I

Session

13:30-13:50 Status and results from the XENONnT Dark Matter experiment

Speaker

Ran Budnik

13:50-14:00 Shining Light on Dark Matter With LZ

Speaker

Prof. Matthew Szydagis

14:00-14:20 Searches for dark sector particles at Belle and Belle II

Speaker

Daniel Marcantonio

14:20-14:30 Status of CRESST

Speaker

Colin James Moore

14:30-14:50

COSINUS - A NaI cryogenic calorimeter to resolve the long standing DAMA/LIBRA dark matter claim.

Speaker

Dr Matthew Stukel

15:10 15:40

#### Parallel 1: DM in halos I

Session

15:40-16:00 Dark Stars, a possible solution to two recent astronomical puzzles

Speaker

Cosmin Ilie

16:00-16:20

Cold collisionless dark matter halos are consistent with observations of galaxies

Speaker

Liliya Williams

16:20-16:40

Probing long-range dark matter-baryon interactions in compact stellar systems

Speaker

Zihui Wang

16:40-17:00

MUSE-DARK: Dark matter halo properties of intermediate-z star-forming galaxies

Speaker

Bianca-Iulia Ciocan

17:00-17:20

Dark plasmas in the nonlinear regime: constraints from particle-in-cell simulations

Speaker

Pierce Giffin

### **Tuesday 8 July**

13:30

#### Parallel 1: Direct detection II

Session

13:30-13:50

The SABRE South Experiment at the Stawell Underground Physics Laboratory

Speaker

Yi Yi Zhong

13:50-14:10 Searches for Dark Matter with the ATLAS Experiment at the LHC

Speaker

Nikolina Ilic

14:10-14:30

Dark matter direct detection and constraints on non-relativistic effective operators

Speaker

Niklas Zimmermann

14:30-14:50

Refining the sensitivity of new physics searches with ancient minerals

Speaker

Audrey Fung

14:50-15:10 Dark-Matter Mass from Angular Scanning

Speaker

Prof. Jong-Chul Park

15:10 15:40

#### Parallel 1: Dark energy II

Session

15:40-16:00

Fitting the DESI BAO Data with Dark Energy Driven by the Cohen--Kaplan--Nelson Bound

Speaker

Patrick Adolf

16:20-16:40 Is dark energy dependent on cosmological curvature?

Speaker

Claia Bryja

16:40-17:00 Observational scalings testing modified gravity

Speaker

Armine Amekhyan

17:00-17:20 Simple quintessence models in light of DESI-BAO observations

Speaker

Varun Muralidharan

### **Wednesday 9 July**

11:00

# Parallel 1: Black holes / remnants II Session

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11:00-11:20

Reconstructing PTA measurements via early seeding of supermassive black holes

Speaker

Sohan Ghodla

11:20-11:40

CMB signatures of dark matter interactions beyond the power spectrum

Speaker

Yacine Ali-Haimoud

11:40-12:00 New dynamical probes of primordial black holes

Speaker

Benjamin Lehmann

12:00-12:20

Probing Primordial Black Hole and Dark Matter Energy Injection Using the 21-cm Power Spectrum

Speaker

Yitian Sun

### **Thursday 10 July**

13:30 **Parallel 1: Supernovae** Session 13:30-13:50 Study of cosmic expansion anisotropy with type Ia supernovae from Zwicky **Transient Facility** Speaker Chloé Barjou-Delayre 13:50-14:10 Heating the dark matter halo with dark radiation from supernovae **Speaker** Stefan Vogl 14:10-14:30 The second Type I Supernova data release of the Zwicky Transient Facility Speaker Philippe ROSNET 14:30-14:50 Measuring Dark Energy parameters with Type Ia Supernovae in LSST Speaker Philippe Gris 14:50-15:10 Supernova Bounds on Neutrinophilic Dark Matter Speaker Christopher Cappiello 15:10 15:40 Parallel 1: Astrophysical / cosmological DM probes I Session **Dimming Starlight with Dark Compact Objects** Speaker Leo Kim 16:00-16:20 Dark Kinetic Heating of Exoplanets and Brown Dwarfs Speaker Aidan Reilly Picolensing as a probe of compact dark matter 16:20-16:40 Speaker Dr Sergey Sibiryakov 16:40-17:00 Probing dark matter annihilation through planetary airglow and internal heat flow Speaker Marianne Moore

17:00-17:20

# Constraining Dark Acoustic Oscillations with the High-Redshift UV Luminosity Function

Speaker

Jared Barron

### Friday 11 July

11:00

# **Parallel 1: Gravitationsl waves / phase transitions II**Session

11:00-11:20

What happens when supercooling is terminated by curvature flipping?

Speaker

Tomasz Dutka

11:20-11:40 Mapping the Gravitational Wave Sky from Primordial Black Holes

Speaker

Cassandra Moats

11:40-12:00

RG Improvement of the Scalar Effective Potential in Finite Temperature Quantum Field Theory

Speaker

Andrija Rasovic

12:00-12:20

Estimation of the Hubble parameter from compact object catalogues without threshold

Speaker

Reiko Harada