

**Session Program**

**14-16 Nov 2022**

**Dark Interactions: new perspectives for  
theory and experiment**

***Session IV***

Online

# Sunday 13 November

17:00

## Session IV

Session | Location: Online | Convener: Robert Szafron

17:00–17:30

### Mechanical quantum sensing for dark matter: heavy, light, and ultra-light

**Speaker**

Daniel Carney

17:30–17:45

### New Constraints on the Profiles and Masses of Dark Matter and Cosmic Neutrinos through Precision Astrometry and Quantum Sensors

**Speaker**

Yu-Dai Tsai

17:45–18:00

### Stepped Dark Sectors and Cosmological Tensions

**Speaker**

Melissa Joseph

18:00

## Tuesday 15 November

16:50

### Session IV

Session | Location: Online | Convener: Matheus Hostert

16:50–17:20 **Do dark matter and neutrinos talk to each other?**

**Speaker**

Carlos A. Argüelles-Delgado

17:20–17:35

**Neutrinos from the Sun as a discovery tool for dark matter - electron scattering**

**Speaker**

Tarak Nath Maity

17:35–17:50

**Non-standard neutrino interactions in light mediator models at reactor experiments**

**Speaker**

Ankur Verma

17:50