

**Session Program**

**24-27 Mar 2025**

**UCLA Dark Matter 2025**

***SESSION 6: Astrophysics and Cosmology-2***

UCLA Physics and Astronomy Building 1-425  
475 Portola Plaza, Los Angeles, CA 90095 [darkmatter@physics.ucla.edu](mailto:darkmatter@physics.ucla.edu)

# Monday 24 March

10:15

## SESSION 6: Astrophysics and Cosmology-2

**Session** |

**Location:** UCLA Physics and Astronomy Building 1-425, 475 Portola Plaza, Los Angeles, CA 90095  
darkmatter@physics.ucla.edu

10:15-10:30 **Status of cosmic antinuclei searches**

**Speaker**

Philip Von Doetinchem

10:30-10:45 **A Tale of Two Black Hole Populations**

**Speaker**

Simeon Bird

10:45-11:00 **Long-Range Dark Matter Self-Interactions in FIRE Simulations**

**Speaker**

Isabel Sands

11:00-11:15

**Probing DM Substructure with Dynamical Heating in Ultra-Faint Dwarfs**

**Speaker**

Peter Graham

11:15-11:30 **Mapping out Dark Matter in the Milky Way**

**Speaker**

Lina Necib

11:30-11:45

**Primordial Black Holes as Dark Matter Candidates:  $O(\alpha)$  Corrections to Hawking Radiation**

**Speaker**

Makana Silva

11:45-12:00

**Limits on primordial black holes as dark matter from two decades of the OGLE survey**

**Speaker**

Przemek Mróz

12:00