

Session Program

31 August 2026 to 4 September 2026

PPC 2026

Dark Matter

Monday 31 August

16:10

Dark Matter

Session

16:10–16:35

Direct and indirect probes of gravity-mediated dark matter in large extra dimensions

Speaker

Igor Samsonov

16:35–17:00

21-cm constraints on Dark Matter

Speaker

Dominic Agius

17:00–17:25

Non-Thermal Dark Matter Production from post-Inflationary dynamics

Speaker

Avirup Ghosh

17:25–17:50

Status of the LUX-ZEPLIN dark matter experiment

Speaker

Theresa Fruth

17:50

Tuesday 1 September

14:00

Dark Matter Session

14:00–14:25 **Heavy dark matter in rapidly evolving massive stars**

Speaker

Giorgio Busoni

14:25–14:50 **Randall-Sundrum Models and Multibrane Extension**

Speaker

Joshua Gill

14:50–15:15 **Warm Ingredient In a Cold Soup**

Speaker

Amrita Mukherjee

15:15–15:40 **Overview of the DarkSide-20k Dark Matter Experiment**

Speaker

Dr Marek Walczak

15:40

16:10

Dark Matter Session

16:10–16:35

Latest results from XENONnT on dark matter search and solar neutrinos

Speaker

Dr Bernard Andrieu

16:35–17:00 **Atomic ionisation from general scattering and absorption**

Speaker

Narise Williams

17:00–17:25

Heavy Dark Baryons: Self-Interactions and the Dark Matter-Baryon Coincidence

Speaker

Giovani Dalla Valle Garcia

17:25

Thursday 3 September

14:00

Dark Matter

Session

14:00–14:25

Probing Axion Couplings with Solar X-ray Observations

Speaker

Dr Marco Taoso

14:25–14:50

Self-Interaction Bounds on Ultralight Dark Matter Couplings to Matter

Speaker

Dr Mohammad Aghaie

14:50–15:15

Searching for ultralight dark matter with atomic clocks and cavities

Speaker

Ashlee Caddell

15:15–15:40

Space-Borne Atomic Clocks for Gravitational Detection of Local Dark Matter Overdensities

Speaker

Shuyi Lyu

15:40