

**Session Program**

**14-16 Nov 2022**

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

***Session I***

Online

# Monday 14 November

12:20

## Session I

**Session** | **Location:** Online | **Convener:** Diallo Boye

12:20–12:50 **Cosmic Probes of the Dark Sector**

**Speaker**

Dr Chanda Prescod-Weinstein

12:50–13:20 **Gravitational wave radiation as a probe of dark sectors**

**Speaker**

Andrew Long

13:20–13:35

**Motivations for a Large Self-Interacting Dark Matter Cross Section from Milky Way Satellites**

**Speaker**

Maya Silverman

13:35

# Tuesday 15 November

12:20

## Session I

**Session** | **Location:** Online | **Convener:** Hooman Davoudiasl

12:20–12:50 **Recent Advances in Machine Learning for High Energy Physics**

**Speaker**

Javier Mauricio Duarte

12:50–13:05 **CURTAINS for your sliding window**

**Speaker**

Debajyoti Sengupta

13:05–13:20

**Search for invisible Higgs bosons with interpretation for dark matter at the LHC using the ATLAS detector**

**Speaker**

Mohamed Zaazoua

13:20–13:35 **Search for new spin-1 boson using ATLAS detector data**

**Speaker**

Xola Mapekula

13:35