

**Session Program**

**15-16 Aug 2022**

**Canadian Astro-Particle Physics Summer  
Student Talk Competition**

***Session I***

Virtual/Laurentian University

# Sunday 14 August

10:00

## Session I: Session I

**Session** | **Location:** Virtual/Laurentian University | **Convener:** Mr Matt Depatie

10:00-10:12 **How the Sun Shines**

**Speaker**

Maggie Oxford

10:12-10:24 **Neutron Beam Solid Transmission Monte Carlo Simulations**

**Speaker**

Ry Cyna

10:24-10:36

**The decoherence curve - measuring the lateral distribution of muons in cosmic-ray air showers**

**Speaker**

Guilherme Caumo

10:36-10:48 **Monte Carlo simulation of the muon flux in DEAP-3600**

**Speaker**

Mr LORENZO MIRASOLA

10:48-11:00

**Modelling the Kinematics of an Ultra Diffuse Galaxy to Determine its Dark Matter Content**

**Speaker**

Henry White

11:00-11:12 **Waveform fitting algorithm for LoLX pulse data**

**Speaker**

Laura Gonzalez Escudero

11:12-11:24 **Ar2D2 Detector Simulation**

**Speaker**

Megan Foster

11:24-11:36 **Lovelock Black Holes in the Five-Dimensional Spacetime**

**Speaker**

M. Nabyan Arkan

11:36