

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