

Session Program

9-13 Dec 2024

**International Joint Workshop on the Standard
Model and Beyond 2024 & 3rd Gordon
Godfrey Workshop on Astroparticle Physics**

Dark Matter

Tuesday 10 December

14:00

Dark Matter

Session | Location: Ainsworth Building, G03 | Convener: Dr Peter Jonathan Cox

14:00-14:30 **Dark matter limits from the tip of the red giant branch**

Speaker
Aaron Vincent

14:30-14:50 **Hot dark matter in N-body simulations**

Speaker
Giovanni Pierobon

14:50-15:10 **Evidence for Dark Matter Density Spikes Surrounding Black Holes**

Speaker
Man Ho Chan

15:10-15:30

Exploring light dark matter boosted by supernova neutrinos in the present and past Universe

Speaker
Dr Yen-Hsun Lin

15:30-15:50 **Constraints on Antiquark Nuggets from Collisions with the Earth**

Speaker
Garry Vong

15:50

16:20

Dark Matter

Session | Location: Ainsworth Building, G03 | Convener: Shyam Balaji

16:20-16:50 **Status of singlet-doublet fermion dark matter**

Speaker
Prof. Narendra Sahu

16:50-17:10 **Multi-Component Dark Matter from Minimal Flavor Violation**

Speaker
Shohei Okawa

17:10-17:30

Chiral Dark Matter and radiative neutrino mass generation from gauged $U(1)$ symmetry

Speaker
Prof. Shreyashi Chakdar

17:30-17:50

Light mass window of inert doublet dark matter with lepton portal interaction

Speaker
Yuji Omura

17:50

Thursday 12 December

14:00

Dark Matter

Session | Location: Ainsworth Building, G03 | Convener: Tarak Nath Maity

14:00-14:30

Absorption of dark matter particles in atoms via a Migdal-type effect

Speaker

Igor Samsonov

14:30-14:50

Constraining millicharged dark matter with gravitational positivity bounds

Speaker

Suro Kim

14:50-15:10

Dark matter candidate emerging from 3-form gauge theory

Speaker

Christian Paolo Canete

15:10-15:30

Delicate Cancellations in Kaluza-Klein Dark Matter Calculations

Speaker

Joshua Gill

15:30-15:50

Dark matter in stabilised warped extra-dimensional model with heavy radion

Speaker

George Sanamyan

15:50