Session Program

Dec 9 – 13, 2024

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

Cosmology

Tue, December 10

2:00 PM

Cosmology

Session | **Location:** Ainsworth Building, G02 | **Convener:** ZACHARY PICKER

2:00 – 2:30 PM

Gravitational wave spectrum from expanding string loops on domain walls: Implication to nano-hertz pulsar timing array signal

Speaker
Wakutaka Nakano

2:30 – 2:50 PM

Listening to Dark Sectors with Pulsar Timing Arrays

Speaker
Dr Amitayus Banik

2:50 – 3:10 PM

Astrometry, gravitational waves and synergies with Pulsar Timing Arrays

Speaker
Ameek Malhotra

3:10 – 3:30 PM

Hunting Primordial Black Hole Dark Matter in Lyman-alpha forest

Speaker
Abhijeet Singh

3:30 – 3:50 PM

CMB and 21cm constraints on Primordial Black Holes

Speaker
Dominic Agius

3:50 PM

4:20 PM

Cosmology

Session | **Location:** Ainsworth Building, G02 | **Convener:** Jan Hamann

4:20 – 4:50 PM

Domain wall networks and their cosmological signatures

Speaker
Urjit Yajnik

4:50 – 5:10 PM

Revisiting Metastable Cosmic String Breaking

Speaker
Akifumi Chitose

5:10 – 5:30 PM

Prediction of non-Gaussianity in CMB lensing with full-sky simulations

Speaker
Yuqi Kang

5:30 – 5:50 PM

CMBubbles: Searching for the existence of a multiverse in Planck CMB

Speaker
Ms Jahanvi M

5:50 PM

Thu, December 12

2:00 PM

Cosmology

Session | **Location:** Ainsworth Building, G02 | **Convener:** Jia Liu

2:00 – 2:30 PM **Early supermassive black hole direct collapse with dark matter**

Speaker
ZACHARY PICKER

2:30 – 2:50 PM

Self-interacting scalar field distributions around Schwarzschild black holes

Speaker
Mr Alejandro Aguilar Nieto

2:50 – 3:10 PM

A Beyond Standard Model Approach to Dark Energy and its multiple observational consequences

Speaker
Prof. Anupam Singh

3:10 – 3:30 PM

Reconciling Cosmological Tensions with Inelastic Dark Matter and Dark Radiation in a $U(1)_D$ Framework

Speaker
Satyabrata Mahapatra

3:30 – 3:50 PM **Bayesian Optimisation for Bayesian Evidence (BOBE)**

Speaker
Nathan Cohen

3:50 PM