

## Session Program

9-11 May 2022



# Phenomenology 2022 Symposium: From Virtual to Real

## *Cosmology IV*

University of Pittsburgh  
Pittsburgh, PA 15260

Tuesday 10 May

16:30

Cosmology IV

Session | Location: Lawrence Hall 106 | Convener: Vedran Brdar

16:30-16:45  
**Gravitational Waves from an Inflation Triggered First-Order Phase Transition**  
**Speaker**  
Kunfeng Lyu

16:45-17:00 **Cosmological Measurements of Light but Massive Relics**  
**Speaker**  
Nicholas DePorzio

17:00-17:15 **Constraints on Self-interacting Radiations with Cosmological Data**  
**Speaker**  
Jae Hyeok Chang

17:15-17:30 **High-pT muons in cosmic-ray air showers**  
**Speaker**  
Shirley Li

17:30-17:45  
**Correlating Gravitational Wave and Gamma-ray Signals from Primordial Black Holes**  
**Speaker**  
Steven Clark

17:45-18:00 **A Step in Understanding the Hubble Tension**  
**Speaker**  
Melissa Joseph

18:00-18:15 **Neff constraint on portal interaction with hidden sectors**  
**Speaker**  
Pranjal Ralegankar

18:30