

**Session Program**

**24-30 Aug 2025**

**The XIX International Conference on Topics in  
Astroparticle and Underground Physics  
(TAUP2025)**

***Cosmology and Particle Physics***

Xichang Qionghai Hotel  
Xichang, Sichuan, China

# Monday 25 August

14:00

## Cosmology and Particle Physics: parallel session 1

**Session** | **Location:** Conference Room F1-R3 | **Convener:** Huaike Guo

14:00–14:20

### Connecting inflation and the baryon asymmetry with neutrino reheating

**Speaker**

Xinyi Zhang

14:20–14:40

### Gravitational waves of GUT phase transition during inflation

**Speaker**

Xi-He Hu

14:40–15:00

### Reionization in the axiverse and the preference for low temperature reheating

**Speaker**

Ziwen Yin

15:00–15:20

### Multi-Wavelength Probing of Primordial Black Holes as Dark Matter

**Speaker**

Xiu-hui Tan

15:20–15:40

### Can dark-matter Q-balls grow to the mass gap masses?

**Speaker**

Alexander Libanov

15:40

16:00

## Cosmology and Particle Physics: parallel session 2

**Session** | **Location:** Conference Room F1-R3 | **Convener:** Jun Zhang

16:00–16:20

### Determining properties of dark matter by astronomical observations

**Speaker**

Xiaojun Bi

16:20–16:40

### Dark photon production from axions with mildly large misalignment

**Speaker**

Hong-Yi Zhang

16:40–17:00

### Constraining Pressure-Based Dark Energy Models with Latest Cosmological Data

**Speaker**

Hanyu Cheng

17:00