

## **Session Program**

**8-26 Jan 2024**



**IAS Program on High Energy Physics (HEP 2024)**  
***Conference: Parallel Sessions (Theory)***

# Monday 22 January

16:00

## Conference: Parallel Sessions (Theory): CF-M3-TH02

**Session** |**Location:** IAS2042, 2/F, IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |**Convener:** Antonio Delgado

16:00-16:25

### Axion-like Particle at Higgs Factories and at Super-K

**Speaker**

Kingman Cheung

16:25-16:50

### New Physics Related to Long-lived Particle Search at Colliders

**Speaker**

Xiaoping Wang

16:50-17:15

### Wide Binary Evaporation by Bosonic Stars

**Speaker**

Yu Gao

17:15-17:40

### Light Scalars at Future Collider

**Speaker**

Huayang Song

17:40-18:05

### SMEFT at Future Lepton Colliders with Machine Learning

**Speaker**

Jiayin Gu

18:05

## Tuesday 23 January

14:00

### Conference: Parallel Sessions (Theory): CF-Tu3-TH01

**Session** |**Location:** IAS2042, 2/F, IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |**Convener:** Hao Zhang

14:00-14:25

#### EFT in Supersymmetry

**Speaker**

Antonio Delgado

14:25-14:50

#### Single Transverse Spin Asymmetry as a New Probe of SMEFT Dipole Operators

**Speaker**

Xin Kai Wen

14:50-15:15

#### Dark Matter Candidates from U(1) Hidden Sectors

**Speaker**

Wan Zhe Feng

15:15-15:40

#### Possible Anomalous Z Mass from the Model of the Instantaneous Symmetrical Breaking and the Expansion of the Universe

**Speaker**

Yaquan Fang

15:40

Wednesday 24 January

14:00

Conference: Parallel Sessions (Theory): CF-W3-TH01

Session |  
Location: IAS2042, 2/F, IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |  
Convener: Jiayin Gu

14:00-14:25

Exploring Ultra-Light Wave-Like Dark Matter with Quantum Spin Sensors

Speaker  
Jia Liu

14:25-14:50

Dark Showers from Z - Z' Mixing

Speaker  
Xuhui Jiang

14:50-15:15

Precision Prediction on Heavy Quark Decays

Speaker  
Jian Wang

15:15-15:40

Testing Bell Inequalities in W Boson Pair Production at Higgs Factory

Speaker  
Hao Zhang

15:40