

Session Program

12-16 Feb 2023



IAS PROGRAM

High Energy Physics

February 12 - 16, 2023

Conference: February 14 - 16, 2023

IAS Program on High Energy Physics (HEP 2023)

Mini-workshop: Theory

Sunday 12 February

08:55

Mini-workshop: Theory: Day 1 - Session S (TH1)

Session |

Location: Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Liming ZHANG

09:00–09:25

Low Energy FCNC Searches for Light Scalars and Pseudoscalars [Zoom]

Speaker

Jure ZUPAN

09:25–09:50

Lepton-flavour-violating Z and Quarkonium Decays

Speaker

Lorenzo CALIBBI

09:50–10:15

Recent Progress on CP Violation

Speaker

Qin QIN

10:15–10:40

Status of CEPC Flavor Physics Study

Speaker

Tsz Hong KWOK

10:40

11:00

Mini-workshop: Theory: Day 1 - Session S (TH2)

Session |

Location: Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Yu GAO

11:00–11:25

Photon-jet Events as a Probe of Axion-like Particles at the LHC

Speaker

Mengchao ZHANG

11:25–11:50

Models for the Muon EDM

Speaker

Yuichiro NAKAI

11:50–12:15

Time-varying Resonant Mass at Collider and Beam Dump Experiments

Speaker

Xiao-ping WANG

12:15–12:40

Z' and Leptoquark Searches at the P2 Experiment

Speaker

Yong Chao ZHANG

12:40

14:00

Mini-workshop: Theory: Day 1 - Session S: (TH3)**Session** |**Location:** 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

Weak Mixing Angle Determination and BSM Searches: Theoretical Issues [Zoom]**Speaker**

Alessandro VICINI

14:25-14:50

Searching for the New Physics with Jet Charge [Zoom]**Speaker**

Bin YAN

14:50-15:15

SMEFT at Future Lepton Colliders with Machine Learning**Speaker**

Jiayin GU

15:15-15:40

Tau Polarization Measurement at FCC-ee [Zoom]**Speaker**

Jean-Claude BRIENT

15:40

Monday 13 February

11:00

Mini-workshop: Theory: Day 2 - Session M (TH2)

Session |

Location: Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Xiaoping WANG

11:00-11:25

HNL Search at Future Electron and Muon Colliders

Speaker

Ariel ROCK

11:25-11:50

ILC Beam Dump Experiment and New Physics Search

Speaker

Kento ASAI

11:50-12:15

Decay of the Mediator Particle at the Threshold [Zoom]

Speaker

Shigeki MATSUMOTO

12:15-12:40

Long Lived Particles at FCC-ee [Zoom]

Speaker

Suchita KULKARNI

12:40

14:00

Mini-workshop: Theory: Day 2 - Session M (TH3)

Session |

Location: Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Qin QIN

14:00-14:25

Hidden-charm Exotics and Their Productions [Zoom]

Speaker

Feng-Kun GUO

14:25-14:50

Measurement of V_{us} with Tau Decays to Test of First Row CKM Matrix Unitarity [Zoom]

Speaker

Alberto LUSIANI

14:50-15:15

Long-lived Scalar at FASER

Speaker

Wei SU

15:15-15:40

New Physics in Meson Mixing [Zoom]

Speaker

Luiz Vale SILVA

15:40

16:00

Mini-workshop: Theory: Day 2 - Session M (TH4)**Session** |**Location:** Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |**Convener:** Zhen LIU

16:00-16:25

Going Beyond the Dimension 6 EFT in the High Energy/Luminosity Era**Speaker**

Rick S. GUPTA

16:25-16:50

Probing Heavy Neutral Leptons at Future Experiments [Zoom]**Speaker**

Juraj KLARIC

16:50-17:15

Machine Learning at Higgs Factory**Speaker**

Shengdu CHAI

17:15-17:40

Probing R-parity Violation in B-meson Decays to a Baryon and a Light Neutralino [Zoom]**Speaker**

Zeren Simon WANG

17:40