

Session Program

12-16 Feb 2023



IAS Program on High Energy Physics (HEP 2023)

***Conference: Parallel Sessions (Experiment/
Detector)***

Tuesday 14 February

14:00

Conference: Parallel Sessions (Experiment/Detector): Day 1 - Session 1: (Tu3-ED01)

Session |

Location: IAS1038, 1/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Yong LIU

14:00-14:25

IR Design for High Lumi & Low Background [Zoom]

Speaker

Michael Kenneth SULLIVAN

14:25-14:50

Update of CEPC Lumical Design

Speaker

Suen HOU

14:50-15:15

Study of Beam Background for the CEPC

Speaker

Haoyu SHI

15:15-15:40

Study of Radiation Protection for the CEPC

Speaker

Guangyi TANG

15:40

16:00

Conference: Parallel Sessions (Experiment/Detector): Day 1 - Session 2: (Tu3-ED02)

Session |

Location: IAS1038, 1/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Xuai ZHUANG

16:00-16:25

CEPC Higgs Physics Update

Speaker

Yaquan FANG

16:25-16:50

Searches for BSM Higgs Decays at CMS

Speaker

Mingshui CHEN

16:50-17:15

Higgs to Fermion Couplings @ LHC

Speaker

Huaqiao ZHANG

17:15-17:40

Investigating Higgs Self-interaction through Di-Higgs Plus Jet Production

Speaker

Hao ZHANG

17:40-18:05

Higgs Global Analysis

18:05

Speaker
Gang LI

Wednesday 15 February

14:00

Conference: Parallel Sessions (Experiment/Detector): Day 2 - Session 1: (W3-ED01)

Session |

Location: IAS1038, 1/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Yaquan FANG

14:00-14:20 **New Physics Search at CEPC**

Speaker

Xuai ZHUANG

14:20-14:40

Search for Dark Matter in the Events with Missing Transverse Momentum at Colliders

Speaker

Jinfei WU

14:40-15:00 **Searching for Quirk Signal at the LHC**

Speaker

Junle PEI

15:00-15:20 **Quantum computing for CEPC/HEP [Zoom]**

Speaker

Abdualazem Fadol MOHAMMED

15:20

16:00

Conference: Parallel Sessions (Experiment/Detector): Day 2 - Session 2: (W3-ED02)

Session |

Location: IAS1038, 1/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Yiming LI

16:00-16:25

Preliminary Design of the CEPC det. Hall and Detector Installation Scheme

Speaker

Junsong ZHANG

16:25-16:50 **CEPC Beam Energy/Polarization Measurement [Zoom]**

Speaker

Yongsheng HUANG

16:50-17:15 **Status Report from LCTPC**

Speaker

Huirong QI

17:15