

Session Program

13-17 Jan 2025



IAS Program on Fundamental Physics (FP 2025)

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

Tuesday 14 January

14:00

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

Session |

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

Convener: Yiming LI

14:00–14:20 CEPC ECAL Activities & Highlights

Speaker

Yong LIU

14:20–14:40 CEPC Stereo Xstal ECAL

Speaker

Huaqiao ZHANG

14:40–15:00 Cyber PFA for the CEPC Ref TDR

Speaker

Fangyi GUO

15:00–15:20

Pixelated Readout Time Projection Chamber Technology R&D for Future Circular Collider

Speaker

Huirong QI

15:20–15:40

1-1 Correspondence Reconstruction and Color Singlet Identification at the CEPC

Speaker

Yuxin WANG

15:40

16:10

Conference: Parallel Sessions (Experiment/Detector): Tu-ED02

Session |

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

Convener: Yong LIU

16:10–16:30 CEPC Beam Background & MDI

Speaker

Haoyu SHI

16:30–16:50 Development of the CEPC VTX Prototype

Speaker

Ying ZHANG

16:50–17:10 CEPC CMOS Strip Tracker [Zoom]

Speaker

Xin SHI

17:10–17:30 LGAD Based Timing Detector for the Future Collider

Speaker

Mei ZHAO

17:30–17:50

Development of HVCMOS in 55 nm Process for Future Tracking Detectors

Speaker

Yiming LI

17:50–18:10

Performance and Background Analysis of CEPC Vertex Detector

Speaker

Hancen LU

18:10

Wednesday 15 January

14:00

Conference: Parallel Sessions (Experiment/Detector): W3-ED01

Session |

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

Convener: Kai YI

14:00–14:20

CEPC New Physics White Paper Studies

Speaker

Xuai ZHUANG

14:20–14:40

CEPC Flavor Physics White Paper Status

Speaker

Lorenzo CALIBBI

14:40–15:00

CKM Elements Measurements at the CEPC

Speaker

Shanzhen CHEN

15:00–15:20

Time-Dependent Precision Measurement of $B_s^0 \rightarrow \phi \mu^+ \mu^-$ Decay at FCC-ee

Speaker

Tsz Hong KWOK

15:20–15:40

Experimental Road to a Charming Family of Tetraquark and Beyond

Speaker

Kai YI

15:40

16:10

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

Session |

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

Convener: Xuai ZHUANG

16:10–16:30

Recent Dark Matter/Photon/Higgs Search Results from ATLAS

Speaker

Qibin LIU

16:30–16:50

Automatizing the search for mass resonances using BumpNet

Speaker

Michael Kwok Lam CHU

16:50–17:10

Recent Progress of DarkSHINE R&D

Speaker

Kun LIU

17:10–17:30

Innovative Axion Detection via Resonantly Enhanced Photon Regeneration in Penning Traps

Speaker

Jie FENG

17:30–17:50

LLP Searches with Codex-b

Speaker

Bingxuan LIU

17:50