

Session Program

12-16 Jan 2026



IAS Program on Fundamental Physics (FP 2026)

Conference: Parallel Sessions (Collider/Experiment/Detector)

Monday 12 January

14:00

Conference: Parallel Sessions (Collider/Experiment/Detector): M-ED01: Collider Physics I

Session |

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

14:00-14:20 Improved Constraints on Higgs Self-couplings in HEFT

Speaker

Jian WANG

14:20-14:40

Combination of ATLAS And CMS Searches for Higgs Boson Pair Production at 13 TeV

Speaker

Bai-Hong ZHOU

14:40-15:00

Higgs self-coupling Measurement @ LHC

Speaker

Yanping HUANG

15:00-15:20

[Online via Zoom] Standard Model HZZ Polarization Measurement and WZγ Observation at CMS

Speaker

Leyun GAO

15:40

16:10

Conference: Parallel Sessions (Collider/Experiment/Detector): M-ED02: Collider Physics II

Session |

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

16:10-16:30 BSM Search Potential at CEPC

Speaker

Xuai ZHUANG

16:30-16:50

Heavy Flavor Opportunities @ CEPC

Speaker

Shanzhen CHEN

16:50-17:10

Status of CEPC Hadronic Calorimeter

Speaker

Haijun YANG

17:10-17:30

Real Triplet Extension Radiative Correction to Higgs-strahlung in Future Colliders

Speaker

Mohamed Younes SASSI

17:30-17:50

Two-pion Distribution Amplitudes and the H_{14} Phenomena

Speaker

Shan CHENG

17:50

Tuesday 13 January

14:00

Conference: Parallel Sessions (Collider/Experiment/Detector): Tu-ED01: Collider Detector I

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 |14:00-14:20 **Silicon Vertex Detector at CEPC****Speaker**

Zhijun LIANG

14:20-14:40 **Development of HVCmos-based CEPC Inner Tracker****Speaker**

Zijun XU

14:40-15:00

Overview of the CEPC Outer Tracker and Recent Progress in Key Detector Technologies

Speaker

Jiajian TEOH

15:00-15:20 **Overview of LHCb Mighty Tracker****Speaker**

Yanyan GAO

15:20-15:40 **Progress on TPC Technology for e^+e^- Collider and Neutrino Detection****Speaker**

Huirong QI

15:40

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

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 |16:10-16:30 **The IDEA Detector for Future e^+e^- Colliders****Speaker**

Paolo GIACOMELLI

16:30-16:50 **High-granularity crystal calorimeter for future Higgs factories****Speaker**

Yong LIU

16:50-17:10 **Luminosity measurement at the future e^+e^- collider****Speaker**

Lei ZHANG

17:10-17:30 **CEPC Reference Detector Performance**

17:50

Speaker

Mingshui CHEN

17:30-17:50

Learning from All Reconstructed Particle at CEPC

Speaker

Manqi RUAN

Thursday 15 January

14:00

Conference: Parallel Sessions (Collider/Experiment/Detector): Th-ED01: Collider Physics III

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 |

14:00-14:20

Precise determination of the strong coupling constant from collider data

Speaker

Xiaoyuan ZHANG

14:20-14:40

Probing light-quark dipole operators with nucleon energy correlators

Speaker

Yingsheng HUANG

14:40-15:00

Long-lived particle searches

Speaker

Wei SU

15:00-15:20

Heavy Long-lived Dark Vector Via a Gluonic Portal

Speaker

Qiyuan GAO

15:40