

The 2017 International Workshop on High Energy Circular Electron Positron Collider

Report of Contributions

Contribution ID: 7

Type: **not specified**

A detector for FCC-ee derived from the detector model for CLIC

The FCC-ee is a high-luminosity e^+e^- circular collider perceived as a potential first step of the Future Circular Collider program at CERN. FCC-ee would operate at centre-of-mass energies from 91 GeV (Z-boson) to 350 GeV (ttbar threshold). The FCC-ee physics program requires good particle identification and jet reconstruction performance which propagates to strict requirements on the detector design. A new detector model for FCC-ee, based on the conceptual design of the new detector model for CLIC, was developed to meet these conditions.

The detector includes low mass vertexing and silicon tracking systems with small cells, accurate hit-timing for all subsystems and highly granular calorimeters for precise particle-flow reconstruction. The proposed detector benefits from the knowledge gained during the studies for detectors at ILC and CLIC, as well as from the fully functional iLCSoft simulation and reconstruction framework using DD4hep.

This talk gives a brief overview of the FCC-ee project and describes the new detector model. Results of detailed detector performance studies based on full Monte Carlo simulations are presented.

Primary author: VIAZLO, Oleksandr (CERN)

Presenter: VIAZLO, Oleksandr (CERN)

Contribution ID: 11

Type: **not specified**

Discussion on CEPC CDR

Wednesday, November 8, 2017 8:30 AM (45 minutes)

Presenters: QIAN, Jianming (University of Michigan); JOAO GUIMARAES COSTA

Session Classification: Discussion

Contribution ID: 12

Type: **not specified**

Discussion on organizations and cooperation

Wednesday, November 8, 2017 9:15 AM (45 minutes)

Presenters: BEDESCHI, Franco (I); Prof. GAO, Yuanning (Tsinghua University)

Session Classification: Discussion

Contribution ID: 13

Type: **not specified**

International Collaboration and joint R&D effort

Wednesday, November 8, 2017 12:00 PM (25 minutes)

Presenters: YANG, Haijun (SJTU); Prof. JOAO GUIMARAES COSTA

Session Classification: Summary

Contribution ID: 14

Type: **not specified**

Theory summary and plan

Wednesday, November 8, 2017 10:30 AM (20 minutes)

Presenter: Prof. LIU, Tao (HKUST)

Session Classification: Summary

Contribution ID: 15

Type: **not specified**

Detector and Physics summary and plan

Wednesday, November 8, 2017 10:50 AM (25 minutes)

Presenter: Mr RUAN, Manqi (IHEP)

Session Classification: Summary

Contribution ID: 16

Type: **not specified**

CEPC accelerator summary and plan

Wednesday, November 8, 2017 11:15 AM (25 minutes)

Presenter: Dr CHOU, Weiren (IHEP)

Session Classification: Summary

Contribution ID: 17

Type: **not specified**

SppC summary and plan

Wednesday, November 8, 2017 11:40 AM (20 minutes)

Presenter: Prof. TANG, Jingyu (IHEP, CAS)

Session Classification: Summary

Contribution ID: **18**

Type: **not specified**

Report from the Industry-Institute consortium

Wednesday, November 8, 2017 2:00 PM (20 minutes)

Presenter: Prof. GAO, Jie (高能所)

Session Classification: Summary

Contribution ID: 19

Type: **not specified**

Report from the institutional meeting (no slides)

Wednesday, November 8, 2017 2:20 PM (20 minutes)

Presenter: Prof. GAO, Yuanning (Tsinghua University)

Session Classification: Summary

Contribution ID: **20**

Type: **not specified**

Vision talk

Monday, November 6, 2017 2:00 PM (45 minutes)

Presenter: Prof. ARKANI-HAMED, Nima

Session Classification: International Initiatives

Contribution ID: 21

Type: **not specified**

Closing remarks

Wednesday, November 8, 2017 2:40 PM (20 minutes)

Presenter: Prof. LOU, Xinchou (IHEP)

Session Classification: Summary

Contribution ID: 22

Type: **not specified**

Opening Adress

Monday, November 6, 2017 8:30 AM (10 minutes)

Presenter: Prof. WANG, Yifang (IHEP)

Session Classification: CEPC-SppC Overview

Contribution ID: 23

Type: **not specified**

CEPC-SppC Overview & Objectives

Monday, November 6, 2017 8:40 AM (25 minutes)

Presenter: Prof. LOU, Xinchou (高能所)

Session Classification: CEPC-SppC Overview

Contribution ID: 24

Type: **not specified**

CEPC accelerator CDR - status

Monday, November 6, 2017 9:25 AM (25 minutes)

Presenter: Prof. 高杰, Jie (高能所)

Session Classification: CEPC-SppC Overview

Contribution ID: 25

Type: **not specified**

CEPC Detector CDR - status

Monday, November 6, 2017 9:50 AM (20 minutes)

Presenter: JOAO GUIMARAES COSTA

Session Classification: CEPC-SppC Overview

Contribution ID: 26

Type: **not specified**

SppC CDR - status

Monday, November 6, 2017 10:10 AM (20 minutes)

Presenter: Prof. TANG, Jingyu (IHEP, CAS)

Session Classification: CEPC-SppC Overview

Contribution ID: 27

Type: **not specified**

CEPC-SppC infrastructure –status & plan

Monday, November 6, 2017 11:00 AM (25 minutes)

Presenter: Mr LIN, Guoping (通用运行部)

Session Classification: CEPC-SppC Development and R&D

Contribution ID: 28

Type: **not specified**

CEPC R&D highlights –status and plan

Monday, November 6, 2017 11:25 AM (25 minutes)

Presenter: Prof. CHI, Yunlong (Institute of High Energy Physics, Chinese Academy of Sciences, P.R. China)

Session Classification: CEPC-SppC Development and R&D

Contribution ID: 29

Type: **not specified**

SppC super conducting magnet –status and plan

Monday, November 6, 2017 11:50 AM (25 minutes)

Presenter: Dr XU, Qingjin (高能所)

Session Classification: CEPC-SppC Development and R&D

Contribution ID: **30**

Type: **not specified**

The ILC

Monday, November 6, 2017 2:45 PM (25 minutes)

Presenter: YAMAMOTO, Akira (KEK)

Session Classification: International Initiatives

Contribution ID: **31**

Type: **not specified**

CERN roadmap and FCC

Monday, November 6, 2017 3:10 PM (25 minutes)

Presenter: Dr MANGANO, Michelangelo (CERN)

Session Classification: International Initiatives

Contribution ID: 32

Type: **not specified**

Italian & INFN activities towards future colliders

Contribution ID: 33

Type: **not specified**

American activities on future colliders

Monday, November 6, 2017 3:35 PM (25 minutes)

Presenter: YOUNG, Charles (SLAC)

Session Classification: International Initiatives

Contribution ID: 34

Type: **not specified**

CEPC International collaboration

Presenter: Prof. GAO, Yuanning (Tsinghua University)

Contribution ID: 38

Type: **not specified**

Tracking in 4 dimensions

In this contribution we will present the progresses toward the construction of a silicon tracking system able to measure the passage of charged particles with a combined precision of ~ 10 ps and ~ 10 μm , either using a single type of sensor, able to concurrently measure position and time, or a combination of position and time sensors.

The recent development of controlled multiplications in Low-Gain Avalanche Detectors (LGAD) has opened up the possibility of manufacturing silicon detectors with signal larger than that of traditional sensors, but with still very low noise, therefore enabling precision time measurements. The basic mechanism of LGAD is to obtain charge multiplication within the bulk of a silicon sensor by adding a thin multiplication layer just underneath the p-n junction.

The inclusion of timing information in the structure of a recorded event has the capability of changing the way we design experiments, as this added dimension dramatically improves the reconstruction process. Depending on the type of sensors that will be used, timing information can be available at different stages in the reconstruction of an event, for example (i) at tracking reconstruction, if timing is associated to each point or (ii) during the event reconstruction, if timing information is associated to each track.

We will first review the current LGAD manufacturing schemes, the results obtained at beam tests, than the mitigation techniques implemented to built radiation hard LGAD sensors, and finally how 4D tracking is being included in future experiments and its impact in the reconstruction of physics quantities. We will also present the research and development of the LGAD read-out electronics, showing the current best limits and reviewing the possible technological choices currently developed.

Primary author: STAIANO, Amedeo (INFN Torino)

Presenter: STAIANO, Amedeo (INFN Torino)

Contribution ID: 41

Type: **not specified**

CEPC Physics CDR - status

Monday, November 6, 2017 9:05 AM (20 minutes)

Presenter: WANG, Liantao (University of Chicago)

Session Classification: CEPC-SppC Overview

Contribution ID: 42

Type: **not specified**

Full silicon detector CEPC detector concept

Monday, November 6, 2017 4:50 PM (20 minutes)

Presenter: Dr YAO, Weiming (LBNL)

Session Classification: Detector & Physics I (detector concepts and system aspects)

Contribution ID: 43

Type: **not specified**

CMS experience with HGCAL

Monday, November 6, 2017 5:50 PM (20 minutes)

Presenter: BELLONI, Alberto (University of Maryland)

Session Classification: Detector & Physics I (detector concepts and system aspects)

Contribution ID: 44

Type: **not specified**

Status of the CEPC magnet R&D

Monday, November 6, 2017 4:30 PM (20 minutes)

Presenter: Mr ZHU, Zian (高能所)

Session Classification: Detector & Physics I (detector concepts and system aspects)

Contribution ID: 45

Type: **not specified**

A second detector proposal for CEPC

Monday, November 6, 2017 5:10 PM (20 minutes)

Presenters: BEDESCHI, Franco (INFN); BEDESCHI, Franco (INFN)

Session Classification: Detector & Physics I (detector concepts and system aspects)

Contribution ID: 46

Type: **not specified**

Advanced DAQ systems for current and future colliders

Monday, November 6, 2017 6:10 PM (20 minutes)

Presenter: Prof. LIU, Zhen An (IHEP)

Session Classification: Detector & Physics I (detector concepts and system aspects)

Contribution ID: 47

Type: **not specified**

The CLIC-inspired FCCee detector

Monday, November 6, 2017 5:30 PM (20 minutes)

Presenter: VIAZLO, Oleksandr (CERN)

Session Classification: Detector & Physics I (detector concepts and system aspects)

Contribution ID: 48

Type: **not specified**

CEPC accelerator physics

Monday, November 6, 2017 4:30 PM (20 minutes)

Presenter: Mr YU, Chenghui (Institute of High Energy Physics)

Session Classification: CEPC I

Contribution ID: 49

Type: **not specified**

CEPC parameter optimization and lattice design

Monday, November 6, 2017 4:50 PM (20 minutes)

Presenter: Dr 王, 逗 (高能所)

Session Classification: CEPC I

Contribution ID: 50

Type: **not specified**

CEPC lattice design and DA optimization

Monday, November 6, 2017 5:10 PM (20 minutes)

Presenter: Mr WANG, Yi Wei (高能所)

Session Classification: CEPC I

Contribution ID: 51

Type: **not specified**

CEPC beam-beam study and dynamic aperture study

Monday, November 6, 2017 5:30 PM (20 minutes)

Presenter: Dr ZHANG, Yuan (IHEP, Beijing)

Session Classification: CEPC I

Contribution ID: 52

Type: **not specified**

FCC-ee dynamic aperture with strong radiation

Monday, November 6, 2017 5:50 PM (20 minutes)

Presenter: Dr BOGOMYAGKOV, Anton (BINP)

Session Classification: CEPC I

Contribution ID: 53

Type: **not specified**

FCC-ee beam energy calibration by J/psi production with the help of small energy e+e- collider

Monday, November 6, 2017 6:10 PM (20 minutes)

Presenter: Dr NIKITIN, Sergei (Budker Institute of Nuclear Physics)

Session Classification: CEPC I

Contribution ID: 54

Type: **not specified**

SppC general progress

Monday, November 6, 2017 4:30 PM (20 minutes)

Presenter: Prof. TANG, Jingyu (IHEP, CAS)

Session Classification: SppC IV

Contribution ID: 55

Type: **not specified**

Lattice design progress

Monday, November 6, 2017 4:50 PM (20 minutes)

Presenter: CHEN, Yukai

Session Classification: SppC IV

Contribution ID: 56

Type: **not specified**

Progress in collimation studies

Monday, November 6, 2017 5:10 PM (10 minutes)

Presenter: YANG, Jianquan

Session Classification: SppC IV

Contribution ID: 57

Type: **not specified**

Beam-beam effects in SPPC and future hadron colliders

Monday, November 6, 2017 5:20 PM (20 minutes)

Presenter: Dr OHMI, Kazuhito (KEK)

Session Classification: SppC IV

Contribution ID: 58

Type: **not specified**

Beam-beam Studies in Future Circular Hadron Colliders

Monday, November 6, 2017 5:40 PM (20 minutes)

Presenter: PIELONI, Tatiana (EPF Lausanne)

Session Classification: SppC IV

Contribution ID: 59

Type: **not specified**

Beam-beam weak strong simulations for LHC and HL-LHC

Monday, November 6, 2017 6:00 PM (20 minutes)

Presenter: Dr KARASTATHIS, Nikolaos (CERN)

Session Classification: SppC IV

Contribution ID: **60**

Type: **not specified**

Injection and Extraction

Presenter: Dr ZHANG, Ye (IHEP)

Contribution ID: **61**

Type: **not specified**

EFT at ILC (fits and triple Higgs)

Monday, November 6, 2017 4:30 PM (24 minutes)

Presenters: JUNG, Sunghoon (Seoul National University); JUNG, Sunghoon (KIAS)

Session Classification: Theory I

Contribution ID: **62**

Type: **not specified**

EFT fits

Monday, November 6, 2017 4:54 PM (24 minutes)

Presenter: Dr GU, Jiayin (CFHEP, IHEP)

Session Classification: Theory I

Contribution ID: 63

Type: **not specified**

Testing multi-Higgs and composite Higgs models

Monday, November 6, 2017 5:18 PM (24 minutes)

Presenter: Prof. SU, Shufang (University of Arizona)

Session Classification: Theory I

Contribution ID: 64

Type: **not specified**

Higgs-top quark coupling

Monday, November 6, 2017 5:42 PM (24 minutes)

Presenter: Dr LIU, Zhen

Session Classification: Theory I

Contribution ID: 65

Type: **not specified**

Implication of Future Higgs Factory precision on MSSM

Monday, November 6, 2017 6:06 PM (24 minutes)

Presenter: Dr SU, Wei (ITP)

Session Classification: Theory I

Contribution ID: **66**

Type: **not specified**

Higgs rare decays

Tuesday, November 7, 2017 8:00 AM (24 minutes)

Presenter: ZHANG, HAO (Institute of High Energy Physics, Chinese Academy of Sciences)

Session Classification: Theory II

Contribution ID: 67

Type: **not specified**

Top partners with Higgs measurement

Tuesday, November 7, 2017 8:24 AM (24 minutes)

Presenter: Prof. HARI, Ramani (Stony Brook)

Session Classification: Theory II

Contribution ID: **68**

Type: **not specified**

Electroweak Phase Transition

Tuesday, November 7, 2017 8:48 AM (24 minutes)

Presenter: Prof. LONG, Andrew (Chicago)

Session Classification: Theory II

Contribution ID: **69**

Type: **not specified**

Dark photon

Tuesday, November 7, 2017 11:42 AM (24 minutes)

Presenter: YU, Felix (Johannes Gutenberg University of Mainz)

Session Classification: Theory III

Contribution ID: 70

Type: **not specified**

Rare Z decays

Tuesday, November 7, 2017 12:06 PM (24 minutes)

Presenter: Dr LIU, Jia (Chicago)

Session Classification: Theory III

Contribution ID: 71

Type: **not specified**

CEPC 100km Booster design

Tuesday, November 7, 2017 8:00 AM (15 minutes)

Presenter: BIAN TIANJIAN

Session Classification: CEPC II

Contribution ID: 72

Type: **not specified**

CEPC Injection/extraction and timing

Tuesday, November 7, 2017 8:15 AM (15 minutes)

Presenter: Mr CUI, Xiaohao (Accelerator Center)

Session Classification: CEPC II

Contribution ID: 73

Type: **not specified**

CEPC collective instabilities

Tuesday, November 7, 2017 8:30 AM (15 minutes)

Presenter: Ms WANG, Na (高能所)

Session Classification: CEPC II

Contribution ID: 74

Type: **not specified**

CEPC MDI

Tuesday, November 7, 2017 8:45 AM (20 minutes)

Presenter: Dr BAI, Sha (高能所)

Session Classification: CEPC II

Contribution ID: 75

Type: **not specified**

CEPC injector Linac beam dynamics

Tuesday, November 7, 2017 9:05 AM (15 minutes)

Presenter: Mr MENG, Cai (高能所)

Session Classification: CEPC II

Contribution ID: 76

Type: **not specified**

Alternative injection possibilities for CEPC

Tuesday, November 7, 2017 9:20 AM (20 minutes)

Presenter: Dr SEEMAN, John (SLAC National Accelerator Laboratory)

Session Classification: CEPC II

Contribution ID: 77

Type: **not specified**

CEPC injector based on plasma based accelerator

Tuesday, November 7, 2017 9:40 AM (20 minutes)

Presenter: Dr LU, Wei (Tsinghua University)

Session Classification: CEPC II

Contribution ID: 78

Type: **not specified**

Status report from Vertex Detector group

Tuesday, November 7, 2017 8:00 AM (20 minutes)

Presenter: Prof. OUYANG, Qun (IHEP)

Session Classification: Detector& Physics II(Silicon vertex detector & tracker)

Contribution ID: 79

Type: **not specified**

Alpide and other developments

Tuesday, November 7, 2017 9:00 AM (20 minutes)

Presenter: Prof. SNOEYS, Walter

Session Classification: Detector& Physics II(Silicon vertex detector & tracker)

Contribution ID: **80**

Type: **not specified**

Pixel sensor technologies for the CEPC

Tuesday, November 7, 2017 8:20 AM (20 minutes)

Presenter: Prof. GRINSTEIN, Sebastian (Barcelona)

Session Classification: Detector& Physics II(Silicon vertex detector & tracker)

Contribution ID: **81**

Type: **not specified**

Tracking in four dimensions

Tuesday, November 7, 2017 9:40 AM (20 minutes)

Presenter: STAIANO, Amedeo (I)

Session Classification: Detector& Physics II(Silicon vertex detector & tracker)

Contribution ID: **82**

Type: **not specified**

Overview of SOI development

Tuesday, November 7, 2017 9:20 AM (20 minutes)

Presenter: Dr LU, Yunpeng (Institute of High Energy Physics, CAS)

Session Classification: Detector& Physics II(Silicon vertex detector & tracker)

Contribution ID: 83

Type: **not specified**

CMOS Pixel Sensors for ILC Related Vertexing & Tracking Device

Tuesday, November 7, 2017 8:40 AM (20 minutes)

Presenters: HU-GUO, Christine (I); Dr HU-GUO, Christine (IPHC-IN2P3/CNRS, UDS)

Session Classification: Detector& Physics II(Silicon vertex detector & tracker)

Contribution ID: 84

Type: **not specified**

Status and progress report from CEPC TPC tracker detector group

Tuesday, November 7, 2017 8:30 AM (30 minutes)

Primary author: Dr QI, Huirong (Institute of High Energy Physics, CAS)

Presenter: Dr QI, Huirong (Institute of High Energy Physics, CAS)

Session Classification: Detector & Physics III (Gaseous detectors)

Contribution ID: 85

Type: **not specified**

CEPC TPC dE/dx Performance Studies

Tuesday, November 7, 2017 9:00 AM (20 minutes)

Presenter: Prof. PRELL, Soeren (Iowa State University)

Session Classification: Detector & Physics III (Gaseous detectors)

Contribution ID: 86

Type: **not specified**

An ultra-light drift chamber with particle identification capabilities

Tuesday, November 7, 2017 9:20 AM (30 minutes)

Presenter: Prof. GRANCAGNOLO, Franco

Session Classification: Detector & Physics III (Gaseous detectors)

Contribution ID: 87

Type: **not specified**

Muon detector options for CEPC

Tuesday, November 7, 2017 9:50 AM (30 minutes)

Presenter: Prof. LI, Liang (Shanghai Jiao Tong University)

Session Classification: Detector & Physics III (Gaseous detectors)

Contribution ID: **88**

Type: **not specified**

MPGD overview

Tuesday, November 7, 2017 8:00 AM (30 minutes)

Presenter: Prof. OCHI, Atsuhiko

Session Classification: Detector & Physics III (Gaseous detectors)

Contribution ID: **89**

Type: **not specified**

Theoretical considerations of Z-pole fits

Tuesday, November 7, 2017 10:30 AM (24 minutes)

Presenter: Prof. HEINEMEYER, Sven (Madrid)

Session Classification: Theory III

Contribution ID: **90**

Type: **not specified**

Probing new physics, complementarity with Higgs

Tuesday, November 7, 2017 11:18 AM (24 minutes)

Presenter: Prof. REECE, Matthew Reece (Harvard Univ.)

Session Classification: Theory III

Contribution ID: **91**

Type: **not specified**

Multi-Higgs models beyond Tree Level

Tuesday, November 7, 2017 9:36 AM (24 minutes)

Presenter: CHIANG, Cheng-Wei (D)

Session Classification: Theory II

Contribution ID: 92

Type: **not specified**

Higgs decay with displaced vertices

Tuesday, November 7, 2017 9:12 AM (24 minutes)

Presenter: Prof. CRAIG, Nathaniel (UCSB)

Session Classification: Theory II

Contribution ID: 93

Type: **not specified**

Neutrino connection

Tuesday, November 7, 2017 10:54 AM (24 minutes)

Presenter: DREWES, Marco (Université catholique de Louvain)

Session Classification: Theory III

Contribution ID: 94

Type: **not specified**

CEPC SRF system study

Tuesday, November 7, 2017 10:30 AM (20 minutes)

Presenter: Mr ZHAI, Jiyuan (IHEP)

Session Classification: CEPC III

Contribution ID: 95

Type: **not specified**

Steady State Analysis for the Beam Loading Transient Stability in the Storage Ring RF System

Tuesday, November 7, 2017 10:50 AM (20 minutes)

Presenter: Dr WANG, Haipeng (JLAB)

Session Classification: CEPC III

Contribution ID: 96

Type: **not specified**

Beam loading and coupled-bunch instabilities from a large ring perspective

Tuesday, November 7, 2017 11:10 AM (20 minutes)

Presenter: Dr TEYTELMAN, Dmitry (Dimtel)

Session Classification: CEPC III

Contribution ID: 97

Type: **not specified**

CEPC RF power source

Tuesday, November 7, 2017 11:30 AM (20 minutes)

Presenter: Dr ZHOU, Zusheng (高能所)

Session Classification: CEPC III

Contribution ID: **98**

Type: **not specified**

CEPC Cryogenic system

Tuesday, November 7, 2017 11:50 AM (20 minutes)

Presenter: Dr ZHANG, Jianqin (IHEP)

Session Classification: CEPC III

Contribution ID: 99

Type: **not specified**

CEPC Vaccum chamber system

Tuesday, November 7, 2017 12:10 PM (20 minutes)

Presenter: Mr DONG, Haiyi (Accelerator Center, IHEP)

Session Classification: CEPC III

Contribution ID: **100**

Type: **not specified**

CEPC ECAL R&D Status

Tuesday, November 7, 2017 10:30 AM (20 minutes)

Presenter: Dr ZHANG, Yunlong (University of Science and Technology of China)

Session Classification: Detector & Physics IV (Calorimeter)

Contribution ID: **101**

Type: **not specified**

CEPC HCAL R&D Status

Tuesday, November 7, 2017 10:50 AM (20 minutes)

Presenter: Dr YU, Boxiang (高能所)

Session Classification: Detector & Physics IV (Calorimeter)

Contribution ID: **102**

Type: **not specified**

CALICE SiW status

Tuesday, November 7, 2017 11:10 AM (20 minutes)

Presenter: Prof. BRIENT, Jean-Claude (LLR)

Session Classification: Detector & Physics IV (Calorimeter)

Contribution ID: **103**

Type: **not specified**

CALICE SDHCAL status

Tuesday, November 7, 2017 11:30 AM (20 minutes)

Presenters: Prof. YANG, Haijun (Shanghai Jiao Tong University); Prof. YANG, Haijun (Shanghai Jiao Tong University); YANG, Haijun (Shanghai Jiao Tong University)

Session Classification: Detector & Physics IV (Calorimeter)

Contribution ID: **104**

Type: **not specified**

Dual Readout Calorimeter at the CEPC

Tuesday, November 7, 2017 11:50 AM (20 minutes)

Presenter: FERRARI, Roberto (INFN)

Session Classification: Detector & Physics IV (Calorimeter)

Contribution ID: **105**

Type: **not specified**

Alternative calorimeter ideas

Tuesday, November 7, 2017 12:10 PM (20 minutes)

Presenter: Prof. ZHAO, Tianchi (U. of Washinton)

Session Classification: Detector & Physics IV (Calorimeter)

Contribution ID: **106**

Type: **not specified**

Precision test of QCD

Tuesday, November 7, 2017 2:00 PM (24 minutes)

Presenter: Dr ZHU, HuaXing (SLAC National Accelerator Laboratory)

Session Classification: Theory IV

Contribution ID: **107**

Type: **not specified**

NLO for Higgs production

Tuesday, November 7, 2017 3:36 PM (24 minutes)

Presenter: Dr JIA, Yu (IHEP)

Session Classification: Theory IV

Contribution ID: **108**

Type: **not specified**

Whizard Simulation for $e^+ e^-$

Tuesday, November 7, 2017 2:48 PM (24 minutes)

Presenter: Dr KILLIAN, Wolfgang (Siegen)

Session Classification: Theory IV

Contribution ID: **109**

Type: **not specified**

Quarkonium physics

Tuesday, November 7, 2017 3:12 PM (24 minutes)

Presenter: Prof. QIU, Jianwei (Brookhaven National Lab)

Session Classification: Theory IV

Contribution ID: **110**

Type: **not specified**

Aspects of Flavor physics at CEPC

Tuesday, November 7, 2017 2:24 PM (24 minutes)

Presenter: Dr QIN, Qin (Uni. Siegen)

Session Classification: Theory IV

Contribution ID: **111**

Type: **not specified**

CEPC magnets

Tuesday, November 7, 2017 2:00 PM (20 minutes)

Presenter: Dr CHEN, Fusan (Institute of High Energy Physics, CAS)

Session Classification: CEPC IV

Contribution ID: 112

Type: **not specified**

CEPC power source and electrostatic separator

Tuesday, November 7, 2017 2:20 PM (20 minutes)

Presenter: Mr CHEN, Bin (高能所)

Session Classification: CEPC IV

Contribution ID: 113

Type: **not specified**

CEPC final focus SC magnets and anti-solenoid designs

Tuesday, November 7, 2017 2:40 PM (20 minutes)

Presenter: ZHU, Yingshun

Session Classification: CEPC IV

Contribution ID: **114**

Type: **not specified**

FCC-ee final focus magnetic field study and optimization

Tuesday, November 7, 2017 3:00 PM (20 minutes)

Presenter: SINYATKIN, Sergey (BINP)

Session Classification: CEPC IV

Contribution ID: 115

Type: **not specified**

Radiation shielding

Tuesday, November 7, 2017 3:20 PM (20 minutes)

Presenter: Dr DING, Yadong (高能所)

Session Classification: CEPC IV

Contribution ID: 116

Type: **not specified**

CEPC mechanics and tunnel design

Tuesday, November 7, 2017 3:40 PM (20 minutes)

Presenter: Ms WANG, Haijing (IHEP)

Session Classification: CEPC IV

Contribution ID: 117

Type: **not specified**

Introduction (interaction region, magnets, etc.)

Tuesday, November 7, 2017 4:30 PM (25 minutes)

Presenter: Mr YU, Chenghui (Institute of High Energy Physics)

Session Classification: MDI (joint detector and accelerator) I

Contribution ID: **118**

Type: **not specified**

Radiation backgrounds at CEPC

Tuesday, November 7, 2017 4:55 PM (20 minutes)

Presenter: Dr ZHU, Hongbo (IHEP)

Session Classification: MDI (joint detector and accelerator) I

Contribution ID: **119**

Type: **not specified**

MDI at SuperKEKB

Tuesday, November 7, 2017 5:15 PM (20 minutes)

Presenter: Mr LEWIS, Peter (Hawaii U.)

Session Classification: MDI (joint detector and accelerator) I

Contribution ID: **120**

Type: **not specified**

Overview of LC FCAL

Tuesday, November 7, 2017 5:35 PM (20 minutes)

Presenter: Prof. BOZOVIC, Ivanka (VINCA)

Session Classification: MDI (joint detector and accelerator) I

Contribution ID: **121**

Type: **not specified**

LumiCal at CEPC

Tuesday, November 7, 2017 5:55 PM (20 minutes)

Presenter: Dr HOU, Suen (SINICA)

Session Classification: MDI (joint detector and accelerator) I

Contribution ID: 122

Type: **not specified**

US Magnet Development Program

Tuesday, November 7, 2017 11:10 AM (20 minutes)

Presenter: Prof. PRESTEMON, Soren (LBNL)

Session Classification: SppC II

Contribution ID: **123**

Type: **not specified**

FCC magnet study

Tuesday, November 7, 2017 10:30 AM (20 minutes)

Presenter: Prof. TOMMASINI, David (CERN)

Session Classification: SppC II

Contribution ID: 124

Type: **not specified**

IBS superconductor R&D and plan

Tuesday, November 7, 2017 10:50 AM (20 minutes)

Presenter: Prof. MA, Yanwei (IEE)

Session Classification: SppC II

Contribution ID: 125

Type: **not specified**

HTS magnet R&D at BNL

Tuesday, November 7, 2017 11:50 AM (20 minutes)

Presenter: GUPTA, Ramesh (Brookhaven National Laboratory)

Session Classification: SppC II

Contribution ID: 126

Type: **not specified**

Advanced superconductor development at WST

Tuesday, November 7, 2017 11:30 AM (20 minutes)

Presenter: Mr LI, Jianfeng (WST)

Session Classification: SppC II

Contribution ID: 127

Type: **not specified**

LHC magnet experience

Presenter: Prof. TODESCO, Ezio (CERN)

Contribution ID: 128

Type: **not specified**

Longitudinal beam dynamics for the accelerator chain

Tuesday, November 7, 2017 2:20 PM (20 minutes)

Presenter: Prof. ZHANG, Linhao (IHEP)

Session Classification: SppC III

Contribution ID: **129**

Type: **not specified**

CEPC-SPPC ep collision parameters

Tuesday, November 7, 2017 2:00 PM (20 minutes)

Presenters: PENG, Yuemei (高能所); Dr ZHANG, Yuhong (Thomas Jefferson National Accelerator Facility)

Session Classification: SppC III

Contribution ID: **130**

Type: **not specified**

Cryogenic temperature for SPPC

Tuesday, November 7, 2017 3:00 PM (20 minutes)

Presenter: Prof. KRASNOV, Alexander (BINP)

Session Classification: SppC III

Contribution ID: **131**

Type: **not specified**

Beam screen study

Tuesday, November 7, 2017 3:20 PM (20 minutes)

Presenter: Dr ZHU, kun (Peking university)

Session Classification: SppC III

Contribution ID: 132

Type: **not specified**

Injector chain design update

Tuesday, November 7, 2017 3:40 PM (20 minutes)

Presenter: Prof. LU, Yuanrong (PKU)

Session Classification: SppC III

Contribution ID: 133

Type: **not specified**

New method to measure Higgs boson mass at e+e- collider

Tuesday, November 7, 2017 3:40 PM (20 minutes)

Presenter: Dr TIAN, Junping

Session Classification: Detector & Physics V (Simulation)

Contribution ID: 134

Type: **not specified**

Computing at CEPC

Tuesday, November 7, 2017 3:00 PM (20 minutes)

Presenter: Mr ZHAO, Xianghu (IHEP)

Session Classification: Detector & Physics V (Simulation)

Contribution ID: 135

Type: **not specified**

Jet energy scale and resolution

Tuesday, November 7, 2017 2:20 PM (20 minutes)

Presenter: Mr LAI, Peizhu (NCU)

Session Classification: Detector & Physics V (Simulation)

Contribution ID: 136

Type: **not specified**

Machine Learning at CEPC

Tuesday, November 7, 2017 3:20 PM (20 minutes)

Presenter: Prof. YANG, Fan (XMU)

Session Classification: Detector & Physics V (Simulation)

Contribution ID: 137

Type: **not specified**

Fast Simulation for CEPC

Tuesday, November 7, 2017 2:00 PM (20 minutes)

Presenter: Dr LI, Gang (EPD, IHEP, CAS)

Session Classification: Detector & Physics V (Simulation)

Contribution ID: 138

Type: **not specified**

Beam Energy monitoring via Compton Scattering

Tuesday, November 7, 2017 2:40 PM (20 minutes)

Presenter: Mr TANG, Guangyi (高能所)

Session Classification: Detector & Physics V (Simulation)

Contribution ID: 139

Type: **not specified**

HI-LHC & challenge for CEPC - Higgs

Tuesday, November 7, 2017 4:30 PM (20 minutes)

Presenter: DE FILIPPIS, Nicola (Politecnico and INFN Bari)

Session Classification: Detector & Physics (joint with theory) VI

Contribution ID: 140

Type: **not specified**

HL-LHC & challenge for CEPC - EWK

Tuesday, November 7, 2017 4:50 PM (20 minutes)

Presenter: Prof. AZZURRI, Paolo (INFN Pisa)

Session Classification: Detector & Physics (joint with theory) VI

Contribution ID: **141**

Type: **not specified**

Combination of CEPC Higgs precision measurement

Tuesday, November 7, 2017 5:30 PM (20 minutes)

Presenter: Mr ZHANG, Kaili (IHEP)

Session Classification: Detector & Physics (joint with theory) VI

Contribution ID: 142

Type: **not specified**

Study of the CEPC Higgs decaying into two photons

Tuesday, November 7, 2017 5:10 PM (20 minutes)

Presenter: Ms ZHANG, Zhenyu (WHU)

Session Classification: Detector & Physics (joint with theory) VI

Contribution ID: 143

Type: **not specified**

Long lived particles

Tuesday, November 7, 2017 5:50 PM (20 minutes)

Presenter: Prof. BEACHAM, James (OSU)

Session Classification: Detector & Physics (joint with theory) VI

Contribution ID: 144

Type: **not specified**

Progress of 2G HTS wires development in Shanghai superconductor

Tuesday, November 7, 2017 12:10 PM (20 minutes)

Presenter: Dr YUE, Zhao (SSTC)

Session Classification: SppC II

Contribution ID: 145

Type: **not specified**

Transverse beam stability and Landau damping in hadron colliders

Tuesday, November 7, 2017 2:40 PM (20 minutes)

Presenter: TAMBASCO, Claudia (Ecole polytechnique fédérale de lausanne (EPFL))

Session Classification: SppC III

Contribution ID: 146

Type: **not specified**

IB Meeting

Monday, November 6, 2017 12:15 PM (1h 45m)

Presenter: Prof. GAO (THU), Yuanning

Contribution ID: **147**

Type: **not specified**

Conference photo

Monday, November 6, 2017 10:30 AM (10 minutes)

Contribution ID: 148

Type: **not specified**

Discussion on the cold bore temperature

Tuesday, November 7, 2017 4:30 PM (1h 45m)

Presenter: Prof. TANG, Jingyu (IHEP, CAS)

Session Classification: SppC IV

Contribution ID: 149

Type: **not specified**

New Physics in multi-Higgs boson final states

Tuesday, November 7, 2017 4:00 PM (15 minutes)

Presenter: ZHAO, Zhijie (University of Siegen)

Session Classification: Theory IV