

CEPC-SppC Study Group Meeting

Report of Contributions

Contribution ID: 0

Type: **not specified**

Picture & Tea break

Friday, 2 September 2016 10:30 (30 minutes)

Contribution ID: 1

Type: **not specified**

Lunch

Friday, 2 September 2016 12:00 (2 hours)

Contribution ID: 2

Type: **not specified**

Tea Break

Friday, 2 September 2016 16:05 (15 minutes)

Contribution ID: 3

Type: **not specified**

Banquet

Friday, 2 September 2016 19:00 (1h 20m)

Contribution ID: 4

Type: **not specified**

Free

Friday, 2 September 2016 18:00 (1 hour)

Contribution ID: 5

Type: **not specified**

Coffee Break

Saturday, 3 September 2016 10:00 (30 minutes)

Contribution ID: 6

Type: **not specified**

Lunch

Saturday, 3 September 2016 12:00 (2 hours)

Contribution ID: 7

Type: **not specified**

Steering Committee Meeting

Saturday, 3 September 2016 12:00 (2 hours)

Contribution ID: 8

Type: **not specified**

Tea Break

Saturday, 3 September 2016 16:00 (15 minutes)

Contribution ID: 9

Type: **not specified**

Dinner

Saturday, 3 September 2016 19:00 (1 hour)

Contribution ID: **10**

Type: **not specified**

Free

Saturday, 3 September 2016 18:20 (40 minutes)

Contribution ID: 11

Type: **not specified**

Opening address by President of BeiHang University

Contribution ID: 12

Type: **not specified**

Opening address by President of BUAA

Friday, 2 September 2016 08:30 (10 minutes)

Session Classification: Plenary Session I: Overview

Contribution ID: 13

Type: **not specified**

Introduction

Friday, 2 September 2016 08:40 (10 minutes)

Presenter: Prof. WANG, Yifang (IHEP)

Session Classification: Plenary Session I: Overview

Contribution ID: 14

Type: **not specified**

CEPC project overview & objectives

Friday, 2 September 2016 08:50 (20 minutes)

Presenter: Prof. LOU, Xinchou (IHEP)

Session Classification: Plenary Session I: Overview

Contribution ID: 15

Type: **not specified**

Progress and plan: CEPC accelerator

Friday, 2 September 2016 09:10 (20 minutes)

Presenter: Prof. GAO, Jie (IHEP)

Session Classification: Plenary Session I: Overview

Contribution ID: 16

Type: **not specified**

Progress and plan: Simulation & Detector

Friday, 2 September 2016 09:30 (20 minutes)

Presenter: Dr RUAN, Manqi (IHEP)

Session Classification: Plenary Session I: Overview

Contribution ID: 17

Type: **not specified**

Theory overview

Friday, 2 September 2016 09:50 (40 minutes)

Presenter: Prof. ARKANI-HAMED, Nima (IAS)

Session Classification: Plenary Session I: Overview

Contribution ID: **18**

Type: **not specified**

FCC status

Saturday, 3 September 2016 10:30 (30 minutes)

Presenter: Prof. AZZI, Patrizia (INFN/CERN)

Session Classification: Plenary Session I

Contribution ID: 19

Type: **not specified**

Panel discussion

Saturday, 3 September 2016 11:00 (1 hour)

Focus: CDR, R&D and International Collaboration

Presenter: Prof. LOU, Xinchou (IHEP)

Session Classification: Plenary Session I

Contribution ID: 20

Type: **not specified**

Theory

Saturday, 3 September 2016 14:00 (30 minutes)

Presenter: Prof. WANG, Liantao (University of Chicago)

Session Classification: Plenary Session II - Summary

Contribution ID: 21

Type: **not specified**

CEPC accelerator

Saturday, 3 September 2016 14:30 (30 minutes)

Presenter: Prof. GAO, Jie (IHEP)

Session Classification: Plenary Session II - Summary

Contribution ID: 22

Type: **not specified**

Physics+Detector

Saturday, 3 September 2016 15:00 (30 minutes)

Presenter: Prof. YANG, Haijun (SJTU)

Session Classification: Plenary Session II - Summary

Contribution ID: 23

Type: **not specified**

SppC accelerator

Saturday, 3 September 2016 15:30 (30 minutes)

Presenter: Prof. TANG, Jingyu (IHEP)

Session Classification: Plenary Session II - Summary

Contribution ID: 24

Type: **not specified**

CDR & MOST project planning discussion

Saturday, 3 September 2016 16:15 (50 minutes)

Presenter: Prof. GUIMARAES, Joao Barreiro (IHEP)

Session Classification: Plenary Session III - Discussion

Contribution ID: 25

Type: **not specified**

Discussion about international collaboration and upcoming IAC meeting

Saturday, 3 September 2016 17:05 (50 minutes)

Presenter: Dr QIN, Qing (IHEP)

Session Classification: Plenary Session III - Discussion

Contribution ID: 26

Type: **not specified**

IB report

Saturday, 3 September 2016 17:55 (10 minutes)

Session Classification: Plenary Session III - Discussion

Contribution ID: 27

Type: **not specified**

SC report

Saturday, 3 September 2016 18:05 (10 minutes)

Session Classification: Plenary Session III - Discussion

Contribution ID: 28

Type: **not specified**

Closing remarks

Saturday, 3 September 2016 18:15 (5 minutes)

Session Classification: Plenary Session III - Discussion

Contribution ID: 29

Type: **not specified**

Towards precision theoretical description on high energy phenomenology for CEPC—progress of FDC project

Friday, 2 September 2016 11:00 (25 minutes)

Presenter: Prof. WANG, Jianxiong (IHEP)

Session Classification: Parallel Session I

Contribution ID: 30

Type: **not specified**

Quarkonium production at CEPC

Friday, 2 September 2016 11:25 (25 minutes)

Presenter: Prof. MA, Yanqing (PKU)

Session Classification: Parallel Session I

Contribution ID: **31**

Type: **not specified**

Full silicon tracking studies for CEPC

Friday, 2 September 2016 11:00 (20 minutes)

Presenter: Dr YAO, Weiming (LBNL)

Session Classification: Parallel Session I

Contribution ID: **32**

Type: **not specified**

Vertex Status

Friday, 2 September 2016 11:20 (20 minutes)

Presenter: Prof. OUYANG, Qun (IHEP)

Session Classification: Parallel Session I

Contribution ID: 33

Type: **not specified**

TPC Status

Friday, 2 September 2016 11:40 (20 minutes)

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

Session Classification: Parallel Session I

Contribution ID: 34

Type: **not specified**

CEPC parameter optimization and lattice design

Friday, 2 September 2016 11:00 (20 minutes)

Presenter: Dr WANG, Dou

Session Classification: Parallel Session I

Contribution ID: 35

Type: **not specified**

CEPC crab-waist beam-beamstudy and dynamic aperture study

Friday, 2 September 2016 11:20 (20 minutes)

Presenter: Dr ZHANG, Yuan (IHEP, Beijing)

Session Classification: Parallel Session I

Contribution ID: **36**

Type: **not specified**

CEPC dynamic aperture optimization

Friday, 2 September 2016 11:40 (20 minutes)

Presenter: Dr WANG, Yiwei

Session Classification: Parallel Session I

Contribution ID: 37

Type: **not specified**

Double parton scatterings at the 100 TeV SppC

Friday, 2 September 2016 14:00 (25 minutes)

Presenter: Prof. CAO, Qinghong (PKU)

Session Classification: Parallel Session II

Contribution ID: 38

Type: **not specified**

Exploration of the structure of the Higgs boson coupling to weak bosons in e^+e^- collisions

Presenter: Prof. GARCIA, Bruce Mellado (University of the Witwatersrand)

Contribution ID: 39

Type: **not specified**

Precision Higgs production

Friday, 2 September 2016 14:25 (25 minutes)

Presenter: Prof. YANG, Lilin (PKU)

Session Classification: Parallel Session II

Contribution ID: 40

Type: **not specified**

CEPC and degenerate electroweakino

Friday, 2 September 2016 14:50 (25 minutes)

Presenter: Prof. SHU, Jing (ITP)

Session Classification: Parallel Session II

Contribution ID: 41

Type: **not specified**

Searching exotic Higgs decay at CEPC

Friday, 2 September 2016 15:15 (25 minutes)

Presenter: Dr ZHANG, Hao (IHEP)

Session Classification: Parallel Session II

Contribution ID: 42

Type: **not specified**

PID Status

Friday, 2 September 2016 14:00 (15 minutes)

Presenter: Dr ZHANG, Zhiyong (USTC)

Session Classification: Parallel Session II

Contribution ID: 43

Type: **not specified**

ECAL Status

Friday, 2 September 2016 14:15 (15 minutes)

Presenter: Dr ZHANG, Yunlong (USTC)

Session Classification: Parallel Session II

Contribution ID: 44

Type: **not specified**

HCAL Status

Friday, 2 September 2016 14:30 (15 minutes)

Presenter: Dr LIU, Qian (UCAS)

Session Classification: Parallel Session II

Contribution ID: 45

Type: **not specified**

High rate high granuarity GRPC SDHCAL

Friday, 2 September 2016 14:45 (15 minutes)

Presenter: Prof. WANG, Yi (Tsinghua University)

Session Classification: Parallel Session II

Contribution ID: 46

Type: **not specified**

questions+discussions for CEPC HCAL

Friday, 2 September 2016 15:00 (5 minutes)

Session Classification: Parallel Session II

Contribution ID: 47

Type: **not specified**

Magnet Status

Friday, 2 September 2016 15:05 (15 minutes)

Presenter: Dr ZHAO, Ling (IHEP)

Session Classification: Parallel Session II

Contribution ID: 48

Type: **not specified**

Understanding the performance of a highly granular Si Pad ECAL for CEPC

Friday, 2 September 2016 15:20 (20 minutes)

Presenter: Prof. PAGANIS, Stathes (National Taiwan University)

Session Classification: Parallel Session II

Contribution ID: 49

Type: **not specified**

Research and Development on Signal Detection and Data Readout LSI

Friday, 2 September 2016 15:40 (20 minutes)

Presenter: Prof. LI, Lianming

Session Classification: Parallel Session II

Contribution ID: 50

Type: **not specified**

CEPC main ring lattice design

Friday, 2 September 2016 14:00 (17 minutes)

Presenter: Dr SU, Feng (IHEP)

Session Classification: Parallel Session II

Contribution ID: 51

Type: **not specified**

CEPC pretzel scheme study

Friday, 2 September 2016 14:17 (17 minutes)

Presenter: Dr GENG, Huiping (IHEP)

Session Classification: Parallel Session II

Contribution ID: 52

Type: **not specified**

CEPC main ring magnets' error effect on DA and MDI issues

Friday, 2 September 2016 14:34 (17 minutes)

Presenter: Dr BAI, Sha (IHEP)

Session Classification: Parallel Session II

Contribution ID: 53

Type: **not specified**

CEPC main ring collective instability study

Friday, 2 September 2016 14:51 (17 minutes)

Presenter: Dr WANG, Na (IHEP)

Session Classification: Parallel Session II

Contribution ID: 54

Type: **not specified**

CEPC booster design and main ring study

Friday, 2 September 2016 15:08 (17 minutes)

Presenter: Dr BIAN, Tianjian (IHEP)

Session Classification: Parallel Session II

Contribution ID: 55

Type: **not specified**

CEPC SRF system study

Friday, 2 September 2016 15:25 (17 minutes)

Presenter: Dr ZHAI, Jiyuan (IHEP)

Session Classification: Parallel Session II

Contribution ID: 56

Type: **not specified**

CEPC Niobium dopping study

Friday, 2 September 2016 15:42 (18 minutes)

Presenter: Dr SHA, Peng (IHEP)

Session Classification: Parallel Session II

Contribution ID: 57

Type: **not specified**

Beam Collimation

Friday, 2 September 2016 14:00 (20 minutes)

Presenter: Dr ZOU, Ye (IHEP)

Session Classification: Parallel Session II

Contribution ID: 58

Type: **not specified**

Lattice for Collimation

Friday, 2 September 2016 14:20 (15 minutes)

Presenter: Dr YANG, Jianquan (IHEP)

Session Classification: Parallel Session II

Contribution ID: 59

Type: **not specified**

Collective Instabilities

Friday, 2 September 2016 14:35 (20 minutes)

Presenter: Dr LIU, Yudong (IHEP)

Session Classification: Parallel Session II

Contribution ID: **60**

Type: **not specified**

Injection and Extraction

Friday, 2 September 2016 14:55 (20 minutes)

Presenters: Dr LI, Guangrui (IHEP); Dr ZHENG, Xuxing (IHEP)

Session Classification: Parallel Session II

Contribution ID: **61**

Type: **not specified**

Injector Chain

Friday, 2 September 2016 15:15 (15 minutes)

Presenter: Prof. TANG, Jingyu (IHEP)

Session Classification: Parallel Session II

Contribution ID: 62

Type: **not specified**

Searching for dark matter at future high energy colliders

Friday, 2 September 2016 16:25 (25 minutes)

Presenter: Dr YIN, Pengfei (IHEP)

Session Classification: Parallel Session III

Contribution ID: 63

Type: **not specified**

New physics for neutrinoless double beta decay

Friday, 2 September 2016 16:50 (20 minutes)

Presenter: Prof. GU, Peihong (SJTU)

Session Classification: Parallel Session III

Contribution ID: 64

Type: **not specified**

Discovery potential of Higgs boson pair production through 4 lepton modes at a 100 TeV collider

Friday, 2 September 2016 17:10 (25 minutes)

Presenter: Prof. YAN, Qishu (UCAS)

Session Classification: Parallel Session III

Contribution ID: 65

Type: **not specified**

Measure the Shape of Effective Higgs Theory at an Electron-Positron Collider

Friday, 2 September 2016 17:35 (25 minutes)

Presenter: Prof. LIU, Tao (HKUST)

Session Classification: Parallel Session III

Contribution ID: **66**

Type: **not specified**

Physics simulations and SW tools

Friday, 2 September 2016 16:20 (20 minutes)

Presenter: Prof. AZZI, Patrizia (INFN/CERN)

Session Classification: Parallel Session III

Contribution ID: 67

Type: **not specified**

Pixels and short strips

Friday, 2 September 2016 16:40 (20 minutes)

Presenter: Dr CACCIA, Massimo (INFN)

Session Classification: Parallel Session III

Contribution ID: **68**

Type: **not specified**

Muon systems with MPGD

Friday, 2 September 2016 17:00 (20 minutes)

Presenter: Dr GIACOMELLI, Paolo (INFN Bologna)

Session Classification: Parallel Session III

Contribution ID: 69

Type: **not specified**

Next u-strip tracking systems

Friday, 2 September 2016 17:20 (20 minutes)

Presenter: Prof. FANO', Livio (Università degli Studi di Perugia and INFN)

Session Classification: Parallel Session III

Contribution ID: 70

Type: **not specified**

An ultra-light drift chamber with particle identification capabilities

Friday, 2 September 2016 17:40 (20 minutes)

Presenter: Prof. GRANCAGNOLO, Franco (Università del Salento and INFN)

Session Classification: Parallel Session III

Contribution ID: 71

Type: **not specified**

CEPC ADPR SRF and beam dynamics study

Friday, 2 September 2016 16:20 (17 minutes)

Presenter: Dr LIU, Zhenchao (IHEP)

Session Classification: Parallel Session III

Contribution ID: 72

Type: **not specified**

CEPC waveguide HOM 5cell and 2cell cavity study and EP facility

Friday, 2 September 2016 16:37 (17 minutes)

Presenter: Dr JIN, Song (IHEP)

Session Classification: Parallel Session III

Contribution ID: 73

Type: **not specified**

CEPC 650MHz high efficiency klystron study

Friday, 2 September 2016 16:54 (17 minutes)

Presenter: Dr ZHOU, Zusheng (IHEP)

Session Classification: Parallel Session III

Contribution ID: 74

Type: **not specified**

CEPC injector study

Friday, 2 September 2016 17:11 (17 minutes)

Presenter: Dr MENG, Cai (IHEP)

Session Classification: Parallel Session III

Contribution ID: 75

Type: **not specified**

Prototype of the twin-aperture superconducting FF quadrupole

Friday, 2 September 2016 17:28 (17 minutes)

Presenter: OKUNEV, Ivan (BINP)

Session Classification: Parallel Session III

Contribution ID: 76

Type: **not specified**

CEPC SC quadrupole and sextupole designs

Friday, 2 September 2016 17:45 (15 minutes)

Presenter: Dr ZHU, Yingshun (IHEP)

Session Classification: Parallel Session III

Contribution ID: 77

Type: **not specified**

SS Conceptual Design

Friday, 2 September 2016 16:20 (20 minutes)

Presenter: Prof. WANG, Xiangqi (USTC)

Session Classification: Parallel Session III

Contribution ID: 78

Type: **not specified**

High-field Superconducting Magnets

Friday, 2 September 2016 16:40 (20 minutes)

Presenter: Dr XU, Qingjin (IHEP)

Session Classification: Parallel Session III

Contribution ID: 79

Type: **not specified**

Beam Screen

Presenter: Dr GAN, Pingping (PKU)

Contribution ID: **80**

Type: **not specified**

Proton and ion linacs

Friday, 2 September 2016 17:00 (20 minutes)

Presenter: Dr LU, Yuanrong (PKU)

Session Classification: Parallel Session III

Contribution ID: **81**

Type: **not specified**

Motivations for an accurate measurement of Br(H- \rightarrow BSM)

Saturday, 3 September 2016 09:20 (25 minutes)

Presenter: Dr BARKLOW, Timothy (SLAC)

Session Classification: Parallel Session II

Contribution ID: **82**

Type: **not specified**

Preliminary machine design parameters

Saturday, 3 September 2016 09:20 (15 minutes)

Presenter: Dr WANG, Dou (IHEP)

Session Classification: Parallel Session II

Contribution ID: 83

Type: **not specified**

Review of NLO corrections to $e^+e^- \rightarrow ZH$ and 4 fermions

Presenter: Prof. SUN, Hao (DLUT)

Contribution ID: **84**

Type: **not specified**

Considerations on detector backgrounds

Saturday, 3 September 2016 09:35 (15 minutes)

Presenter: Dr XIU, Qinglei (IHEP)

Session Classification: Parallel Session II

Contribution ID: **85**

Type: **not specified**

Discussion

Saturday, 3 September 2016 09:50 (10 minutes)

Presenter: ALL

Session Classification: Parallel Session II

Contribution ID: **86**

Type: **not specified**

SPPC general progress

Friday, 2 September 2016 11:00 (20 minutes)

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

Session Classification: Parallel Session I

Contribution ID: 87

Type: **not specified**

LATTICE Design-1

Friday, 2 September 2016 11:20 (15 minutes)

Presenter: Dr SU, Feng (IHEP)

Session Classification: Parallel Session I

Contribution ID: **88**

Type: **not specified**

LATTICE Design-2

Friday, 2 September 2016 11:35 (15 minutes)

Presenter: Dr CHEN, Yukai (IHEP)

Session Classification: Parallel Session I

Contribution ID: **89**

Type: **not specified**

100-TeV lattice design

Presenter: ZHANG, Linhao (USTC/IHEP)

Contribution ID: **90**

Type: **not specified**

100-TeV lattice design

Friday, 2 September 2016 11:50 (10 minutes)

Presenter: ZHANG, Linhao (USTC/IHEP)

Session Classification: Parallel Session I

Contribution ID: 91

Type: **not specified**

Review of NLO correction to $e^+e^- \rightarrow ZH$ and 4fermions

Saturday, 3 September 2016 09:45 (15 minutes)

Presenter: SUN, Hao

Session Classification: Parallel Session II

Contribution ID: 92

Type: **not specified**

Discussion

Friday, 2 September 2016 17:20 (40 minutes)

Session Classification: Parallel Session III

Contribution ID: 93

Type: **not specified**

Simulation of the FCCee lattice with quadrupole and sextupole misalignments

Friday, 2 September 2016 18:00 (15 minutes)

Presenter: SINYATKIN, Sergey (BINP)

Session Classification: Parallel Session III

Contribution ID: 94

Type: **not specified**

Interference effects on Higgs mass measurement at CEPC

Friday, 2 September 2016 15:40 (25 minutes)

Presenter: XU, Guang-Zhi (Liaoning University)

Session Classification: Parallel Session II