

CEPC Theory Group Workshop

Report of Contributions

Contribution ID: 0

Type: **not specified**

TBA

Primary author: Mr YU, FuSheng (IHEP)

Contribution ID: 1

Type: **not specified**

TBA

Primary author: Dr ZHU, HuaXing (SLAC National Accelerator Laboratory)

Contribution ID: 2

Type: **not specified**

TBA

Primary author: MOULT, Ian

Contribution ID: 3

Type: **not specified**

A short introduction to automatic monte calro tools up to NLO or higher for e+e- colliders

Thursday, 13 July 2017 13:30 (30 minutes)

Primary author: SUN, Hao

Presenter: Mr 孙, 昊 (大连理工大学)

Session Classification: Electroweak Precision

Contribution ID: 4

Type: **not specified**

Neutrino

Primary author: YIN, Wen

Contribution ID: 5

Type: **not specified**

Neutrino2

Primary author: FISCHER, Oliver

Contribution ID: 6

Type: **not specified**

GW

Primary author: HUANG, Fapeng (IHEP)

Contribution ID: 7

Type: **not specified**

TBA

Primary author: MA, Yanqing

Contribution ID: 8

Type: **not specified**

TBA

Primary author: Dr GU, Jiayin (CFHEP, IHEP)

Contribution ID: 9

Type: **not specified**

TBA

Primary author: Dr JIA, Yu (IHEP)

Contribution ID: **10**

Type: **not specified**

TBA

Primary author: Prof. YANG, Lilin (Peking University)

Co-author: LI ZHAO, Zhao (IHEP-CAS)

Contribution ID: 11

Type: **not specified**

Exotic Higgs decay

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

Contribution ID: 12

Type: **not specified**

Detector Simulation

Primary author: Mr RUAN, Manqi (IHEP)

Co-authors: Dr LI, Gang (Experimental Physics Division, Institute of High Energy Physics); LI, Qiang (School of physics, Peking University)

Contribution ID: 13

Type: **not specified**

Experiment

Contribution ID: 14

Type: **not specified**

Gang Li: Fast simulation and Delphes card

Friday, 14 July 2017 12:00 (30 minutes)

Presenter: Dr LI, Gang (Experimental Physics Division, Institute of High Energy Physics)

Session Classification: Experiment and Simulation

Contribution ID: 15

Type: **not specified**

Higgs to ee/mumu, and ISR effect with MadGraph

Friday, 14 July 2017 11:30 (30 minutes)

Presenter: LI, Qiang (School of physics, Peking University)

Session Classification: Experiment and Simulation

Contribution ID: 16

Type: **not specified**

Probing new physics at future lepton colliders through EFT

Friday, 14 July 2017 09:00 (30 minutes)

Presenter: XIE, Kepan

Session Classification: New Physics

Contribution ID: 17

Type: **not specified**

Dark matter physics at CEPC

Friday, 14 July 2017 10:00 (30 minutes)

Presenter: Dr YIN, Pengfei (IHEP)

Session Classification: New Physics

Contribution ID: **18**

Type: **not specified**

CP violation in Higgs couplings to taus at CEPC

Friday, 14 July 2017 10:30 (30 minutes)

Presenter: Dr YU, Felix

Session Classification: New Physics

Contribution ID: 19

Type: **not specified**

Zhijun Liang: EW physics at CEPC

Thursday, 13 July 2017 14:30 (30 minutes)

Presenter: Prof. LIANG, Zhijun (IHEP)

Session Classification: Electroweak Precision

Contribution ID: 20

Type: **not specified**

QCD: I

Thursday, 13 July 2017 10:30 (20 minutes)

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

Session Classification: QCD and Z-pole physics

Contribution ID: 21

Type: **not specified**

Testing Light, Hidden New Physics at Future e+ e- Colliders

Thursday, 13 July 2017 11:10 (30 minutes)

Presenter: WANG, Xiaoping

Session Classification: QCD and Z-pole physics

Contribution ID: 22

Type: **not specified**

Future Z factory as an intensity frontier for exploring dark sector

Thursday, 13 July 2017 11:40 (30 minutes)

Presenter: Dr LIU, jia (Institute of Theoretical Physics, Peking University)

Session Classification: QCD and Z-pole physics

Contribution ID: 23

Type: **not specified**

$O(\alpha^3\alpha_s)$ Study on the yields and polarizations of $J/\psi(\Upsilon)$ within the framework of non-relativistic QCD via $\gamma\gamma \rightarrow J/\psi(\Upsilon) + \gamma + X$ at CEPC

Thursday, 13 July 2017 09:00 (30 minutes)

Presenter: SUN, Zhan

Session Classification: Flavor

Contribution ID: 24

Type: **not specified**

Lepton Flavor Violations at CEPC

Thursday, 13 July 2017 09:30 (30 minutes)

Presenter: Mr YU, FuSheng (IHEP)

Session Classification: Flavor

Contribution ID: 25

Type: **not specified**

Higher order corrections to HZ and H+gamma production at CEPC

Wednesday, 12 July 2017 09:30 (30 minutes)

Presenter: Dr JIA, Yu (IHEP)

Session Classification: Higgs

Contribution ID: 26

Type: **not specified**

Zhao Li (TBA)

Wednesday, 12 July 2017 09:00 (30 minutes)

Presenter: LI ZHAO, Zhao (IHEP-CAS)

Session Classification: Higgs

Contribution ID: 27

Type: **not specified**

Z-pole electroweak precision

Thursday, 13 July 2017 14:00 (30 minutes)

Presenter: PICCININI, Fulvio

Session Classification: Electroweak Precision

Contribution ID: 28

Type: **not specified**

Jiayin Gu: Higgs EFT

Wednesday, 12 July 2017 10:30 (30 minutes)

Presenter: Dr GU, Jiayin (CFHEP, IHEP)

Session Classification: Higgs

Contribution ID: 29

Type: **not specified**

Probe 6D Higgs Operators at Future e+e- Colliders

Wednesday, 12 July 2017 11:00 (30 minutes)

Presenter: LEUNG, Sze-Ching

Session Classification: Higgs

Contribution ID: 30

Type: **not specified**

Electroweak phase transition physics from CEPC to gravitational wave

Wednesday, 12 July 2017 11:30 (30 minutes)

Presenter: Dr HUANG, Fapeng

Session Classification: Higgs

Contribution ID: 31

Type: **not specified**

Higgs combination toward CEPC

Wednesday, 12 July 2017 14:00 (30 minutes)

Presenter: Mr ZHANG, Kaili (Nankai University)

Session Classification: Higgs

Contribution ID: 32

Type: **not specified**

Manqi Ruan

Wednesday, 12 July 2017 14:30 (30 minutes)

Presenter: Mr RUAN, Manqi (IHEP)

Session Classification: Higgs

Contribution ID: 33

Type: **not specified**

Oliver Fischer: Searching heavy neutrino at CEPC

Tuesday, 11 July 2017 14:00 (30 minutes)

Session Classification: New Physics

Contribution ID: 34

Type: **not specified**

CP-violation in the scalar sector at CEPC

Tuesday, 11 July 2017 14:30 (30 minutes)

Presenter: 毛英男 (MAOYINGNAN)

Session Classification: New Physics

Contribution ID: 35

Type: **not specified**

Search of the light Higgs bosons in 4 jets at CEPC

Presenter: Prof. BENBRIK, Rachid

Contribution ID: 36

Type: **not specified**

Implication of Higgs Precision Measurements on New Physics Models

Friday, 14 July 2017 09:30 (30 minutes)

Presenter: LI, Honglei (University of Jinan)

Session Classification: New Physics

Contribution ID: 37

Type: **not specified**

EFT interpretation with Higgs combination analysis

Wednesday, 12 July 2017 13:30 (30 minutes)

Presenter: Dr WANG, Jin (Insistitute of High Energy Physics)

Session Classification: Higgs

Contribution ID: **38**

Type: **not specified**

TBA

Friday, 14 July 2017 14:00 (35 minutes)

Presenter: Prof. HAN, Tao (Univ. of Pittsburgh & TsingHua University)

Session Classification: Summary

Contribution ID: **39**

Type: **not specified**

TBA

Friday, 14 July 2017 14:35 (35 minutes)

Presenter: Prof. ARKANI-HAMED, Nima

Session Classification: Summary

Contribution ID: 40

Type: **not specified**

QCD: II

Thursday, 13 July 2017 10:50 (20 minutes)

Presenter: MOULT, Ian

Session Classification: QCD and Z-pole physics

Contribution ID: 41

Type: **not specified**

Model-independent determination of Higgs (self-)couplings at e+e- colliders

Thursday, 13 July 2017 15:00 (30 minutes)

Presenter: TIAN, Junping

Session Classification: Electroweak Precision

Contribution ID: 42

Type: **not specified**

Discussion

Friday, 14 July 2017 15:30 (40 minutes)

Presenter: WANG, Liantao (University of Chicago)

Session Classification: CDR Discussion