

CEPC Physics and Detector Snowmass Letters of Intent

Report of Contributions

Contribution ID: 0

Type: **not specified**

PFA Calorimeter

Monday, 31 August 2020 15:10 (1 minute)

Presenters: YANG, Haijun (Shanghai Jiao Tong University); Dr LIU, Jianbei (University of Science and Technology of China); Dr LIU, Yong (Institute of High Energy Physics)

Session Classification: Detector R&D

Contribution ID: 1

Type: **not specified**

High Granularity Crystal Calorimeter

Monday, 31 August 2020 15:11 (1 minute)

Presenter: Dr LIU, Yong (Institute of High Energy Physics)

Session Classification: Detector R&D

Contribution ID: 2

Type: **not specified**

EF01-Higgs boson CP properties at CEPC

Monday, 31 August 2020 16:00 (3 minutes)

Presenters: MENG XIAO; XIN SHI

Session Classification: Open Physics Questions

Contribution ID: 3

Type: **not specified**

EF01-Measurement of branching fractions of Higgs hadronic decays

Monday, 31 August 2020 16:03 (3 minutes)

Presenter: YANPING HUANG

Session Classification: Open Physics Questions

Contribution ID: 4

Type: **not specified**

EF02-Study of Electroweak Phase Transition in Exotic Higgs Decays with CEPC Detector Simulation

Monday, 31 August 2020 16:06 (3 minutes)

Presenter: SHU LI

Session Classification: Open Physics Questions

Contribution ID: 5

Type: **not specified**

EF03-Feasibility study of CP-violating Phase α_s measurement via $B_s \rightarrow J/\Psi$ channel at CEPC

Monday, 31 August 2020 16:09 (3 minutes)

Presenter: MINGRUI ZHAO

Session Classification: Open Physics Questions

Contribution ID: 6

Type: **not specified**

EF03-Probing top quark FCNC couplings $tq\gamma$, tqZ at future e^+e^- collider

Monday, 31 August 2020 16:12 (3 minutes)

Presenter: PEIWEN WU

Session Classification: Open Physics Questions

Contribution ID: 7

Type: **not specified**

EF03-Searching for $B_s \rightarrow \phi \nu \nu$ and other $b \rightarrow s \nu \nu$ processes at CEPC

Monday, 31 August 2020 16:15 (3 minutes)

Presenter: LINGFENG LI

Session Classification: Open Physics Questions

Contribution ID: 8

Type: **not specified**

EF04-Measurement of the leptonic effective weak mixing angle at CEPC

Monday, 31 August 2020 16:18 (3 minutes)

Presenter: SIQI YANG

Session Classification: Open Physics Questions

Contribution ID: 9

Type: **not specified**

EF04-Probing new physics with the measurements of $e^+e^- \rightarrow W^+W^-$ at CEPC with optimal observables

Monday, 31 August 2020 16:21 (3 minutes)

Presenter: JIAYIN GU

Session Classification: Open Physics Questions

Contribution ID: **10**

Type: **not specified**

EF05-Exclusive Z decays

Monday, 31 August 2020 16:24 (3 minutes)

Presenter: QIN QIN

Session Classification: Open Physics Questions

Contribution ID: 11

Type: **not specified**

EF05-NNLO electroweak correction to Higgs and Z associated production at future Higgs factory

Monday, 31 August 2020 16:27 (3 minutes)

Presenter: ZHAO LI

Session Classification: Open Physics Questions

Contribution ID: 12

Type: **not specified**

EF08-SUSY global fits with future colliders using GAMBIT

Monday, 31 August 2020 16:30 (3 minutes)

Presenter: PETER ATHRON

Session Classification: Open Physics Questions

Contribution ID: 13

Type: **not specified**

EF09-Search for t + j + MET signals from dark matter models at future e+e- collider

Monday, 31 August 2020 16:39 (3 minutes)

Presenter: PEIWEN WU

Session Classification: Open Physics Questions

Contribution ID: 14

Type: **not specified**

EF09-Search for Asymmetric Dark Matter model at CEPC by displaced lepton jets

Monday, 31 August 2020 16:36 (3 minutes)

Presenter: MENGCHAO ZHANG

Session Classification: Open Physics Questions

Contribution ID: 15

Type: **not specified**

EF0910-Dark Matter via Higgs portal at CEPC

Monday, 31 August 2020 16:42 (3 minutes)

Presenter: XIN SHI

Session Classification: Open Physics Questions

Contribution ID: 16

Type: **not specified**

EF0910-Lepton portal dark matter, gravitational waves and collider phenomenology

Monday, 31 August 2020 16:45 (3 minutes)

Presenter: KE-PAN XIE

Session Classification: Open Physics Questions

Contribution ID: 17

Type: **not specified**

RF1-Exploring new physics with $B_c \rightarrow \tau \nu_\tau$

Monday, 31 August 2020 16:48 (3 minutes)

Presenter: TAIFAN ZHENG

Session Classification: Open Physics Questions

Contribution ID: **18**

Type: **not specified**

EF08-Probing Supersymmetry and Dark Matter at the CEPC, FCCee, and ILC

Monday, 31 August 2020 16:33 (3 minutes)

Presenter: TIANJUN LI

Session Classification: Open Physics Questions

Contribution ID: **19**

Type: **not specified**

Muon Scintillator Detector

Monday, 31 August 2020 15:12 (1 minute)

Presenter: Dr WANG, Xiaolong (Institute of Modern Physics, Fudan University)

Session Classification: Detector R&D

Contribution ID: **20**

Type: **not specified**

Vertex LoI

Monday, 31 August 2020 15:13 (1 minute)

Presenter: Prof. LIANG, Zhijun (IHEP)

Session Classification: Detector R&D

Contribution ID: **21**

Type: **not specified**

MDI LoI

Monday, 31 August 2020 15:15 (1 minute)

Presenter: Dr ZHU, Hongbo (IHEP)

Session Classification: Detector R&D

Contribution ID: 22

Type: **not specified**

TPC LoI

Monday, 31 August 2020 15:16 (1 minute)

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

Session Classification: Detector R&D

Contribution ID: 23

Type: **not specified**

Solenoid R&D LoI

Monday, 31 August 2020 15:17 (1 minute)

Presenter: Dr NING, Feipeng (IHEP)

Session Classification: Detector R&D

Contribution ID: 24

Type: **not specified**

CEPC Detectors Overview LoI

Monday, 31 August 2020 15:00 (1 minute)

CEPC Detector Overview LOI
SNOWMASS21-EF1_EF4-IF9_IF0-260.pdf

Presenters: JOAO GUIMARAES COSTA; Mr RUAN, Manqi (IHEP); WANG JIANCHUN

Session Classification: Detector R&D

Contribution ID: 25

Type: **not specified**

IDEA Concept

Monday, 31 August 2020 15:02 (1 minute)

Presenter: BEDESCHI, Franco (INFN-Pisa)

Session Classification: Detector R&D

Contribution ID: 26

Type: **not specified**

Dual Readout Calorimeter

Monday, 31 August 2020 15:03 (1 minute)

Presenter: FERRARI, Roberto (INFN)

Session Classification: Detector R&D

Contribution ID: 27

Type: **not specified**

Drift Chamber

Monday, 31 August 2020 15:04 (1 minute)

Presenter: GRANCAGNOLO, Franco

Session Classification: Detector R&D

Contribution ID: **28**

Type: **not specified**

Key4hep

Monday, 31 August 2020 15:09 (1 minute)

Presenters: Dr LIN, Tao (高能所); Dr LI, Weidong (高能所); FANG, Wenxing (Beihang University); Prof. HUANG, Xingtao (Shandong University)

Session Classification: Detector R&D

Contribution ID: 29

Type: **not specified**

mu-RWELL (muons, preshower)

Monday, 31 August 2020 15:06 (1 minute)

Presenter: GIACOMELLI, Paolo (INFN-Bo)

Session Classification: Detector R&D

Contribution ID: **30**

Type: **not specified**

Time Detector LoI

Monday, 31 August 2020 15:08 (1 minute)

Presenter: Prof. LIANG, Zhijun (IHEP)

Session Classification: Detector R&D