

**Chicago Workshop on the  
CEPC, 2019 (Physics Research  
Center Rm 201, 933 East 56th  
Street)**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Overview of physics goals (35'+15')**

*Monday, September 16, 2019 9:10 AM (50 minutes)*

**Presenter:** ARKANI-HAMED, Nima

**Session Classification:** CEPC overview

Contribution ID: 2

Type: **not specified**

## **CEPC: status (30'+10')**

*Monday, September 16, 2019 10:00 AM (40 minutes)*

**Presenter:** LUO, Xinchou

**Session Classification:** CEPC overview

Contribution ID: 3

Type: **not specified**

## **CEPC: accelerator (30'+10')**

*Monday, September 16, 2019 11:10 AM (40 minutes)*

**Presenter:** GAO, Jie (IHEP)

**Session Classification:** CEPC overview

Contribution ID: 4

Type: **not specified**

## **CEPC: detector (30'+10')**

*Monday, September 16, 2019 11:50 AM (40 minutes)*

**Presenter:** BARREIRO GUIMARAES DA COSTA, Joao (Chinese Academy of Sciences (CN))

**Session Classification:** CEPC overview

Contribution ID: 5

Type: **not specified**

## US status

**Presenter:** KIM, Young-Kee (University of Chicago (US))

**Session Classification:** International Collaboration

Contribution ID: 6

Type: **not specified**

## **Panel discussion: international collaboration, US participation**

*Monday, September 16, 2019 4:30 PM (1 hour)*

**Presenters:** DENISOV, Dmitri (Brookhaven National Laboratory); ARKANI-HAMED, Nima (IAS); ENO, Sarah (U. Maryland); HAN, Tao (University of Pittsburgh); WANG, Yifang

**Session Classification:** International Collaboration

Contribution ID: 7

Type: **not specified**

## **CEPC: International Collaboration**

*Monday, September 16, 2019 4:00 PM (30 minutes)*

**Presenter:** BEDESCHI, Franco (Universita & INFN Pisa (IT))

**Session Classification:** International Collaboration



Contribution ID: 8

Type: **not specified**

## **ILC (25'+5')**

*Monday, September 16, 2019 2:00 PM (30 minutes)*

**Presenter:** BRAU, Jim (University of Oregon (US))

**Session Classification:** Linear Colliders and FCC

Contribution ID: 9

Type: **not specified**

## **CLIC (25'+5')**

*Monday, September 16, 2019 2:30 PM (30 minutes)*

**Presenter:** BRONDOLIN, Erica (CERN)

**Session Classification:** Linear Colliders and FCC

Contribution ID: **10**

Type: **not specified**

## **FCC (25'+5')**

*Monday, September 16, 2019 3:00 PM (30 minutes)*

**Presenter:** KLUTE, Markus (Massachusetts Inst. of Technology (US))

**Session Classification:** Linear Colliders and FCC

Contribution ID: 11

Type: **not specified**

## **Determination of Higgs boson couplings using Standard Model Effective Field Theory**

*Tuesday, September 17, 2019 9:00 AM (30 minutes)*

**Presenter:** PESKIN, Michael

**Session Classification:** Physics

Contribution ID: 12

Type: **not specified**

**TBA**

**Presenter:** REECE, Matthew (Harvard University)

**Session Classification:** Physics

Contribution ID: 13

Type: **not specified**

## Higgs and new physics

*Tuesday, September 17, 2019 9:30 AM (30 minutes)*

**Presenter:** GORI, Stefania (UC Santa Cruz)

**Session Classification:** Physics

Contribution ID: 14

Type: **not specified**

**TBA**

**Presenter:** SU, Shufang (University of Arizona)

**Session Classification:** Physics

Contribution ID: 15

Type: **not specified**

**TBA**

**Presenter:** ALTMANNSHOFER, Wolfgang (UC Santa Cruz)

**Session Classification:** Physics



Contribution ID: **16**

Type: **not specified**

**TBA**

**Presenter:** KILIC, Can (University of Texas at Austin)

**Session Classification:** Physics

Contribution ID: 17

Type: **not specified**

## Physics Summary

*Wednesday, September 18, 2019 2:00 PM (30 minutes)*

**Presenter:** CRAIG, Nathaniel (UC Santa Barbara)

**Session Classification:** Conclusions/Summary

Contribution ID: **18**

Type: **not specified**

## **Detector/Simulation Summary**

*Wednesday, September 18, 2019 2:30 PM (30 minutes)*

**Presenter:** QIAN, Jianming (University of Michigan (US))

**Session Classification:** Conclusions/Summary

Contribution ID: 19

Type: **not specified**

## Where do we go from here?

*Wednesday, September 18, 2019 3:00 PM (30 minutes)*

**Presenter:** WANG, Yifang

**Session Classification:** Conclusions/Summary

Contribution ID: **20**

Type: **not specified**

## **CEPC Tracking**

*Tuesday, September 17, 2019 11:00 AM (25 minutes)*

**Presenter:** YOUNG, Charlie (SLAC National Accelerator Laboratory (US))

**Session Classification:** Tracking

Contribution ID: 21

Type: **not specified**

## CEPC Tracking R&D

*Tuesday, September 17, 2019 11:25 AM (25 minutes)*

**Presenters:** GIACOMELLI, Paolo (Universita e INFN, Bologna (IT)); GIACOMELLI, Paolo (INFN Sezione di Bologna)

**Session Classification:** Tracking

Contribution ID: 22

Type: **not specified**

## **CEPC Tracking - new ideas**

*Tuesday, September 17, 2019 11:50 AM (25 minutes)*

**Presenter:** YAO, Wei-Ming (Lawrence Berkeley National Lab. (US))

**Session Classification:** Tracking

Contribution ID: 23

Type: **not specified**

## Discussion

*Tuesday, September 17, 2019 12:15 PM (15 minutes)*

**Session Classification:** Tracking



Contribution ID: 24

Type: **not specified**

## CEPC Calorimetry

*Tuesday, September 17, 2019 2:00 PM (25 minutes)*

**Presenter:** TULLY, Chris (Princeton University (US))

**Session Classification:** Calorimeter

Contribution ID: 25

Type: **not specified**

## **CEPC Calorimetry R&D**

*Tuesday, September 17, 2019 2:25 PM (25 minutes)*

**Presenter:** BEDESCHI, Franco (Universita & INFN Pisa (IT))

**Session Classification:** Calorimeter

Contribution ID: 26

Type: **not specified**

## **CEPC Calorimeter - new ideas**

*Tuesday, September 17, 2019 2:50 PM (25 minutes)*

**Presenter:** ENO, Sarah (University of Maryland (US))

**Session Classification:** Calorimeter

Contribution ID: 27

Type: **not specified**

## Discussion

*Tuesday, September 17, 2019 3:15 PM (15 minutes)*

**Session Classification:** Calorimeter

Contribution ID: 28

Type: **not specified**

## Status of calorimeter development

**Presenter:** YANG, Haijun (Shanghai Jiao Tong University (CN))

**Session Classification:** Detector, Software and Physics

Contribution ID: 29

Type: **not specified**

## **HepSim: A public Monte Carlo repository with physics and detector simulations**

**Presenter:** CHEKANOV, Sergei (Argonne National Laboratory (US))

**Session Classification:** Detector, Software and Physics

Contribution ID: **30**

Type: **not specified**

## **MDI issues - accelerator**

**Presenter:** GAO, Jie (IHEP)

**Session Classification:** Machine-Detector Interface

Contribution ID: 31

Type: **not specified**

## **Beam induced background at IP**

**Presenter:** SHI, Haoyu (IHEP)

**Session Classification:** Machine-Detector Interface



Contribution ID: 32

Type: **not specified**

## **MDI issues - detector**

**Presenter:** ZHU, Hongbo (Chinese Academy of Sciences (CN))

**Session Classification:** Machine-Detector Interface

Contribution ID: **33**

Type: **not specified**

## Discussion

**Session Classification:** Machine-Detector Interface

Contribution ID: 34

Type: **not specified**

## **Higgs studies at 240 and 360 GeV (TBC, by vidyo)**

**Presenter:** ZHANG, Kaili (IHEP)

**Session Classification:** Detector, Software and Physics

Contribution ID: 35

Type: **not specified**

## **Machine Learning for future colliders**

*Wednesday, September 18, 2019 9:00 AM (25 minutes)*

**Presenter:** HOOBERMAN, Benjamin Henry (Univ. Illinois at Urbana Champaign (US))

**Session Classification:** Simulations and Analysis Tools

Contribution ID: 36

Type: **not specified**

## **CEPC detector simulation**

*Wednesday, September 18, 2019 9:50 AM (25 minutes)*

**Presenter:** RUAN, Manqi (Chinese Academy of Sciences (CN))

**Session Classification:** Simulations and Analysis Tools

Contribution ID: 37

Type: **not specified**

## Discussion

*Wednesday, September 18, 2019 10:15 AM (15 minutes)*

**Session Classification:** Simulations and Analysis Tools

Contribution ID: **38**

Type: **not specified**

## **Jet algorithms and hadronic signatures for e+e- colliders**

*Tuesday, September 17, 2019 4:40 PM (20 minutes)*

**Presenter:** MILLER, David (University of Chicago (US))

**Session Classification:** Detector, Software and Physics

Contribution ID: 39

Type: **not specified**

## Extended Higgs sector at Higgs factory

*Wednesday, September 18, 2019 11:30 AM (30 minutes)*

**Presenter:** SU, Shufang (University of Arizona)

**Session Classification:** Physics



Contribution ID: 40

Type: **not specified**

## Naturalness and hierarchy problem

*Wednesday, September 18, 2019 11:00 AM (30 minutes)*

**Presenter:** REECE, Matthew (Harvard University)

**Session Classification:** Physics

Contribution ID: 41

Type: **not specified**

## Testing the Twin Higgs Mechanism in Collider Searches

*Wednesday, September 18, 2019 12:00 PM (30 minutes)*

**Presenter:** KILIC, Can (University of Texas at Austin)

**Session Classification:** Physics

Contribution ID: 42

Type: **not specified**

## **MDI issues - accelerator**

*Tuesday, September 17, 2019 4:00 PM (25 minutes)*

**Presenter:** GAO, Jie (Institute of High Energy Physics, China)

**Session Classification:** Machine-Detector Interface

Contribution ID: 43

Type: **not specified**

## **Beam induced background at IP**

*Tuesday, September 17, 2019 4:25 PM (25 minutes)*

**Presenter:** SHI, Haoyu (IHEP)

**Session Classification:** Machine-Detector Interface

Contribution ID: 44

Type: **not specified**

## **MDI issues - detector (Cancelled)**

*Tuesday, September 17, 2019 4:50 PM (25 minutes)*

**Presenter:** ZHU, Hongbo

**Session Classification:** Machine-Detector Interface

Contribution ID: 45

Type: **not specified**

## Discussion

*Tuesday, September 17, 2019 5:15 PM (15 minutes)*

**Session Classification:** Machine-Detector Interface

Contribution ID: 46

Type: **not specified**

## **Higgs studies at 240 and 360 GeV (by vidyo)**

*Tuesday, September 17, 2019 5:00 PM (20 minutes)*

**Presenter:** ZHANG, Kaili

**Session Classification:** Detector, Software and Physics

Contribution ID: 47

Type: **not specified**

## **Status of calorimeter development in China**

*Tuesday, September 17, 2019 4:20 PM (20 minutes)*

**Presenter:** YANG, Haijun (Shanghai Jiao Tong University (CN))

**Session Classification:** Detector, Software and Physics



Contribution ID: 48

Type: **not specified**

## Flavor and CEPC

*Tuesday, September 17, 2019 10:00 AM (30 minutes)*

**Presenter:** ALTMANNSHOFER, Wolfgang (UC Santa Cruz)

**Session Classification:** Physics

Contribution ID: 49

Type: **not specified**

## **HepSim: A public Monte Carlo repository with physics and detector simulations**

*Wednesday, September 18, 2019 9:25 AM (25 minutes)*

**Presenter:** CHEKANOV, Sergei (Argonne National Laboratory (US))

**Session Classification:** Simulations and Analysis Tools

Contribution ID: 50

Type: **not specified**

## **Pixel detector development in China**

*Tuesday, September 17, 2019 4:00 PM (20 minutes)*

**Presenter:** OUYANG, Qun (Chinese Academy of Sciences (CN))

**Session Classification:** Detector, Software and Physics

Contribution ID: 51

Type: **not specified**

## Welcome and About this workshop

**Presenters:** LOW, Ian (Argonne National Lab/Northwestern Univ); WANG, LianTao (University of Chicago); KIM, Young-Kee (University of Chicago (US))

**Session Classification:** CEPC overview

Contribution ID: 52

Type: **not specified**

## Welcome and About this workshop

*Monday, September 16, 2019 9:00 AM (10 minutes)*

**Presenters:** LOW, Ian (Argonne National Lab/Northwestern Univ); WANG, LianTao (University of Chicago); KIM, Young-Kee (University of Chicago (US))