

# **1st CFHEP Symposium on circular collider physics**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Registration

*Monday, 24 February 2014 08:00 (30 minutes)*

Contribution ID: 1

Type: **not specified**

## Overview of Physics case

**Presenter:** ARKANI-HAMED, Nima

Contribution ID: 2

Type: **not specified**

## Physics Case

Contribution ID: 3

Type: **not specified**

## Precision Higgs Physics

Contribution ID: 4

Type: **not specified**

## Detectors for Future Circular Colliders

**Presenter:** PADHI, Sanjay

Contribution ID: 5

Type: **not specified**

## Accelerator Overview

Contribution ID: 6

Type: **not specified**

## IHEP Design Effort: CEPC



Contribution ID: 7

Type: **not specified**

## Flavor at Future Circular Colliders

Contribution ID: 8

Type: **not specified**

## Dark Matter at Future Colliders

**Presenter:** WANG, Liantao (University of Chicago)

Contribution ID: 9

Type: **not specified**

## **SM Processes at Future Colliders**

Contribution ID: **10**

Type: **not specified**

## Summary and Outlook

**Presenter:** DIMOPOULOS, Savas

Contribution ID: 11

Type: **not specified**

## **Panel Discussion: After the Higgs discovery, where is fundamental physics going.**

*Sunday, 23 February 2014 19:30 (2 hours)*

Transportation will be arranged:

Pick-up Place: Entrance of the IHEP Main Building

Departure Time: 18:00

Contribution ID: 12

Type: **not specified**

## Public lectures

*Tuesday, 25 February 2014 19:30 (2 hours)*

“From the Higgs to the Realm of the Unknown” by Joseph Incandela

“The Book Keeper of the Universe” by Gerard ‘t Hooft

Contribution ID: 13

Type: **not specified**

## Naturalness and motivation for 100 TeV

**Presenter:** DIMOPOULOS, Savas (Stanford)

Contribution ID: 14

Type: **not specified**

## Precision Higgs coupling

**Presenter:** GIUDICE, Gian (CERN)



Contribution ID: 15

Type: **not specified**

## Dark matter at 100 TeV

*Monday, 24 February 2014 10:30 (30 minutes)*

**Presenter:** WANG, Lian-Tao (Univ. of Chicago)

**Session Classification:** Physics Case

Contribution ID: 16

Type: **not specified**

## Opening remarks

*Monday, 24 February 2014 08:30 (5 minutes)*

**Presenter:** WANG, Yifang (IHEP)

**Session Classification:** Opening Session

Contribution ID: 17

Type: **not specified**

## Big picture on theory

*Monday, 24 February 2014 08:35 (25 minutes)*

**Presenter:** ARKANI-HAMED, Nima (IAS)

**Session Classification:** Opening Session

Contribution ID: **18**

Type: **not specified**

## IHEP Higgs factory

**Presenter:** TBD (IHEP)

Contribution ID: **19**

Type: **not specified**

# IHEP Higgs factory

**Presenter:** TBD (IHEP)

Contribution ID: **20**

Type: **not specified**

## **100 TeV maganets**

**Presenter:** TBD

Contribution ID: **21**

Type: **not specified**

## **Detector issues for future circular colliders**

*Monday, 24 February 2014 16:30 (30 minutes)*

**Presenter:** PADHI, Sanjay (Fermilab LPC/UC San Diego)

**Session Classification:** Detector and Accelerator Study

Contribution ID: 22

Type: **not specified**

## **Experiences from Snowmass 2013 studies for a 100 TeV proton collider**

*Monday, 24 February 2014 17:00 (30 minutes)*

**Presenter:** NARAIN, Meenakshi (Fermilab LPC/Brown Univ)

**Session Classification:** Detector and Accelerator Study



Contribution ID: 23

Type: **not specified**

## TeV studies in China: Higgs

**Presenter:** TBD

Contribution ID: 24

Type: **not specified**

## Higgs

*Tuesday, 25 February 2014 09:00 (30 minutes)*

**Presenter:** LIU, Tao (Hong Kong University of Science and Technology)

**Session Classification:** Working Group Activities I

Contribution ID: 25

Type: **not specified**

## **BSM:SUSY**

*Tuesday, 25 February 2014 09:30 (30 minutes)*

**Presenter:** YANG, Jin Min (ITP)

**Session Classification:** Working Group Activities I

Contribution ID: 26

Type: **not specified**

## Flavor

**Presenter:** XIAO, Zhenjun (Nanjing Normal Univ.)

Contribution ID: 27

Type: **not specified**

## Cosmology

*Tuesday, 25 February 2014 11:30 (30 minutes)*

**Presenter:** BI, Xiao-Jun (IHEP)

**Session Classification:** Working Group Activities II

Contribution ID: **28**

Type: **not specified**

## Neutrino

**Presenter:** LIAO, Yi (Naikai Univeristy)

Contribution ID: 29

Type: **not specified**

## Other

**Presenter:** TBD

Contribution ID: **30**

Type: **not specified**

## **Center activity and forward looking**

*Tuesday, 25 February 2014 16:00 (1h 30m)*

**Presenter:** ARKANI-HAMED, Nima (IAS)

**Session Classification:** Working Group Discussion



Contribution ID: **31**

Type: **not specified**

## **BSM: nonSUSY**

**Presenter:** TBD

Contribution ID: **32**

Type: **not specified**

## **SM tests**

*Tuesday, 25 February 2014 11:00 (30 minutes)*

**Presenter:** CAO, Qing-Hong (Peking University)

**Session Classification:** Working Group Activities II

Contribution ID: **33**

Type: **not specified**

## **MC tools**

*Tuesday, 25 February 2014 15:00 (30 minutes)*

**Presenter:** YAN, Qi-Shu (UCAS)

**Session Classification:** Working Group Activities III

Contribution ID: **34**

Type: **not specified**

## **Cosmology and TeV physics**

*Monday, 24 February 2014 11:00 (30 minutes)*

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

**Session Classification:** Physics Case

Contribution ID: 35

Type: **not specified**

## **Naturalness and motivation for 100 TeV**

*Monday, 24 February 2014 09:00 (30 minutes)*

**Presenter:** DIMOPOULOS, Savas (Stanford)

**Session Classification:** Opening Session

Contribution ID: 36

Type: **not specified**

# Hadron spectroscopy from strangeness to charm and beauty

*Monday, 24 February 2014 14:00 (30 minutes)*

**Presenter:** ZOU, Bingsong (ITP)

**Session Classification:** Physics Overview

Contribution ID: 37

Type: **not specified**

## Neutrino physics

*Monday, 24 February 2014 14:30 (30 minutes)*

**Presenter:** LIAO, Yi (Nankai University)

**Session Classification:** Physics Overview

Contribution ID: **38**

Type: **not specified**

## **Z-Facory consideration in China**

*Monday, 24 February 2014 15:00 (30 minutes)*

**Presenter:** CHANG, Chao-Hsi (ITP)

**Session Classification:** Physics Overview



Contribution ID: 39

Type: **not specified**

## **The CEPC-SppC study group in China**

*Monday, 24 February 2014 16:00 (30 minutes)*

**Presenter:** LOU, Xinchou (IHEP)

**Session Classification:** Detector and Accelerator Study

Contribution ID: 40

Type: **not specified**

## 100 TeV collider magnets

*Monday, 24 February 2014 17:30 (30 minutes)*

**Presenter:** ZOBLIN, Alexander (Fermilab)

**Session Classification:** Detector and Accelerator Study

Contribution ID: 41

Type: **not specified**

## Working group summary

*Tuesday, 25 February 2014 08:30 (30 minutes)*

**Presenter:** ZHU, Shouhua (Peking University)

**Session Classification:** Working Group Activities I

Contribution ID: 42

Type: **not specified**

## **BSM: nonSUSY**

*Tuesday, 25 February 2014 10:30 (30 minutes)*

**Presenter:** SHU, Jing (ITP)

**Session Classification:** Working Group Activities II

Contribution ID: 43

Type: **not specified**

## Some topics of flavor physics

*Tuesday, 25 February 2014 14:00 (30 minutes)*

**Presenter:** XIAO, Zhenjun (Nanjing Normal University)

**Session Classification:** Working Group Activities III

Contribution ID: 44

Type: **not specified**

## Top physics

*Tuesday, 25 February 2014 14:30 (30 minutes)*

**Presenter:** SI, Zongguo (Shandong University)

**Session Classification:** Working Group Activities III

Contribution ID: 45

Type: **not specified**

## Precision Higgs coupling

**Presenter:** GIUDICE, Gian (CERN)

Contribution ID: 46

Type: **not specified**

## **Properties of the hottest matter at a future high-energy collider**

*Monday, 24 February 2014 11:30 (30 minutes)*

**Presenter:** WANG, Xin-Nian (LBNL/Central China Normal Univ.)

**Session Classification:** Physics Case



Contribution ID: 47

Type: **not specified**

## **B+L violation in high energy collisions**

*Monday, 24 February 2014 09:30 (30 minutes)*

**Presenter:** KHOZE, Valya (IPPP)

**Session Classification:** Opening Session