

# **Accelerators for a Higgs Factory: Linear vs. Circular (HF2012)**



## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Welcome

*Wednesday, 14 November 2012 09:00 (5 minutes)*

**Presenter:** Dr ODDONE, Pier (Fermilab)

**Session Classification:** Welcome, Introduction and Physics

Contribution ID: 1

Type: **not specified**

## Strategy for Higgs Study

*Wednesday, 14 November 2012 09:05 (20 minutes)*

**Presenter:** Prof. KIM, Young-Kee (FNAL)

**Session Classification:** Welcome, Introduction and Physics

Contribution ID: 2

Type: **not specified**

## Higgs at the LHC

*Wednesday, 14 November 2012 09:30 (30 minutes)*

**Presenter:** Dr CERUTTI, Fabio (LBNL - Berkeley)

**Session Classification:** Welcome, Introduction and Physics

Contribution ID: 3

Type: **not specified**

## **Higgs beyond the LHC - theories**

*Wednesday, 14 November 2012 10:10 (30 minutes)*

**Presenter:** Prof. QUIGG, Chris (Fermilab)

**Session Classification:** Welcome, Introduction and Physics

Contribution ID: 4

Type: **not specified**

## **ILC as a Higgs Factory**

*Wednesday, 14 November 2012 14:00 (30 minutes)*

**Presenter:** Dr WALKER, Nicholas (DESY)

**Session Classification:** Linear e+e- Higgs Factories

Contribution ID: 5

Type: **not specified**

## **Higgs beyond the LHC - experiments**

*Wednesday, 14 November 2012 11:15 (30 minutes)*

**Presenter:** Dr JANOT, Patrick (CERN Geneva, Switzerland)

**Session Classification:** Welcome, Introduction and Physics

Contribution ID: 6

Type: **not specified**

## Accelerators for a Higgs Factory

*Wednesday, 14 November 2012 12:00 (20 minutes)*

**Presenter:** Dr HENDERSON, Stuart (Fermilab)

**Session Classification:** Welcome, Introduction and Physics



Contribution ID: 7

Type: **not specified**

## **CLIC as a Higgs factory**

*Wednesday, 14 November 2012 14:45 (30 minutes)*

**Presenter:** Dr SCHULTE, Daniel (CERN)

**Session Classification:** Linear e+e- Higgs Factories

Contribution ID: 8

Type: **not specified**

## **SLC & NLC-type Higgs Factory**

*Wednesday, 14 November 2012 16:00 (30 minutes)*

**Presenter:** Prof. RAUBENHEIMER, Tor (SLAC)

**Session Classification:** Linear e+e- Higgs Factories

Contribution ID: 9

Type: **not specified**

## **Machine-Detector interface for the ILC and CLIC**

*Wednesday, 14 November 2012 16:45 (30 minutes)*

**Presenter:** ORIUNNO, Marco (SLAC)

**Session Classification:** Linear e+e- Higgs Factories

Contribution ID: **10**

Type: **not specified**

## **LEP3 and TLEP**

*Thursday, 15 November 2012 09:00 (25 minutes)*

**Presenter:** Dr ZIMMERMANN, Frank (CERN)

**Session Classification:** Circular e+e- Higgs Factories

Contribution ID: 11

Type: **not specified**

## SuperTristan

*Thursday, 15 November 2012 09:40 (15 minutes)*

**Presenter:** Dr OIDE, Katsunobu (KEK)

**Session Classification:** Circular e+e- Higgs Factories

Contribution ID: 12

Type: **not specified**

## IHEP Higgs Factory

*Thursday, 15 November 2012 11:00 (15 minutes)*

**Presenter:** Dr QIN, Qing (Institute of High Energy Physics, Chinese Academy of Sciences)

**Session Classification:** Circular e+e- Higgs Factories

Contribution ID: 13

Type: **not specified**

## **LBNL/SLAC ring and lattice issues**

*Thursday, 15 November 2012 11:25 (25 minutes)*

**Presenter:** Dr CAI, Yunhai (SLAC)

**Session Classification:** Circular e+e- Higgs Factories

Contribution ID: 14

Type: **not specified**

## Topping up injection

*Thursday, 15 November 2012 12:05 (15 minutes)*

**Presenter:** Dr SEEMAN, John (SLAC)

**Session Classification:** Circular e+e- Higgs Factories



Contribution ID: 15

Type: **not specified**

## **Beamstrahlung – calculations and cure**

*Thursday, 15 November 2012 14:00 (20 minutes)*

**Presenter:** Prof. TELNOV, Valery (Budker INP)

**Session Classification:** Limits for circular e+e- colliders

Contribution ID: 16

Type: **not specified**

## **Beamstrahlung – simulations**

*Thursday, 15 November 2012 14:30 (20 minutes)*

**Presenter:** Prof. ZANETTI, Marco (MIT)

**Session Classification:** Limits for circular e+e- colliders

Contribution ID: 17

Type: **not specified**

## Scaling Law

*Thursday, 15 November 2012 15:00 (20 minutes)*

**Presenter:** Dr YOKOYA, Kaoru (KEK)

**Session Classification:** Limits for circular e+e- colliders

Contribution ID: **18**

Type: **not specified**

## **Beam-beam tune shift**

*Thursday, 15 November 2012 16:00 (20 minutes)*

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

**Session Classification:** Limits for circular e+e- colliders

Contribution ID: 19

Type: **not specified**

## Synchrotron radiation - RF

*Thursday, 15 November 2012 16:30 (20 minutes)*

**Presenter:** Dr BUTTERWORTH, Andrew (CERN)

**Session Classification:** Limits for circular e+e- colliders

Contribution ID: 20

Type: **not specified**

## **Synchrotron radiation - vacuum**

*Thursday, 15 November 2012 17:00 (20 minutes)*

**Presenter:** KURITA, Nadine (SLAC)

**Session Classification:** Limits for circular e+e- colliders

Contribution ID: 21

Type: **not specified**

## Light Sources

*Friday, 16 November 2012 09:00 (30 minutes)*

**Presenter:** BARTOLINI, Riccardo (Diamond and JAI)

**Session Classification:** Low emittance rings

Contribution ID: 22

Type: **not specified**

## Colliders

*Friday, 16 November 2012 09:45 (30 minutes)*

**Presenter:** Prof. FUNAKOSHI, Yoshihiro (KEK)

**Session Classification:** Low emittance rings



Contribution ID: 23

Type: **not specified**

## Physics of $\mu\mu \rightarrow$ Higgs

*Friday, 16 November 2012 11:00 (15 minutes)*

**Presenters:** Prof. HAN, Tao (Univ. of Pittsburgh); Prof. HAN, Tao (University of Wisconsin)

**Session Classification:** Muon collider as Higgs Factory

Contribution ID: 24

Type: **not specified**

## Muon Collider

*Friday, 16 November 2012 11:20 (30 minutes)*

**Presenter:** Dr NEUFFER, David (Fermilab)

**Session Classification:** Muon collider as Higgs Factory

Contribution ID: 25

Type: **not specified**

## **Background and machine-detector interface**

*Friday, 16 November 2012 12:05 (15 minutes)*

**Presenter:** Dr LIPTON, Ronald (Fermilab)

**Session Classification:** Muon collider as Higgs Factory

Contribution ID: 26

Type: **not specified**

## Physics of gamma+gamma -> Higgs

*Friday, 16 November 2012 13:45 (15 minutes)*

**Presenter:** Prof. VELASCO, Mayda (Northwestern University)

**Session Classification:** Gamma-Gamma collider as Higgs Factory

Contribution ID: 27

Type: **not specified**

## **Gamma-gamma collider**

*Friday, 16 November 2012 14:10 (25 minutes)*

**Presenter:** Dr TAKAHASHI, Tohru (Hiroshima University)

**Session Classification:** Gamma-Gamma collider as Higgs Factory

Contribution ID: 28

Type: **not specified**

## **Laser for CLIC-based gamma-gamma collider**

*Friday, 16 November 2012 14:45 (15 minutes)*

**Presenter:** Dr BAYRAMIAN, Andy (Lawrence Livermore National Laboratory)

**Session Classification:** Gamma-Gamma collider as Higgs Factory

Contribution ID: 29

Type: **not specified**

## **SAPPHiRE and LHeC**

*Friday, 16 November 2012 15:10 (15 minutes)*

**Presenter:** Dr ZIMMERMANN, Frank (CERN)

**Session Classification:** Gamma-Gamma collider as Higgs Factory

Contribution ID: **30**

Type: **not specified**

## **Higgs Factory - Physics**

*Friday, 16 November 2012 16:00 (25 minutes)*

**Presenter:** Prof. BLONDEL, Alain (University of Geneva)

**Session Classification:** Summary Talk (Joint with the Wine-and-Cheese Seminar)



Contribution ID: 31

Type: **not specified**

## Higgs Factory - accelerators

*Friday, 16 November 2012 16:25 (35 minutes)*

**Presenter:** Dr CHOU, Weiren (Fermilab)

**Session Classification:** Summary Talk (Joint with the Wine-and-Cheese Seminar)

Contribution ID: 32

Type: **not specified**

## Fermilab Site Filler

*Thursday, 15 November 2012 10:05 (15 minutes)*

**Presenter:** Dr SEN, Tanaji (Fermilab)

**Session Classification:** Circular e+e- Higgs Factories

Contribution ID: 33

Type: **not specified**

## **Latest Higgs results from the LHC based on 13 fb-1 of data**

**Presenter:** Dr CERUTTI, Fabio (LBNL - Berkeley)

Contribution ID: 34

Type: **not specified**

## **An X-band $e^+e^-/\gamma+\gamma$ Higgs factory at KEK**

*Wednesday, 14 November 2012 15:15 (5 minutes)*

**Presenter:** HIGO, Toshiyasu (KEK)

**Session Classification:** Linear  $e^+e^-$  Higgs Factories