

# **Higgs Couplings 2013**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## **Higgs Production and decay via heavy quarks**

*Monday, October 14, 2013 11:30 AM (35 minutes)*

**Presenter:** FORTE, Stefano (Università degli Studi e INFN Milano (IT))

**Session Classification:** Experimental signatures and Theory calculations

Contribution ID: 1

Type: **not specified**

## **Higgs production and decay via weak vector bosons**

*Monday, October 14, 2013 12:05 PM (35 minutes)*

**Presenter:** MUECK, Alexander (Aachen)

**Session Classification:** Experimental signatures and Theory calculations

Contribution ID: 2

Type: **not specified**

## **Higgs mass and width, line-shape**

*Monday, October 14, 2013 3:00 PM (35 minutes)*

**Presenter:** DE FLORIAN, Daniel (Laboratorio de Fisica Teorica Departamento de Fisica)

**Session Classification:** Mass, spin and CP

Contribution ID: 3

Type: **not specified**

## Effective models for spin and CP studies

*Monday, October 14, 2013 5:30 PM (35 minutes)*

**Presenter:** MAWATARI, Kentarou (Vrije Univ. Brussel)

**Session Classification:** Mass, spin and CP

Contribution ID: 4

Type: **not specified**

## **Couplings fits via signal stretch / LHC and prospects for future colliders**

*Tuesday, October 15, 2013 11:00 AM (35 minutes)*

**Presenter:** RAUCH, Michael (Univ. Karlsruhe, KIT)

**Session Classification:** Higgs boson couplings

Contribution ID: 5

Type: **not specified**

## **Model-independent effective field theories / fitting non-standard operators**

*Tuesday, October 15, 2013 11:35 AM (35 minutes)*

**Presenter:** GONZALEZ-GARCIA, Concha (Stony Brook and IFIC-Valencia)

**Session Classification:** Higgs boson couplings

Contribution ID: 6

Type: **not specified**

## Composite Higgs bosons

*Tuesday, October 15, 2013 4:20 PM (25 minutes)*

**Presenter:** REDI, Michele (Universita e INFN (IT))

**Session Classification:** Higgs boson couplings and structure



Contribution ID: 7

Type: **not specified**

## **Strongly interacting physics versus weakly interacting SUSY and/or non-SUSY approaches**

*Tuesday, October 15, 2013 4:45 PM (25 minutes)*

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

**Session Classification:** Higgs boson couplings and structure

Contribution ID: 8

Type: **not specified**

## **Strong interacting EWSB, Vector boson scattering**

*Tuesday, October 15, 2013 5:10 PM (25 minutes)*

**Presenter:** GOMEZ CEBALLOS RETUERTO, Guillermo (Massachusetts Inst. of Technology (US))

**Session Classification:** Higgs boson couplings and structure

Contribution ID: 9

Type: **not specified**

## **SUSY Higgs boson**

*Wednesday, October 16, 2013 9:25 AM (35 minutes)*

**Presenter:** GORI, Stefania

**Session Classification:** Extended Higgs sector

Contribution ID: **10**

Type: **not specified**

## **Extended non-SUSY Higgs sectors**

*Wednesday, October 16, 2013 10:25 AM (35 minutes)*

**Presenter:** Mr ENGLERT, Christoph (ITP Karlsruhe University)

**Session Classification:** Extended Higgs sector

Contribution ID: **11**

Type: **not specified**

## **Spontaneous symmetry breaking**

*Monday, October 14, 2013 9:00 AM (45 minutes)*

**Presenter:** ILIOPOULOS, Jean (LPTENS)

**Session Classification:** Experimental signatures and Theory calculations

Contribution ID: 12

Type: **not specified**

## **Higgs boson decaying to bosons (incl. Zgamma and heavy Higgs)**

*Monday, October 14, 2013 9:45 AM (35 minutes)*

**Presenter:** VELASCO, Mayda (Northwestern University (US))

**Session Classification:** Experimental signatures and Theory calculations

Contribution ID: 13

Type: **not specified**

## **Higgs bosons decaying to fermions (incl. $\mu\mu$ ) in ATLAS and CMS**

*Monday, October 14, 2013 10:20 AM (35 minutes)*

**Presenter:** MALONE, Caitlin Marie (SLAC National Accelerator Laboratory (US))

**Session Classification:** Experimental signatures and Theory calculations

Contribution ID: 14

Type: **not specified**

## Discussion

*Monday, October 14, 2013 10:55 AM (15 minutes)*

**Session Classification:** Experimental signatures and Theory calculations



Contribution ID: 15

Type: **not specified**

## Discussion

*Monday, October 14, 2013 12:40 PM (20 minutes)*

**Session Classification:** Experimental signatures and Theory calculations

Contribution ID: 16

Type: **not specified**

## **Higgs boson mass and width in ATLAS and CMS**

*Monday, October 14, 2013 2:30 PM (30 minutes)*

**Presenter:** Dr TARRADE, Fabien (Carleton University (CA))

**Session Classification:** Mass, spin and CP

Contribution ID: 17

Type: **not specified**

## Discussion

*Monday, October 14, 2013 3:35 PM (15 minutes)*

**Session Classification:** Mass, spin and CP

Contribution ID: **18**

Type: **not specified**

## **Higgs boson spin/CP, Results from CMS**

*Monday, October 14, 2013 4:15 PM (25 minutes)*

**Presenter:** GRITSAN, Andrei (Johns Hopkins University (US))

**Session Classification:** Mass, spin and CP

Contribution ID: 19

Type: **not specified**

## **Determination of Spin and CP of the Higgs Boson in ATLAS**

*Monday, October 14, 2013 4:40 PM (25 minutes)*

**Presenter:** HERNANDEZ JIMENEZ, Yesenia (Universidad de Valencia (ES))

**Session Classification:** Mass, spin and CP

Contribution ID: **20**

Type: **not specified**

## Discussion

*Monday, October 14, 2013 6:05 PM (15 minutes)*

**Session Classification:** Mass, spin and CP

Contribution ID: 21

Type: **not specified**

# Determination of Higgs Boson Coupling Strength in ATLAS

*Tuesday, October 15, 2013 9:00 AM (35 minutes)*

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

**Session Classification:** Higgs boson couplings

Contribution ID: 22

Type: **not specified**

## **Higgs boson couplings, Results from CMS**

*Tuesday, October 15, 2013 9:35 AM (35 minutes)*

**Presenter:** PETRUCCIANI, Giovanni (CERN)

**Session Classification:** Higgs boson couplings



Contribution ID: 23

Type: **not specified**

## Discussion

*Tuesday, October 15, 2013 10:10 AM (20 minutes)*

**Session Classification:** Higgs boson couplings

Contribution ID: 24

Type: **not specified**

## Discussion

*Tuesday, October 15, 2013 12:10 PM (20 minutes)*

**Session Classification:** Higgs boson couplings

Contribution ID: 25

Type: **not specified**

## **Prospects for Higgs boson coupling measurements at Hadron Colliders (LHC, HL-LHC)**

*Tuesday, October 15, 2013 2:00 PM (30 minutes)*

**Presenter:** ZANETTI, Marco (Massachusetts Inst. of Technology (US))

**Session Classification:** Higgs boson couplings and structure

Contribution ID: 26

Type: **not specified**

## **Prospects for Measuring Higgs Boson Couplings at the ILC**

*Tuesday, October 15, 2013 2:30 PM (30 minutes)*

**Presenter:** TANABE, Tomohiko

**Session Classification:** Higgs boson couplings and structure

Contribution ID: 27

Type: **not specified**

## **Prospects for Higgs boson coupling measurements at TLEP**

*Tuesday, October 15, 2013 3:00 PM (20 minutes)*

**Presenters:** TINOCO MENDES, Andre (CERN); BOTTA, Cristina (CERN)

**Session Classification:** Higgs boson couplings and structure

Contribution ID: **28**

Type: **not specified**

## **Discussion**

*Tuesday, October 15, 2013 3:20 PM (30 minutes)*

**Session Classification:** Higgs boson couplings and structure

Contribution ID: 29

Type: **not specified**

## Discussion

*Tuesday, October 15, 2013 5:35 PM (25 minutes)*

**Session Classification:** Higgs boson couplings and structure

Contribution ID: **30**

Type: **not specified**

## **Constraints on Higgs sectors from B-Factories**

*Wednesday, October 16, 2013 9:00 AM (25 minutes)*

**Presenter:** ROTONDO, Marcello (Universita e INFN (IT))

**Session Classification:** Extended Higgs sector



Contribution ID: 31

Type: **not specified**

## **Search for Higgs Bosons in Extensions of the SM in ATLAS and CMS**

*Wednesday, October 16, 2013 10:00 AM (25 minutes)*

**Presenter:** BRESSLER, Shikma (Weizmann Institute of Science (IL))

**Session Classification:** Extended Higgs sector

Contribution ID: **32**

Type: **not specified**

## **RG evolutions, vacuum stability**

*Wednesday, October 16, 2013 11:30 AM (25 minutes)*

**Presenter:** DEGRASSI, Giuseppe (Roma Tre Universita Degli Studi (IT))

**Session Classification:** Extended Higgs sector

Contribution ID: **33**

Type: **not specified**

## **Discussion**

*Wednesday, October 16, 2013 11:55 AM (25 minutes)*

**Session Classification:** Extended Higgs sector

Contribution ID: **34**

Type: **not specified**

## Concluding talk

*Wednesday, October 16, 2013 12:20 PM (40 minutes)*

**Presenter:** PASSARINO, Giampiero (Torino University)

**Session Classification:** Extended Higgs sector

Contribution ID: 35

Type: **not specified**

## **Results on Higgs boson parameters from the Tevatron**

*Monday, October 14, 2013 5:05 PM (25 minutes)*

**Presenters:** BERNARDI, Gregorio (Centre National de la Recherche Scientifique (FR)); BERNARDI, gregorio (LPNHE University of Paris 6 & 7); BERNARDI, gregorio (LPNHE Paris 6 and 7)

**Session Classification:** Mass, spin and CP