

**Prospects for Charged Higgs
Discovery at Colliders
(CHARGED 2014)**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Registration

Tuesday, 16 September 2014 08:30 (30 minutes)

Contribution ID: 1

Type: **not specified**

Welcome

Tuesday, 16 September 2014 09:00 (15 minutes)

Presenter: TYSK, Johan (Vice rektor, Uppsala University)

Contribution ID: 2

Type: **not specified**

ATLAS+CMS review of SM Higgs searches: bosonic and fermionic decays

Tuesday, 16 September 2014 09:15 (35 minutes)

Presenter: KOURKOUMELIS, Christine (University of Athens (GR))

Contribution ID: 3

Type: **not specified**

ATLAS+CMS review of SM Higgs properties: couplings, spin, mass

Tuesday, 16 September 2014 09:50 (35 minutes)

Presenter: JEZ, Pavel (Universite Catholique de Louvain (UCL) (BE))

Contribution ID: 4

Type: **not specified**

Review of BSM neutral Higgs results in ATLAS

Tuesday, 16 September 2014 10:55 (35 minutes)

Presenter: SALES DE BRUIN, Pedro Henrique (University of Washington (US))

Contribution ID: 5

Type: **not specified**

Review of BSM neutral Higgs results in CMS

Tuesday, 16 September 2014 11:30 (35 minutes)

Presenter: ZUCCHETTA, Alberto (Universita e INFN (IT))

Contribution ID: 6

Type: **not specified**

Search for charged Higgs bosons in ATLAS using the tau+jets final state

Tuesday, 16 September 2014 13:30 (35 minutes)

Presenter: KOPP, Anna Katharina (Albert-Ludwigs-Universitaet Freiburg (DE))

Contribution ID: 7

Type: **not specified**

Search for charged Higgs bosons in ATLAS using other final states

Tuesday, 16 September 2014 14:05 (35 minutes)

Presenter: SANDOVAL USME, Carlos (Universidad Antonio Narino (CO))

Contribution ID: 8

Type: **not specified**

CMS H+ searches, part 1

Tuesday, 16 September 2014 14:40 (35 minutes)

Presenter: VISCHIA, Pietro (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part)

Contribution ID: 9

Type: **not specified**

CMS H+ searches, part 2

Tuesday, 16 September 2014 15:15 (35 minutes)

Presenter: WENDLAND, Lauri Andreas (Helsinki Institute of Physics (FI))

Contribution ID: 10

Type: **not specified**

ATLAS contributed experimental talk #1: data-driven background estimations in H+ analyses

Tuesday, 16 September 2014 16:20 (20 minutes)

Presenter: MC CARN, Allison Renae (University of Michigan (US))

Contribution ID: 11

Type: **not specified**

CMS contributed experimental talk #1: data-driven background measurements

Tuesday, 16 September 2014 16:40 (20 minutes)

Presenter: KORTELAINEN, Matti (Helsinki Institute of Physics (FI))

Contribution ID: 12

Type: **not specified**

ATLAS contributed experimental talk #2: review of SUSY searches

Tuesday, 16 September 2014 17:00 (20 minutes)

Presenter: SERRE, Thomas Clement (Centre National de la Recherche Scientifique (FR))

Contribution ID: 13

Type: **not specified**

CMS contributed experimental talk #2: Search for H^+ decays to $c\bar{b}$

Presenter: YU, Geum Bong (Seoul Nat'l University, Department of Physics (KR))

Contribution ID: 14

Type: **not specified**

ATLAS contributed experimental talk #3: doubly-charged Higgs searches

Tuesday, 16 September 2014 17:20 (20 minutes)

Presenter: NUTI, Francesco (University of Melbourne (AU))

Contribution ID: 15

Type: **not specified**

CMS contributed experimental talk #3: $H^+ \rightarrow c\bar{s}$ analysis

Tuesday, 16 September 2014 17:40 (20 minutes)

Presenter: KOLE, Gouranga (Tata Inst. of Fundamental Research (IN))

Contribution ID: 16

Type: **not specified**

Results from b-physics (LHCb, Belle)

Wednesday, 17 September 2014 09:00 (35 minutes)

Presenter: PUGATCH, Valery (National Academy of Sciences of Ukraine (UA))

Contribution ID: 17

Type: **not specified**

Interpretation of b-physics results

Wednesday, 17 September 2014 09:35 (35 minutes)

Presenter: CRIVELLIN, Andreas (C)

Contribution ID: **18**

Type: **not specified**

Interpretation of the LHC run-1 Higgs results (2HDM)

Wednesday, 17 September 2014 10:10 (35 minutes)

Presenter: SANTOS, Rui (ISEL)

Contribution ID: 19

Type: **not specified**

Interpretation of the LHC run-1 Higgs results (MSSM/SUSY)

Wednesday, 17 September 2014 11:15 (35 minutes)

Presenter: Dr SLAVICH, Pietro (Centre National de la Recherche Scientifique (FR))

Contribution ID: 20

Type: **not specified**

Report from the LHC Higgs Cross Section Working Group

Wednesday, 17 September 2014 11:50 (35 minutes)

Presenter: HEINEMEYER, Sven (CSIC (Santander, ES))

Contribution ID: 21

Type: **not specified**

H+ production and MC tools

Wednesday, 17 September 2014 14:00 (35 minutes)

Presenter: KOVARIK, Karol

Contribution ID: 22

Type: **not specified**

Overview of H⁺ decays

Wednesday, 17 September 2014 15:15 (35 minutes)

Presenter: STÅL, Oscar (DESY)

Contribution ID: 23

Type: **not specified**

Contributed talk #1

Contribution ID: 24

Type: **not specified**

Contributed talk #2

Contribution ID: 25

Type: **not specified**

MadGraph5_aMC@NLO

Wednesday, 17 September 2014 14:35 (20 minutes)

Presenter: MATTELAER, Olivier Pierre C (IPPP Durham)

Contribution ID: 26

Type: **not specified**

Automated Two Higgs Doublet Model at NLO

Wednesday, 17 September 2014 14:55 (20 minutes)

Presenter: DEGRANDE, Celine

Contribution ID: 27

Type: **not specified**

Light charged Higgs bosons decaying to charm and bottom quarks in models with two or more Higgs doublets

Wednesday, 17 September 2014 16:55 (20 minutes)

Presenter: Prof. MORETTI, Stefano (STFC - Rutherford Appleton Lab. (GB))

Contribution ID: 28

Type: **not specified**

The $h \rightarrow \gamma\gamma$ and γZ decays in the Two Higgs Doublet Model Type III

Wednesday, 17 September 2014 17:15 (20 minutes)

Presenter: HERNÁNDEZ, Jaime (Benemerita Universidad Autónoma de Puebla)

Contribution ID: 29

Type: **not specified**

Cosmology and dark matter with an extended Higgs sector

Presenter: Prof. KRAWCZYK, Maria (Institute of Theoretical Physics, Warsaw University)

Contribution ID: **30**

Type: **not specified**

EW baryogenesis

Wednesday, 17 September 2014 16:20 (35 minutes)

Presenter: Prof. RAMSEY-MUSOLF, Michael (U. Massachusetts Amherst)

Contribution ID: **31**

Type: **not specified**

Beyond-MSSM Higgs sector(s)

Thursday, 18 September 2014 09:00 (35 minutes)

Presenter: STAUB, Florian (University of Bonn)

Contribution ID: **32**

Type: **not specified**

Contributed talk #5

Contribution ID: **33**

Type: **not specified**

Contributed talk #6

Contribution ID: 34

Type: **not specified**

A light NMSSM pseudoscalar at the LHC redux

Thursday, 18 September 2014 09:55 (20 minutes)

Presenter: MUNIR, Shoaib (urn:Google)

Contribution ID: 35

Type: **not specified**

Bounds on Neutral and Charged Higgs from the LHC

Thursday, 18 September 2014 10:45 (20 minutes)

Presenter: ILISIE, Victor (IFIC (Istituto de Fisica Corpuscular))

Contribution ID: **36**

Type: **not specified**

LHC machine upgrade (Run 2 and HL-LHC)

Thursday, 18 September 2014 11:25 (35 minutes)

Presenter: Prof. ROSSI, Lucio (CERN)

Contribution ID: 37

Type: **not specified**

Prospects for BSM Higgs searches at future colliders

Thursday, 18 September 2014 14:05 (35 minutes)

Presenter: GASCON-SHOTKIN, Susan Shotkin (Universite Claude Bernard-Lyon I (FR))

Contribution ID: 38

Type: **not specified**

Readiness of the ATLAS and CMS experiments for the run-2 data taking (including object reconstruction and H⁺/Higgs search prospects)

Thursday, 18 September 2014 13:30 (35 minutes)

Presenter: RIZATDINOVA, Flera (Oklahoma State University (US))

Contribution ID: 39

Type: **not specified**

Readiness of the CMS experiment for the run-2 data taking (including object reconstruction and H+/Higgs search prospects)

Contribution ID: 40

Type: **not specified**

Summary and outlook

Thursday, 18 September 2014 14:40 (35 minutes)

Presenter: GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 43

Type: **not specified**

Charged Higgs through Triple or Double Higgs Production in a General Two Higgs Doublet Model at an e^+e^- Linear Collider

Thursday, 18 September 2014 11:05 (20 minutes)

Presenter: Dr AHMED, Ijaz (University of Malaya (MY))

Contribution ID: 44

Type: **not specified**

Contributed talk #10

Contribution ID: 54

Type: **not specified**

Charged Higgs bosons in the $W^p m$ Higgs channel at the Large Hadron Collider

Wednesday, 17 September 2014 17:35 (20 minutes)

Presenter: KLEMM, William

Contribution ID: 55

Type: **not specified**

Update on realistic 2HDM-II CPV benchmarks: exploring the tauonic charged-Higgs decay at the LHC

Thursday, 18 September 2014 09:35 (20 minutes)

Presenter: PRUNA, Giovanni Marco