

**Prospects For Charged Higgs
Discovery At Colliders
(CHARGED 2012)**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Review of the status of LHC

Monday, 8 October 2012 14:00 (30 minutes)

Primary author: Dr UYTHOVEN, Jan (CERN)

Presenter: Dr UYTHOVEN, Jan (CERN)

Session Classification: Invited introductory overview talks

Contribution ID: 1

Type: **not specified**

Review of ATLAS

Monday, 8 October 2012 14:35 (30 minutes)

Presenter: ZUTSHI, Vishnu Vikhyat (Northern Illinois University (US))

Session Classification: Invited introductory overview talks

Contribution ID: 2

Type: **not specified**

Review of CMS

Monday, 8 October 2012 15:10 (30 minutes)

Primary author: GALLINARO, Michele (LIP Lisbon)

Presenter: GALLINARO, Michele (LIP Lisbon)

Session Classification: Invited introductory overview talks

Contribution ID: 3

Type: **not specified**

New results on B-physics

Monday, 8 October 2012 16:15 (30 minutes)

Presenter: SANTAMARINA RIOS, Cibran (Universidade de Santiago de Compostela (ES))

Session Classification: Invited introductory overview talks

Contribution ID: 4

Type: **not specified**

Conclusions of the Krakow European Strategy Meeting

Monday, 8 October 2012 16:50 (30 minutes)

Primary author: NAKADA, Tatsuya (Ecole Polytechnique Federale de Lausanne (CH))

Presenter: NAKADA, Tatsuya (Ecole Polytechnique Federale de Lausanne (CH))

Session Classification: Invited introductory overview talks

Contribution ID: 5

Type: **not specified**

Search for $H^+ \rightarrow \tau + \nu$ in ATLAS

Tuesday, 9 October 2012 09:00 (30 minutes)

Presenter: CZODROWSKI, Patrick (Technische Universitaet Dresden (DE))

Session Classification: Invited talks on experimental searches for charged Higgs

Contribution ID: 6

Type: **not specified**

Search for $H^{\pm} \rightarrow \tau + \nu$ with fully hadronic final state in CMS

Tuesday, 9 October 2012 09:35 (30 minutes)

Presenter: ATTIKIS, Alexandros (University of Cyprus (CY))

Session Classification: Invited talks on experimental searches for charged Higgs

Contribution ID: 7

Type: **not specified**

Search for $H \rightarrow \tau + \nu$ with $l + \tau (\rightarrow \text{had})$ and ll final states in CMS

Tuesday, 9 October 2012 10:40 (30 minutes)

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

Session Classification: Invited talks on experimental searches for charged Higgs

Contribution ID: 8

Type: **not specified**

Search for $H^+ \rightarrow$ other states than $\tau+\nu$ in ATLAS

Tuesday, 9 October 2012 11:15 (30 minutes)

Presenter: BERNIUS, Catrin (Louisiana Tech University (US))

Session Classification: Invited talks on experimental searches for charged Higgs

Contribution ID: 9

Type: **not specified**

Physics object reconstruction in CMS: tau, b-jets, Emiss...

Tuesday, 9 October 2012 14:00 (30 minutes)

Presenter: NAYAK, Aruna (CEA - Centre d'Etudes de Saclay (FR))

Session Classification: Invited talks on experimental analysis; reconstruction and back-grounds

Contribution ID: **10**

Type: **not specified**

Physics object reconstruction in ATLAS: tau, b-jets, Emiss...

Tuesday, 9 October 2012 14:35 (30 minutes)

Presenter: XELLA, Stefania (Niels Bohr Inst. Astr., Phys, & Geo-University of Copenhagen)

Session Classification: Invited talks on experimental analysis; reconstruction and back-grounds

Contribution ID: **11**

Type: **not specified**

Data-driven background estimation in CMS

Tuesday, 9 October 2012 15:40 (30 minutes)

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

Session Classification: Invited talks on experimental analysis; reconstruction and backgrounds

Contribution ID: 12

Type: **not specified**

Data-driven background estimation in ATLAS: QCD, tt-EW, fake taus, embedding...

Tuesday, 9 October 2012 16:15 (30 minutes)

Presenters: ROZEN, Yoram (Israel Institute of Technology (IL)); ROZEN, Yoram (Israel Institute of Technology (IL))

Session Classification: Invited talks on experimental analysis; reconstruction and backgrounds

Contribution ID: 13

Type: **not specified**

Review of prospects for H+ in SUSY models in view of ATLAS and CMS results

Wednesday, 10 October 2012 09:00 (30 minutes)

Presenter: STÅL, Oscar (DESY)

Session Classification: Invited review talks on theory

Contribution ID: 14

Type: **not specified**

Review of prospects for H+ in non-SUSY multi Higgs models in view of ATLAS and CMS results

Wednesday, 10 October 2012 09:35 (30 minutes)

Presenter: SHER, Marc (William and Mary College)

Session Classification: Invited review talks on theory

Contribution ID: 15

Type: **not specified**

Review of prospects for H+ in SUSY models in view of flavour and dark matter results

Wednesday, 10 October 2012 10:40 (30 minutes)

Presenter: Dr MAHMOUDI, Farvah Nazila (Mount Allison University)

Session Classification: Invited review talks on theory

Contribution ID: 16

Type: **not specified**

Review of status of theory predictions for H+ cross-sections and branching ratios

Wednesday, 10 October 2012 11:15 (30 minutes)

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

Session Classification: Invited review talks on theory

Contribution ID: 17

Type: **not specified**

Benchmarks for 2HDM type II

Wednesday, 10 October 2012 11:50 (25 minutes)

Presenters: KRAWCZYK, Maria (Warsaw University of Technology); Prof. KRAWCZYK, Maria (Institute of Theoretical Physics, Warsaw University)

Session Classification: Contributed theory talks

Contribution ID: **18**

Type: **not specified**

Closing the window on light H^+ in NMSSM

Wednesday, 10 October 2012 14:40 (15 minutes)

Presenter: RÖSSLER, Thomas (T)

Session Classification: Contributed theory talks

Contribution ID: 19

Type: **not specified**

Top polarisation studies in H+t and Wt production

Wednesday, 10 October 2012 16:50 (15 minutes)

Presenter: WHITE, Chris (University of Glasgow)

Session Classification: Contributed theory talks

Contribution ID: 20

Type: **not specified**

Discovery potential of light H^+ at LHC in single top mode

Wednesday, 10 October 2012 14:20 (15 minutes)

Presenter: SANTOS, Rui (University of Southampton and NExT Institute)

Session Classification: Contributed theory talks

Contribution ID: 21

Type: **not specified**

Enhancement of $H \rightarrow \gamma\gamma$ from charged Higgs bosons in the Higgs Triplet Model

Thursday, 11 October 2012 09:00 (15 minutes)

Presenter: Prof. MORETTI, Stefano (STFC - Science & Technology Facilities Council (GB))

Session Classification: Contributed theory talks

Contribution ID: 22

Type: **not specified**

Associated H+W production in NMSSM

Wednesday, 10 October 2012 17:10 (15 minutes)

Primary author: PASECHNIK, Roman

Presenter: PASECHNIK, Roman

Session Classification: Contributed theory talks

Contribution ID: 23

Type: **not specified**

Automatized NLO calculations (MadGolem)

Wednesday, 10 October 2012 16:10 (15 minutes)

Presenter: LOPEZ VAL, David (University of Heidelberg)

Session Classification: Contributed theory talks

Contribution ID: 24

Type: **not specified**

Probing the charged Higgs boson at the LHC in the CP-violating type-II 2HDM

Wednesday, 10 October 2012 12:20 (15 minutes)

Presenters: PRUNA, Giovanni Marco; PRUNA, Giovanni Marco

Session Classification: Contributed theory talks

Contribution ID: 25

Type: **not specified**

Improved sensitivity to charged Higgs searches in top quark decays using tau polarisation and multivariate techniques

Wednesday, 10 October 2012 16:30 (15 minutes)

Presenter: BARREIRO ALONSO, Fernando (Universidad Autonoma de Madrid (ES))

Session Classification: Contributed theory talks

Contribution ID: 26

Type: **not specified**

Constraining General Two Higgs Doublet Models by the Evolution of Yukawa Couplings

Wednesday, 10 October 2012 15:00 (15 minutes)

Presenter: LU, Jie (IFIC, Valencia, Spain)

Session Classification: Contributed theory talks

Contribution ID: 27

Type: **not specified**

Recent developments of Higgsbounds

Wednesday, 10 October 2012 15:50 (15 minutes)

Presenters: STEFANIAK, Tim (Conseil Europeen Recherche Nucl. (CERN)-Unknown-Unknown); STEFANIAK, Tim

Session Classification: Contributed theory talks

Contribution ID: 28

Type: **not specified**

Charged Higgs effects in tauonic B decays

Wednesday, 10 October 2012 14:00 (15 minutes)

Presenter: CRIVELLIN, Andreas (University Bern)

Session Classification: Contributed theory talks

Contribution ID: 29

Type: **not specified**

Updating of 2HDM-III employing a four-zero texture in the Yukawa matrices and phenomenology of the charged Higgs

Thursday, 11 October 2012 09:20 (15 minutes)

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

Session Classification: Contributed theory talks

Contribution ID: **30**

Type: **not specified**

Future H+ prospects at LHC

Thursday, 11 October 2012 10:50 (30 minutes)

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

Session Classification: Invited talks on prospects and outlook for charged Higgs searches

Contribution ID: 31

Type: **not specified**

Charged Higgs in view of the LHC constraints in phenomenological MSSM

Thursday, 11 October 2012 09:40 (15 minutes)

Presenter: MAHMOUDI, Nazila (Universite Blaise Pascal (FR))

Session Classification: Contributed theory talks

Contribution ID: 32

Type: **not specified**

Charged Higgs search with SuperB

Thursday, 11 October 2012 11:25 (25 minutes)

Presenter: Dr LUSIANI, Alberto (Scuola Normale Superiore and INFN of PISA)

Session Classification: Invited talks on prospects and outlook for charged Higgs searches

Contribution ID: 33

Type: **not specified**

Outlook

Thursday, 11 October 2012 11:55 (30 minutes)

Presenter: EKELOF, Tord Johan Carl (Uppsala University (SE))

Session Classification: Invited talks on prospects and outlook for charged Higgs searches

Contribution ID: 44

Type: **not specified**

A radiative type-I seesaw model via TeV scale B-L breaking and its phenomenology

Thursday, 11 October 2012 10:00 (15 minutes)

Presenter: NABESHIMA, Takehiro (University of Toyama)

Session Classification: Contributed theory talks