

# **cHarged 2008 - Prospects for Charged Higgs Discovery at Colliders**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## **Non-minimal models with charged Higgs bosons**

*Tuesday 16 September 2008 09:10 (30 minutes)*

**Primary author:** MORETTI, Stefano (Unknown)

**Presenter:** MORETTI, Stefano (Unknown)

**Session Classification:** Morning session

Contribution ID: 1

Type: **not specified**

## **Higher order corrections to spectrum generators and decay packages**

*Tuesday 16 September 2008 09:45 (30 minutes)*

**Primary author:** HEINEMEYER, Sven (CERN)

**Presenter:** HEINEMEYER, Sven (CERN)

**Session Classification:** Morning session

Contribution ID: 2

Type: **not specified**

## Higher order corrections to H+ production

*Tuesday 16 September 2008 10:50 (30 minutes)*

**Primary author:** KIDONAKIS, Nikolaos (Kennesaw State University)

**Presenter:** KIDONAKIS, Nikolaos (Kennesaw State University)

**Session Classification:** Morning session

Contribution ID: 3

Type: **not specified**

## **Indirect limits on charged Higgs bosons and their model dependence**

*Tuesday 16 September 2008 11:25 (30 minutes)*

**Presenter:** ALI, Ahmed (Unknown)

**Session Classification:** Morning session

Contribution ID: 4

Type: **not specified**

## Charged Higgs searches with CDF

*Tuesday 16 September 2008 12:00 (30 minutes)*

**Primary author:** YU, Geumbong (University of Rochester)

**Presenter:** YU, Geumbong (University of Rochester)

**Session Classification:** Morning session

Contribution ID: 5

Type: **not specified**

## Charged Higgs searches with D0

**Primary author:** GUTIERREZ, Phillip (University of Oklahoma)

Contribution ID: 6

Type: **not specified**

## Charged Higgs searches with D0



Contribution ID: 7

Type: **not specified**

## Charged Higgs searches with D0

*Tuesday 16 September 2008 14:00 (30 minutes)*

**Primary author:** GUTIERREZ, Phillip (University of Oklahoma)

**Presenter:** GUTIERREZ, Phillip (University of Oklahoma)

**Session Classification:** Afternoon session

Contribution ID: **8**

Type: **not specified**

## **Charged Higgs prospects with ATLAS**

*Tuesday 16 September 2008 14:35 (30 minutes)*

**Primary author:** FLECHL, Martin (Uppsala Universitet)

**Presenter:** FLECHL, Martin (Uppsala Universitet)

**Session Classification:** Afternoon session

Contribution ID: 9

Type: **not specified**

## Charged Higgs prospects with CMS

*Tuesday 16 September 2008 15:10 (30 minutes)*

**Primary author:** KINNUNEN, Ritva (Helsinki Institute of Physics HIP)

**Presenter:** KINNUNEN, Ritva (Helsinki Institute of Physics HIP)

**Session Classification:** Afternoon session

Contribution ID: **10**

Type: **not specified**

## **Trigger Strategies**

*Tuesday 16 September 2008 16:15 (30 minutes)*

**Primary author:** POTTER, Chris (McGill University)

**Presenter:** POTTER, Chris (McGill University)

**Session Classification:** Afternoon session

Contribution ID: **11**

Type: **not specified**

## **Luminosity measurement at LHC**

*Tuesday 16 September 2008 16:50 (30 minutes)*

**Primary author:** GRAFSTROM, Per (CERN)

**Presenter:** GRAFSTROM, Per (CERN)

**Session Classification:** Afternoon session

Contribution ID: 12

Type: **not specified**

## Contributed talks - Theory

Contribution ID: 13

Type: **not specified**

## **Contributed Talks- Phenomenology and Monte Carlo**

Contribution ID: 14

Type: **not specified**

## **Contributed Talks - Search strategies, systematics and analysis tools**



Contribution ID: 15

Type: **not specified**

## **Contributed Talks - Search strategies, systematics and analysis tools**

Contribution ID: 16

Type: **not specified**

## **Reports from the chairpersons of the breakout sessions**

*Friday 19 September 2008 09:00 (1 hour)*

**Presenter:** EKELOF, Tord (University of Uppsala)

**Session Classification:** Morning session

Contribution ID: 17

Type: **not specified**

## Summary of contributed talks - Theory

*Friday 19 September 2008 10:00 (20 minutes)*

**Primary author:** OSLAND, Per (Unknown)

**Presenter:** OSLAND, Per (Unknown)

**Session Classification:** Morning session

Contribution ID: **18**

Type: **not specified**

## **Summary of contributed talks - Phenomenology and Monte Carlo**

*Friday 19 September 2008 10:20 (20 minutes)*

**Primary author:** MORETTI, Stefano (Unknown)

**Presenter:** MORETTI, Stefano (Unknown)

**Session Classification:** Morning session

Contribution ID: 19

Type: **not specified**

## **Summary of contributed talks - Search strategies, systematics and analysis tools**

*Friday 19 September 2008 11:10 (20 minutes)*

**Presenter:** FLECHL, Martin (Uppsala Universitet)

**Session Classification:** Morning session

Contribution ID: **20**

Type: **not specified**

## Outlook

*Friday 19 September 2008 11:30 (1 hour)*

**Primary author:** ELLIS, John

**Presenter:** ELLIS, John

**Session Classification:** Morning session

Contribution ID: 24

Type: **not specified**

## **Indirect limits on charged Higgs bosons and their model dependence**

**Primary author:** Prof. ALI, Ahmed (DESY)

Contribution ID: 25

Type: **not specified**

**(no title)**



Contribution ID: 26

Type: **not specified**

## **A TeV-scale model for neutrino mass, DM and baryon asymmetry**

*Wednesday 17 September 2008 09:00 (15 minutes)*

**Primary author:** Dr KANEMURA, Shinya (University of Toyama)

**Presenter:** Dr KANEMURA, Shinya (University of Toyama)

**Session Classification:** Contributed talks - Theory

Contribution ID: 27

Type: **not specified**

## **Charged Higgs boson production beyond minimal flavor violation in the MSSM**

*Wednesday 17 September 2008 09:20 (15 minutes)*

**Presenter:** SPANNOWSKY, Michael (Universitaet Karlsruhe)

**Session Classification:** Contributed talks - Theory

Contribution ID: 28

Type: **not specified**

## Charged Higgs in Next-to-MSSM

*Wednesday 17 September 2008 09:40 (15 minutes)*

**Presenter:** ABDESSLAM, Arhrib (Faculte des sciences et techniques)

**Session Classification:** Contributed talks - Theory

Contribution ID: 29

Type: **not specified**

## **CP violation in charged Higgs decays in MSSM**

*Wednesday 17 September 2008 10:00 (15 minutes)*

**Presenter:** CHRISTOVA, Ekaterina

**Session Classification:** Contributed talks - Theory

Contribution ID: **30**

Type: **not specified**

## **CP-violation in charged Higgs boson production at the LHC**

*Wednesday 17 September 2008 10:20 (15 minutes)*

**Presenter:** GININA, Elena

**Session Classification:** Contributed talks - Theory

Contribution ID: 31

Type: **not specified**

## **The charged Higgs in the MSSM: Experimental Reach and Theory Accuracy**

*Wednesday 17 September 2008 11:10 (15 minutes)*

**Presenter:** HEINEMEYER, Sven (CERN)

**Session Classification:** Contributed talks - Phenomenology and MC

Contribution ID: **32**

Type: **not specified**

## **SuperIso program and flavor data constraints**

*Wednesday 17 September 2008 11:30 (15 minutes)*

**Presenter:** MAHMOUDI, Nazila (Uppsala University)

**Session Classification:** Contributed talks - Phenomenology and MC

Contribution ID: 33

Type: **not specified**

## **Constraints on charged Higgs bosons in the CMSSM and NUHM models**

*Wednesday 17 September 2008 11:50 (15 minutes)*

**Presenter:** STÅL, Oscar (Uppsala University)

**Session Classification:** Contributed talks - Phenomenology and MC



Contribution ID: 35

Type: **not specified**

## **ATLAS Trigger Performance and Initial Running**

*Wednesday 17 September 2008 14:00 (15 minutes)*

**Presenter:** WINKLMEIER, Frank (CERN)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 36

Type: **not specified**

## **Status and performance of the ATLAS tau trigger**

*Wednesday 17 September 2008 14:20 (15 minutes)*

**Presenter:** BRENNER, Richard (University of Uppsala)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 37

Type: **not specified**

## **Tau Lepton Reconstruction and Identification with the ATLAS Detector at the LHC**

*Wednesday 17 September 2008 14:40 (15 minutes)*

**Presenter:** SAAVEDRA, Aldo (Falkiner High Energy Department - School of Physics - University)

**Session Classification:** Contributed talks - Experiment

Contribution ID: **38**

Type: **not specified**

## **Tau Lepton Reconstruction and Identification with CMS**

*Wednesday 17 September 2008 15:00 (15 minutes)*

**Presenter:** LUSITO, Letizia (Universita & INFN, Bari)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 39

Type: **not specified**

## **Hadronic tau jet reconstruction with particle flow algorithm at CMS**

*Wednesday 17 September 2008 15:20 (15 minutes)*

**Presenter:** WENDLAND, Lauri Andreas (Helsinki Institute of Physics (HIP) - Univ. of Helsinki, Fac. of)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 40

Type: **not specified**

## Indirect Searches from BABAR

*Wednesday 17 September 2008 15:40 (15 minutes)*

**Presenter:** ROBERTSON, Steven (McGill)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 41

Type: **not specified**

## Vacuum Stability in Two-Higgs Doublet Models

*Thursday 18 September 2008 09:00 (15 minutes)*

**Presenter:** SANTOS, Rui

**Session Classification:** Contributed talks - Theory

Contribution ID: 42

Type: **not specified**

## Phase transitions in 2HDM

*Thursday 18 September 2008 09:20 (15 minutes)*

**Presenter:** KONSTANTIN, Kanishchev (University of Warsaw)

**Session Classification:** Contributed talks - Theory



Contribution ID: 43

Type: **not specified**

## **On distinguishing the direct and spontaneous CP violation in 2HDM**

*Thursday 18 September 2008 09:40 (15 minutes)*

**Presenter:** SOKOLOWSKA, Dorota (University of Warsaw)

**Session Classification:** Contributed talks - Theory

Contribution ID: 44

Type: **not specified**

## Constraining the Inert Doublet Model

*Thursday 18 September 2008 10:00 (15 minutes)*

**Presenter:** KRAWCZYK, Maria (Warsaw University of Technology)

**Session Classification:** Contributed talks - Theory

Contribution ID: 45

Type: **not specified**

## **Doubly Charged Higgs in 3-3-1 model at the CERN LHC**

*Thursday 18 September 2008 10:20 (15 minutes)*

**Presenter:** CORTEZ, Nelson V.

**Session Classification:** Contributed talks - Theory

Contribution ID: 46

Type: **not specified**

## **Cross-sections and Branching Ratios for H+ Searches**

*Thursday 18 September 2008 11:10 (15 minutes)*

**Presenter:** SOPCZAK, Andre (Physics Department)

**Session Classification:** Contributed talks - Phenomenology and MC

Contribution ID: 47

Type: **not specified**

## Charged Higgs effects on top spin correlations

*Thursday 18 September 2008 11:30 (15 minutes)*

**Presenter:** Mr ERIKSSON, David (Uppsala University)

**Session Classification:** Contributed talks - Phenomenology and MC

Contribution ID: 48

Type: **not specified**

## **MadWeight: automatic event reweighting with matrix elements**

*Thursday 18 September 2008 11:50 (15 minutes)*

**Presenter:** OLIVIER, Mattelaer

**Session Classification:** Contributed talks - Phenomenology and MC

Contribution ID: 49

Type: **not specified**

## **Charged Higgs bosons at the Compact Linear Collider**

*Wednesday 17 September 2008 12:10 (15 minutes)*

**Presenter:** CONLAVITIS, Elias (IKP, Uppsala Universitet)

**Session Classification:** Contributed talks - Phenomenology and MC

Contribution ID: 50

Type: **not specified**

## **b-tagging at LHC: expected performance and its calibration in data**

*Thursday 18 September 2008 14:00 (15 minutes)*

**Presenter:** PIACQUADIO, Nicola Giacinto (Unknown)

**Session Classification:** Contributed talks - Experiment



Contribution ID: 51

Type: **not specified**

## **Data-driven Methods for the Estimation of $t\bar{t}b\bar{b}$ Backgrounds to charged Higgs searches**

*Thursday 18 September 2008 14:20 (15 minutes)*

**Presenter:** VICKEY, Trevor (University of Wisconsin)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 52

Type: **not specified**

## **Charged Higgs searches in the leptonic tau channel**

*Thursday 18 September 2008 14:40 (15 minutes)*

**Presenter:** OFER, Vitells (Weizmann Institute of Science)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 53

Type: **not specified**

## **Light H+ searches in the Hadronic Mode with ATLAS ( $t\bar{t}$ -> $bH$ $bW$ -> $b\tau(\text{had})\nu$ $bqq$ )**

*Thursday 18 September 2008 15:00 (15 minutes)*

**Presenter:** CONIAVITIS, Elias (IKP, Uppsala Universitet)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 54

Type: **not specified**

## **Searches for light $H^\pm$ Decaying to a Hadronic Tau in the one Lepton Mode with ATLAS ( $t\bar{t} \rightarrow bH^\pm bW^\pm \rightarrow b\tau(\text{had})\nu b\nu$ )**

*Thursday 18 September 2008 15:20 (15 minutes)*

**Presenter:** EHRICH, Thies (MPI Munich)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 55

Type: **not specified**

## **Statistical Combination of charged Higgs channels in ATLAS**

*Thursday 18 September 2008 15:40 (15 minutes)*

**Presenter:** OFER, Vitells (Weizmann Institute of Science)

**Session Classification:** Contributed talks - Experiment

Contribution ID: 56

Type: **not specified**

## **Anomaly of a Woman in Physics**

*Tuesday 16 September 2008 17:30 (30 minutes)*

Universities as cultural workplaces

**Presenter:** HASSE, Catherine

**Session Classification:** Afternoon session

Contribution ID: 57

Type: **not specified**

## **ATLAS MSSM Higgs Searches in SUSY Cascades**

*Thursday 18 September 2008 12:10 (15 minutes)*

**Presenter:** GENTILE, Simonetta (Universita di Roma I "La Sapienza")

**Session Classification:** Contributed talks - Phenomenology and MC

Contribution ID: 58

Type: **not specified**

## Discussion on benchmark points

*Wednesday 17 September 2008 16:30 (2 hours)*

**Presenter:** Dr MORETTI, Stefano (NExT Institute)

**Session Classification:** Breakout session