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

Tuesday, 16 September 2014 - Thursday, 18 September 2014 Uppsala

## **Book of Abstracts**

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

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#### Report from the LHC Higgs Cross Section Working Group

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#### H+ production and MC tools

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### Overview of H+ decays

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#### Contributed talk #1

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#### Contributed talk #2

#### MadGraph5\_aMC@NLO

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#### Automated Two Higgs Doublet Model at NLO

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### Cosmology and dark matter with an extended Higgs sector

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### EW baryogenesis

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#### A light NMSSM pseudoscalar at the LHC redux

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### Bounds on Neutral and Charged Higgs from the LHC

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## Prospects for BSM Higgs searches at future colliders

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

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#### **Summary and outlook**

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

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Contributed talk #10

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

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

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