

Session Program

23-29 Aug 2015

**SUSY 2015, 23rd International Conference on
Supersymmetry and Unification of
Fundamental Interactions**

Higgs Expt., Theory and Phenomenology

Lake Tahoe
725 Granlibakken Road, Tahoe City, California

Monday 24 August

14:30

Higgs Expt., Theory and Phenomenology

Session | **Location:** Lake | **Conveners:** Attilio Andreazza, Jamie Tattersall

14:30–15:00 **Status of MSSM (BSM) XS and BR calculations**

Speaker

Heather Logan

15:00–15:20 **BSM Higgs searches with the CMS experiment**

Speaker

Roberto Castello

15:20–15:40

Search for the pseudoscalar Higgs boson A of two Higgs doublet models (2HDM) with the ATLAS detector

Speaker

Matteo Bauce

16:00

16:30

Higgs Expt., Theory and Phenomenology

Session | **Location:** Lake | **Convener:** Roberto Castello

16:30–16:50 **Partially Natural Two Higgs Doublet Models**

Speaker

Howard Haber

16:50–17:10

Combination of the 125 Higgs Boson Properties Measurements using the ATLAS Detector

Speaker

Petar Kevin Rados

17:10–17:30 **Study of Higgs bosons decaying to bottom quarks at CMS**

Speaker

Sara Alderweireldt

17:30–17:50 **Probe the Electroweak Phase Transition at the LHC**

Speaker

Peisi Huang

17:50–18:10 **Phenomenology of Induced Electroweak Symmetry Breaking**

Speaker

Spencer Chang

18:10–18:40 **Higgs constraints on left-right supersymmetry**

Speaker

Harri Waltari

18:40

Tuesday 25 August

14:30

Higgs Expt., Theory and Phenomenology

Session | **Location:** Lake | **Conveners:** Maria Moreno Llacer, Sven Heinemeyer

14:30–15:00 **kappa, EFT ... status and prospects**

Speaker
Cen Zhang

15:00–15:20

Constraints on new phenomena through Higgs coupling measurements with the ATLAS detector

Speaker
Lydia Brenner

15:20–15:40

Scrutinizing the Alignment Limits in the Two Higgs Doublet Models

Speaker
Jérémy Bernon

15:40–16:00

Higgs boson properties in bosonic final states at CMS

Speaker
Donald Austin Belknap

16:00

16:30

Higgs Expt., Theory and Phenomenology

Session | **Location:** Lake | **Conveners:** Bohdan Grzadkowski, Stephen Martin

16:30–16:50 **Latest results on the Higgs boson in the diphoton decay channel**

Speaker
Florian Bernlochner

16:50–17:10

Classically conformal U(1)' extended Standard Model and Higgs vacuum stability

Speaker
Daisuke Takahashi

17:10–17:30

The low energy theories of the Higgs sector

Speaker
Daniel Egana-Ugrinovic

17:30–17:50

Search for the Higgs boson in the ttH production channel using the ATLAS detector

Speaker
Julian Michael Bouffard

17:50–18:10

Trilinear Higgs self-couplings in $S(3)SM$

Speaker
Dr Ezequiel Rodriguez Jauregui

18:10-18:40

Status of Higgs coupling strength determination from ATLAS and CMS

Speaker

Maria Moreno Llacer

18:40

Thursday 27 August

14:00

Higgs Expt., Theory and Phenomenology

Session | **Location:** Lake | **Conveners:** Petra Merkel, LianTao Wang

14:00–14:30 **ATLAS and CMS Prospects for Higgs Physics at the HL-LHC**

Speaker

Adrian Perieanu

14:30–14:50 **Light Charged Higgs Bosons to AW/HW via Top Decay**

Speaker

Adarsh Pyarelal

14:50–15:10 **Study of Higgs bosons decaying to leptons at CMS**

Speaker

Cecile Sarah Caillol

15:10–15:30

Dilepton constraints in the Inert Doublet Model from Run 1 of the LHC

Speaker

Sabine Kraml

15:30–16:00

Exclusive Radiative Higgs Decays as Probes of Non-Standard Yukawa Couplings

Speaker

Prof. Matthias Neubert

16:00

16:30

Higgs Expt., Theory and Phenomenology

Session | **Location:** Lake | **Convener:** Florian Urs Bernlochner

16:30–16:50 **Search for high mass Higgs-like bosons at CMS**

Speaker

Petra Merkel

16:50–17:10 **Heavy Higgs Bosons at 14 and 100 TeV**

Speaker

Jan Hajer

17:10–17:30 **Charged Higgs boson searches with the ATLAS detector**

Speaker

Geoffrey Gilles

17:50–18:10 **Searches for charged Higgs boson with the CMS experiment**

Speaker

Gouranga Kole

18:10

Friday 28 August

14:00

Higgs Expt., Theory and Phenomenology

Session | **Location:** Lake | **Conveners:** Joseph David Lykken, Rick Cavanaugh

14:20–14:50 **Singlet-like Higgs bosons: models and phenomenology**

Speaker

Andrea Tesi

14:50–15:20

Searches for exotic decays of the 125 GeV Higgs boson and the lightest neutral Higgs boson in NMSSM with the ATLAS detector

Speaker

Kristina Anne Looper

15:20–15:40 **Cutting into Higgs pairs**

Speaker

Ahmed Ismail

15:40–16:00 **Heavy Higgs pure resonance dips in MSSM/2HDM**

Speaker

Sunghoon Jung

16:00

16:30

Higgs Expt., Theory and Phenomenology

Session | **Convener:** Thomas Rizzo

16:50–17:10 **Search for a high mass neutral Higgs boson using the ATLAS detector**

Speaker

Graham Cree

17:10–17:30 **Simplified Models for Higgs Physics Studies**

Speaker

JoAnne Hewett

17:30–17:50

Search for supersymmetric neutral Higgs bosons using the LHC run 1 data recorded by CMS

Speaker

Francesca Ricci-Tam

17:50