

**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  $t\bar{t}H$  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

18:40

18:10-18:40

## Status of Higgs coupling strength determination from ATLAS and CMS

### Speaker

Maria Moreno Llacer

# 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