

Session Program

Aug 3 - 10, 2016



38th INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS

AUGUST 3 - 10, 2016
CHICAGO

ICHEP 2016 Chicago

Higgs Physics

Chicago IL USA
Sheraton Grand Chicago 301 East Water Street Chicago IL 60611 USA

Thu, August 4

9:00 AM

Higgs Physics: 1

Session | **Location:** Chicago 9, Sheraton Grand Chicago 301 East Water Street Chicago IL 60611 USA |
Conveners: Stefania Gori, Kirill Prokofiev

9:00 – 9:20 AM **Determination of the total LHC Higgs boson Cross Section (15' + 5')**

Speaker

Dr Franz Herzog

9:20 – 9:35 AM

Measurement of cross sections and couplings of the SM Higgs boson in the diphoton decay channel using the ATLAS detector (12' + 3')

Speaker

Andrew Pilkington

9:35 – 9:50 AM

Measurements of Higgs boson production and properties in the di-photon decay channel using the CMS detector (12' + 3')

Speaker

Vittorio Raoul Tavolaro

9:50 – 10:05 AM

Measurement of cross sections and couplings of the SM Higgs boson in the ZZ decay channel using the ATLAS detector (12' + 3')

Speaker

Ludovica Aperio Bella

10:05 – 10:20 AM

Measurements of Higgs boson production and properties in the ZZ decay channel using the CMS detector (12' + 3')

Speaker

Simon Regnard

10:20 – 10:35 AM

Measurement of cross sections and couplings of the SM Higgs boson in the WW decay channel using the ATLAS detector (12' + 3')

Speaker

Claudia Bertella

10:35 – 10:50 AM

Measurements of Higgs boson production and properties in the WW decay channel using the CMS detector (12' + 3')

Speaker

Andrea Massironi

11:00 AM

11:20 AM

Higgs Physics: 2

Session | **Location:** Chicago 9 | **Conveners:** Stefania Gori, Kirill Prokofiev

11:20 - 11:35 AM

Measurement of fermionic couplings of the SM Higgs boson using the leptonic decay channels with the ATLAS detector (12' + 3')

Speaker

Dr Christian Grefe

11:35 - 11:50 AM

Measurements of Higgs boson production and properties in the di-lepton decay channel using the CMS detector (12' + 3')

Speaker

Pooja Saxena

11:50 AM - 12:05 PM

Search for the SM Higgs boson in VH(bb) channel using the ATLAS detector (12' + 3')

Speaker

Patricia Conde Muino

12:05 - 12:20 PM

Measurements of Higgs boson production and properties in the bbbar decay channel using the CMS detector (12' + 3')

Speaker

Chris Palmer

12:20 - 12:35 PM

Search for the SM Higgs boson in the ttH production channel using the ATLAS detector. (12' + 3')

Speaker

John Stakely Keller

12:35 - 12:50 PM

Search for Higgs bosons produced in association with top quarks in the CMS detector (12' + 3')

Speaker

Marco Peruzzi

12:50 - 1:10 PM

Determination of the Higgs boson properties with the ATLAS detector. (15' + 5')

Speaker

Bertrand Laforge

1:10 - 1:30 PM

Combined results of the 125 GeV Higgs boson on the mass, tensor structure, and couplings measured by the CMS detector (15' + 5')

Speaker

Ulascan Sarica

1:30 PM

5:00 PM

Higgs Physics: 3**Session** | **Location:** Chicago 10 | **Conveners:** Kirill Prokofiev, Stefania Gori

5:00 – 5:20 PM

Tools for Higgs Boson Properties with the JHUGen / MELA Framework (15' + 5')**Speaker**

Dr Meng Xiao

5:20 – 5:40 PM

Constraints on the Standard Model dimension 6 effective Lagrangian with HEPfit (15' + 5')**Speaker**

Dr Jorge de Blas

5:40 – 6:00 PM

SMEFT, a theory for SM deviations (15' + 5')**Speaker**

Prof. Giampiero Passarino

6:00 – 6:20 PM

Higgs productions in the gluon fusion channel: a complete EFT analysis (15' + 5')**Speaker**

Ayan Paul

6:20 – 6:40 PM

Higgs off-shell effects at NLO (15' + 5')**Speaker**

Raoul Rontsch

6:40 – 7:00 PM

Role of low-energy observables in precision Higgs boson analyses (15' + 5')**Speaker**

Alexey Petrov

7:00 PM

Fri, August 5

11:30 AM

Higgs Physics: 4

Session | **Location:** Chicago 10 | **Conveners:** Kirill Prokofiev, Stefania Gori

11:30 - 11:50 AM

Searches for double Higgs production or decay using the CMS detector (15' + 5')

Speaker

Giacomo Ortona

11:50 AM - 12:10 PM

Search for di-Higgs production with the ATLAS detector (15' + 5')

Speaker

Tulin Varol

12:10 - 12:30 PM

Single Higgs production at LHC as a probe for an anomalous Higgs self coupling (15' + 5')

Speaker

Dr Pier Paolo Giardino

12:30 - 12:50 PM

Search for invisible decay modes of the Higgs boson with the ATLAS detector. (15' + 5')

Speaker

Monica Trovatelli

12:50 - 1:10 PM

Search for invisible decays of the 125 GeV Higgs boson using the CMS detector (15' + 5')

Speaker

Nicholas Wardle

1:10 - 1:30 PM

Search for high mass Higgs bosons using the ATLAS detector (15' + 5')

Speaker

Karsten Koeneke

1:30 - 1:50 PM

Searches for high-mass neutral Higgs bosons using the CMS detector (15' + 5')

Speaker

Dr Benedikt Vormwald

1:50 PM

2:25 PM

Higgs Physics: 5

Session | **Location:** Chicago 9 | **Conveners:** Stefania Gori, Kirill Prokofiev

2:25 - 2:45 PM

Phenomenology of sequestered mass generation (15' + 5')

Speaker

Wolfgang Altmannshofer

2:45 – 3:05 PM **New Signatures of Flavor Violating Higgs Couplings (15' + 5')****Speaker**

Xiaoping Wang

3:05 – 3:25 PM

Search for non-standard and rare decays of the Higgs boson with the ATLAS detector. (15' + 5')**Speaker**

Davide Gerbaudo

3:25 – 3:45 PM

Search for exotic decays of the 125 GeV Higgs boson using the CMS detector (15' + 5')**Speaker**

Maria Cepeda Hermida

3:45 – 4:00 PM

Search for the decay of the Higgs boson into two nMSSM pseudo-scalar particles. (12' + 3')**Speaker**

Lidija Zivkovic

4:00 – 4:15 PM

Searches for low-mass neutral Higgs bosons using the CMS detector (12' + 3')**Speaker**

Camilo Andres Carrillo Montoya

4:15 – 4:30 PM

Simplified Models for Higgs Physics: Singlet Scalar and Vector-like Quark Phenomenology (12' + 3')**Speaker**

Dr Thomas Rizzo

4:30 PM

5:00 PM

Higgs Physics: 6**Session** | **Location:** Chicago 9 | **Conveners:** Kirill Prokofiev, Stefania Gori

5:00 – 5:20 PM

Production of heavy Higgs bosons and decay into top quarks at the LHC (15' + 5')**Speaker**

Peter Galler

5:20 – 5:35 PM

Challenges and opportunities of ttbar resonance search at the LHC (12' + 3')**Speaker**

Zhen Liu

5:35 – 5:50 PM

Interference effects in BSM Higgs searches (12' + 3')**Speaker**

Elina Fuchs

5:50 - 6:10 PM

Search for a high mass Z-photon resonance using the ATLAS detector (15' + 5')

Speaker

Giovanni Marchiori

6:10 - 6:30 PM

Search of a high mass neutral Higgs boson in fermion final states with the ATLAS detector. (15' + 5')

Speaker

Trevor Vickey

6:30 - 6:50 PM

Search for a Higgs boson decaying to ZH or ZA at CMS (15' + 5')

Speaker

Alexandre Jean N Mertens

7:00 PM

Sat, August 6

9:00 AM

Higgs Physics: 7

Session | **Location:** Chicago 9 | **Conveners:** Kirill Prokofiev, Stefania Gori

9:00 – 9:15 AM

Searches for charged Higgs bosons using the CMS detector (12' + 3')

Speaker

Andrea Carlo Marini

9:15 – 9:30 AM

Charged Higgs boson searches with the ATLAS detector (12' + 3')

Speaker

Carl Bryan Gwilliam

9:30 – 9:45 AM

ATLAS Higgs physics prospects at the high luminosity LHC (12' + 3')

Speaker

Thomas Koffas

9:45 – 10:10 AM

Higgs physics in pp collisions at 100 TeV (20' + 5')

Speaker

Michelangelo Mangano

10:10 – 10:30 AM

Higgs Physics at CEPC (15' + 5')

Speaker

Manqi Ruan

10:30 – 10:50 AM

Higgs physics at the LHeC and FCC-he (15' + 5')

Speaker

Bruce Mellado Garcia

10:50 AM

11:05 AM

Higgs Physics: 8

Session | **Location:** Chicago 9 | **Conveners:** Stefania Gori, Kirill Prokofiev

11:05 – 11:25 AM

Higgs physics at CLIC (15' + 5')

Speaker

Strahinja Lukic

11:25 – 11:40 AM

probe the electroweak phase transition from the precision hZZ coupling measurement at future colliders (12' + 3')

Speaker

Peisi Huang

11:40 AM – 12:00 PM

CEPC benchmark analyses: Higgs recoil analysis and Higgs width measurement (15' + 5')

Speaker

Zhenxing Chen

12:00 - 12:15 PM

Singlet-Catalyzed Electroweak Phase Transitions in the 100 TeV Frontier (12' + 3')

Speaker

Dr Peter Winslow

12:15 - 12:30 PM

Higgs measurements at the Future Circular Colliders (12' + 3')

Speaker

David d'Enterria

12:30 - 12:55 PM

Measurement of the Higgs self-coupling at the ILC (20' + 5')

Speaker

Jan Fridolf Strube

1:00 PM