

Higgs Couplings 2015

Report of Contributions

Contribution ID: 0

Type: **not specified**

ggF Theory overview for highest precision

Monday, October 12, 2015 9:00 AM (35 minutes)

Presenter: HERZOG, Franz

Session Classification: High precision tools and calculations for ggF

Contribution ID: 1

Type: **not specified**

Uncertainties in ggF: PDFs, α_S

Monday, October 12, 2015 9:35 AM (35 minutes)

Presenter: Prof. FORTE, Stefano (Milan University)

Session Classification: High precision tools and calculations for ggF

Contribution ID: 2

Type: **not specified**

Higgs mass and width combination (ATLAS+CMS)

Monday, October 12, 2015 2:30 PM (35 minutes)

Presenter: GIOTIS, Iasonas Topsis

Session Classification: Higgs profile: mass, spin, parity, couplings

Contribution ID: 3

Type: **not specified**

Higgs boson spin/parity (ATLAS+CMS)

Monday, October 12, 2015 3:05 PM (35 minutes)

Presenter: KOVAC, Marko

Session Classification: Higgs profile: mass, spin, parity, couplings

Contribution ID: 4

Type: **not specified**

Higgs boson couplings (ATLAS+CMS)

Monday, October 12, 2015 3:40 PM (35 minutes)

Presenter: GRIMM, Kathryn

Session Classification: Higgs profile: mass, spin, parity, couplings

Contribution ID: 5

Type: **not specified**

Higgs boson interactions with the gauge sector (ATLAS)

Monday, October 12, 2015 11:15 AM (35 minutes)

Presenter: KISHIMOTO, Tomoe

Session Classification: Interactions with the gauge sector

Contribution ID: 6

Type: **not specified**

Higgs boson interactions with the gauge sector (CMS)

Monday, October 12, 2015 11:50 AM (35 minutes)

Presenter: JANSSEN, Xavier

Session Classification: Interactions with the gauge sector

Contribution ID: 7

Type: **not specified**

Higgs boson exclusive analysis and differential distributions (ATLAS+CMS)

Monday, October 12, 2015 12:25 PM (35 minutes)

Presenter: FASSOULIOTIS, Dimitrios

Session Classification: Interactions with the gauge sector

Contribution ID: 8

Type: **not specified**

Searches for BSM effects in Higgs boson decays (ATLAS+CMS)

Tuesday, October 13, 2015 4:15 PM (35 minutes)

Presenter: RUBBO, Francesco

Session Classification: Higgs boson decays and BSM prospects

Contribution ID: 9

Type: **not specified**

BSM Higgs interactions and decays (ATLAS+CMS)

Contribution ID: **10**

Type: **not specified**

Exotic Higgs boson decays (Theory)

Contribution ID: 11

Type: **not specified**

Higgs portal, its phenomenology and (cosmological) implications (Theory)

Wednesday, October 14, 2015 11:15 AM (35 minutes)

Presenter: BATELL, Brian

Session Classification: BSM Higgs bosons II

Contribution ID: 12

Type: **not specified**

Higgs boson boosted topologies: Theory

Tuesday, October 13, 2015 5:20 PM (35 minutes)

Presenter: ENGLERT, Christoph

Session Classification: Tools for Run - II

Contribution ID: 13

Type: **not specified**

Analysis techniques for boosted Higgs bosons, ME method etc. (ATLAS+CMS)

Tuesday, October 13, 2015 5:55 PM (35 minutes)

Presenter: GEROSA, Raffaele Angelo

Session Classification: Tools for Run - II

Contribution ID: 14

Type: **not specified**

Call for tools for RUN II (ATLAS+CMS)

Tuesday, October 13, 2015 6:30 PM (35 minutes)

Presenter: PIANORI, Elisabetta

Session Classification: Tools for Run - II

Contribution ID: 15

Type: **not specified**

Off-shell measurements (ATLAS+CMS)

Contribution ID: 16

Type: **not specified**

Off-shell measurements (Theory)

Monday, October 12, 2015 4:15 PM (35 minutes)

Presenter: ELLIS, Keith

Session Classification: Higgs profile: mass, spin, parity, couplings

Contribution ID: 17

Type: **not specified**

Interactions with the matter sector (ATLAS)

Contribution ID: **18**

Type: **not specified**

Interactions with the matter sector (CMS)

Contribution ID: **19**

Type: **not specified**

Invisible Higgs boson decays in WBF

Contribution ID: 20

Type: **not specified**

The resummed Higgs pt spectrum

Monday, October 12, 2015 10:10 AM (35 minutes)

Presenter: CIERI, Leandro

Session Classification: High precision tools and calculations for ggF

Contribution ID: 21

Type: **not specified**

Results for ttH (ATLAS)

Tuesday, October 13, 2015 9:00 AM (35 minutes)

Presenter: DAO, Valerio

Session Classification: Interactions with the matter sector

Contribution ID: 22

Type: **not specified**

Precision MC for ggF

Tuesday, October 13, 2015 11:15 AM (35 minutes)

Presenter: Mr HOECHE, Stefan (University of Zurich)

Session Classification: Precision MC tools

Contribution ID: 23

Type: **not specified**

MC for WBS-type and VH processes

Tuesday, October 13, 2015 11:50 AM (35 minutes)

Presenter: ZEPPENFELD, Dieter

Session Classification: Precision MC tools

Contribution ID: 24

Type: **not specified**

MC for ttH and SM backgrounds

Tuesday, October 13, 2015 12:25 PM (35 minutes)

Presenter: POZZORINI, Stefano

Session Classification: Precision MC tools

Contribution ID: 25

Type: **not specified**

Searches for Higgs bosons in extended scalar sectors (ATLAS+CMS)

Wednesday, October 14, 2015 9:00 AM (35 minutes)

Presenter: STEGGEMANN, Jan

Session Classification: Session 9

Contribution ID: 26

Type: **not specified**

Theory of Higgs bosons in extended scalar sectors

Wednesday, October 14, 2015 9:35 AM (35 minutes)

Presenter: YOKOYA, Hiroshi

Session Classification: Session 9

Contribution ID: 27

Type: **not specified**

Charged Higgs boson production and decay

Contribution ID: 28

Type: **not specified**

Invisible Higgs decays (ATLAS+CMS)

Tuesday, October 13, 2015 3:40 PM (35 minutes)

Presenter: TSUNO, Soshi

Session Classification: Higgs boson decays and BSM prospects

Contribution ID: 29

Type: **not specified**

Higgs boson self-interactions in SM and BSM (ATLAS+CMS)

Tuesday, October 13, 2015 10:10 AM (35 minutes)

Presenter: SALERNO, Roberto

Session Classification: Interactions with the matter sector

Contribution ID: **30**

Type: **not specified**

Pseudo-observables (ATLAS+CMS)

Contribution ID: **31**

Type: **not specified**

EFT in the Higgs sector

Monday, October 12, 2015 6:30 PM (35 minutes)

Presenter: TROTT, Michael

Session Classification: Interactions with the matter sector

Contribution ID: 32

Type: **not specified**

Model building implications: What have we learned so far?

Wednesday, October 14, 2015 3:10 PM (20 minutes)

Presenter: SHAH, Nausheen

Session Classification: Hot topics

Contribution ID: 33

Type: **not specified**

Precision Higgs boson decays in SM

Tuesday, October 13, 2015 2:30 PM (35 minutes)

Presenter: MUECK, Alexander

Session Classification: Higgs boson decays and BSM prospects

Contribution ID: 34

Type: **not specified**

Precision Higgs boson decays in BSM

Tuesday, October 13, 2015 3:05 PM (35 minutes)

Presenter: MUEHLEITNER, Margarete

Session Classification: Higgs boson decays and BSM prospects

Contribution ID: 35

Type: **not specified**

Higgs bosons at future lepton colliders

Thursday, October 15, 2015 9:00 AM (1 hour)

Presenter: KLUTE, Markus

Session Classification: Future colliders

Contribution ID: 36

Type: **not specified**

Higgs bosons at future hadron colliders

Thursday, October 15, 2015 10:00 AM (1 hour)

Presenter: PLEHN, Tilman

Session Classification: Future colliders

Contribution ID: 37

Type: **not specified**

Interactions with the matter sector (ATLAS)

Monday, October 12, 2015 5:20 PM (35 minutes)

Presenter: GRAY, Heather

Session Classification: Interactions with the matter sector

Contribution ID: **38**

Type: **not specified**

Interactions with the matter sector (CMS)

Monday, October 12, 2015 5:55 PM (35 minutes)

Presenter: Mr DE GRUTTOLA, Michele (cern)

Session Classification: Interactions with the matter sector

Contribution ID: 39

Type: **not specified**

Results for ttH (CMS)

Tuesday, October 13, 2015 9:35 AM (35 minutes)

Presenter: GILBERT, Andrew

Session Classification: Interactions with the matter sector

Contribution ID: 40

Type: **not specified**

Interpretations of multilepton excesses in ttH searches

Wednesday, October 14, 2015 2:50 PM (20 minutes)

Presenter: ISMAIL, Ahmed

Session Classification: Hot topics

Contribution ID: 41

Type: **not specified**

Outlook for SUSY/BSM in Run-2 (ATLAS)

Wednesday, October 14, 2015 11:50 AM (35 minutes)

Presenter: ISSEVER, Cigdem

Session Classification: BSM Higgs bosons II

Contribution ID: 42

Type: **not specified**

Outlook for SUSY/BSM in Run-2 (CMS)

Wednesday, October 14, 2015 12:25 PM (35 minutes)

Presenter: FLACHER, Henning

Session Classification: BSM Higgs bosons II

Contribution ID: 43

Type: **not specified**

Charged Higgs bosons: Theory

Wednesday, October 14, 2015 2:30 PM (20 minutes)

Presenter: ZARO, Marco

Session Classification: Hot topics

Contribution ID: 44

Type: **not specified**

Pair production of Higgs boson in SM and BSM

Wednesday, October 14, 2015 10:10 AM (35 minutes)

Presenter: SPANNOWSKY, Michael (Durham)

Session Classification: Session 9

Contribution ID: 45

Type: **not specified**

Short presentation by ATLAS: Search for the bb decay of the SM Higgs boson in associated (W/Z)H production with the ATLAS detector

Wednesday, October 14, 2015 3:30 PM (15 minutes)

Presenter: BUESCHER, Daniel

Session Classification: Hot topics

Contribution ID: 46

Type: **not specified**

Short presentation by ATLAS: ttH, H->bb

Wednesday, October 14, 2015 4:00 PM (15 minutes)

Presenter: CONNELLY, Ian

Session Classification: Hot topics

Contribution ID: 47

Type: **not specified**

Short presentation by ATLAS: H -> tau tau, beyond evidence

Wednesday, October 14, 2015 3:45 PM (15 minutes)

Presenter: LIEBAL, Jessica Kristina

Session Classification: Hot topics

Contribution ID: 48

Type: **not specified**

Short presentation by CMS: Search for Lepton Flavour Violating Higgs Decays

Wednesday, October 14, 2015 4:15 PM (15 minutes)

Presenter: VANHOEFER, Annika

Session Classification: Hot topics

Contribution ID: 49

Type: **not specified**

Short presentation from CMS: Search for a Higgs-like boson decaying to WW or ZZ in the mass range between 145 GeV and 1 TeV

Wednesday, October 14, 2015 4:30 PM (15 minutes)

Presenter: BRIANZA, Luca

Session Classification: Hot topics

Contribution ID: 50

Type: **not specified**

Short presentation from CMS: Higgs boson properties using $H \rightarrow 4l$: lifetime and quantum numbers

Wednesday, October 14, 2015 4:45 PM (15 minutes)

Presenter: YOU, Can

Session Classification: Hot topics