

**The 15th Workshop of the
LHC Higgs Cross Section
Working Group**

Report of Contributions

Contribution ID: 1

Type: **not specified**

ATLAS+CMS searches of ggF in boosted regime

Monday, December 10, 2018 9:00 AM (15 minutes)

Presenter: TEIXEIRA DE LIMA, Rafael (SLAC National Accelerator Laboratory (US))

Session Classification: WG1

Contribution ID: 2

Type: **not specified**

Discussion

Monday, December 10, 2018 9:15 AM (5 minutes)

Session Classification: WG1

Contribution ID: 3

Type: **not specified**

ggF recent theory developments

Monday, December 10, 2018 9:20 AM (15 minutes)

Presenter: MONNI, Pier Francesco (CERN)

Session Classification: WG1

Contribution ID: 4

Type: **not specified**

Discussion

Monday, December 10, 2018 9:35 AM (5 minutes)

Session Classification: WG1

Contribution ID: 5

Type: **not specified**

Uncertainty scheme for VBF STXS Bins

Monday, December 10, 2018 3:15 PM (20 minutes)

Presenter: HADDAD, Yacine (Northeastern University (US))

Session Classification: WG2

Contribution ID: 6

Type: **not specified**

Discussion

Session Classification: WG1

Contribution ID: 7

Type: **not specified**

Extra time for discussion on ggF and VBF

Monday, December 10, 2018 9:40 AM (5 minutes)

Session Classification: WG1

Contribution ID: 8

Type: **not specified**

VH recent experimental results

Monday, December 10, 2018 9:45 AM (15 minutes)

Presenter: PANDINI, Carlo Enrico (CERN)

Session Classification: WG1

Contribution ID: 9

Type: **not specified**

Discussion

Monday, December 10, 2018 10:00 AM (5 minutes)

Session Classification: WG1

Contribution ID: **10**

Type: **not specified**

VH recent theory developments (excluding STXS)

Monday, December 10, 2018 10:05 AM (15 minutes)

Presenter: RE, Emanuele (CERN)

Session Classification: WG1

Contribution ID: **11**

Type: **not specified**

Discussion

Monday, December 10, 2018 10:20 AM (5 minutes)

Session Classification: WG1

Contribution ID: 12

Type: **not specified**

Extra time for discussion on VH experiment and theory

Monday, December 10, 2018 10:25 AM (5 minutes)

Session Classification: WG1

Contribution ID: 13

Type: **not specified**

ttH recent experimental status

Monday, December 10, 2018 11:00 AM (15 minutes)

Presenter: STIEGER, Benjamin (University of Nebraska Lincoln (US))

Session Classification: WG1

Contribution ID: 14

Type: **not specified**

Discussion

Monday, December 10, 2018 11:15 AM (5 minutes)

Session Classification: WG1

Contribution ID: 15

Type: **not specified**

ttH recent theory developments

Monday, December 10, 2018 11:20 AM (15 minutes)

Presenter: POZZORINI, Stefano (UZH)

Session Classification: WG1

Contribution ID: **16**

Type: **not specified**

Discussion

Monday, December 10, 2018 11:35 AM (5 minutes)

Session Classification: WG1

Contribution ID: 17

Type: **not specified**

Extra time for discussion on ttH experiment and theory

Monday, December 10, 2018 11:40 AM (5 minutes)

Session Classification: WG1

Contribution ID: **18**

Type: **not specified**

off-shell recent experimental results

Monday, December 10, 2018 11:45 AM (15 minutes)

Presenter: XIAO, Meng (Johns Hopkins University (US))

Session Classification: WG1

Contribution ID: **19**

Type: **not specified**

Discussion

Monday, December 10, 2018 12:00 PM (5 minutes)

Session Classification: WG1

Contribution ID: 20

Type: **not specified**

off-shell recent theory developments

Monday, December 10, 2018 12:05 PM (15 minutes)

Presenter: KAUER, Nikolas (RHUL)

Session Classification: WG1

Contribution ID: 21

Type: **not specified**

Discussion

Monday, December 10, 2018 12:20 PM (5 minutes)

Session Classification: WG1

Contribution ID: 22

Type: **not specified**

Extra time for discussion on off-shell experiment and theory

Monday, December 10, 2018 12:25 PM (5 minutes)

Session Classification: WG1

Contribution ID: 23

Type: **not specified**

Final-state interactions of the Higgs boson in quark-gluon matter

Monday, December 10, 2018 12:30 PM (15 minutes)

Presenter: D'ENTERRIA, David (CERN)

Session Classification: WG1

Contribution ID: 24

Type: **not specified**

Discussion

Monday, December 10, 2018 12:45 PM (5 minutes)

Session Classification: WG1

Contribution ID: 25

Type: **not specified**

Report from HL/HE-LHC Physics Workshop – WG 2: Higgs couplings (15+5)

Wednesday, December 12, 2018 9:00 AM (20 minutes)

Presenter: GILBERT, Andrew (CERN)

Session Classification: Wrap up

Contribution ID: 26

Type: **not specified**

Update on PDFs (10+5)

Wednesday, December 12, 2018 9:40 AM (15 minutes)

Presenter: UBIALI, Maria

Session Classification: Wrap up

Contribution ID: 27

Type: **not specified**

Summary WG1 (15+5)

Wednesday, December 12, 2018 10:20 AM (20 minutes)

Session Classification: Wrap up

Contribution ID: 28

Type: **not specified**

Summary WG2 (15+5)

Wednesday, December 12, 2018 11:20 AM (20 minutes)

Primary author: DELMASTRO, Marco (CNRS/IN2P3 LAPP)

Presenter: DELMASTRO, Marco (CNRS/IN2P3 LAPP)

Session Classification: Wrap up

Contribution ID: 29

Type: **not specified**

Summary WG3 (15+5)

Wednesday, December 12, 2018 12:00 PM (20 minutes)

Session Classification: Wrap up

Contribution ID: **30**

Type: **not specified**

Close-out

Wednesday, December 12, 2018 12:20 PM (10 minutes)

Session Classification: Wrap up

Contribution ID: **31**

Type: **not specified**

Introduction

Tuesday, December 11, 2018 3:00 PM (5 minutes)

Session Classification: WG3

Contribution ID: 32

Type: **not specified**

Extended Higgs Sectors

Tuesday, December 11, 2018 3:05 PM (45 minutes)

Presenter: LOGAN, Heather (Carleton University)

Session Classification: WG3

Contribution ID: **33**

Type: **not specified**

MSSM

Tuesday, December 11, 2018 3:50 PM (25 minutes)

Presenter: GILBERT, Andrew (CERN)

Session Classification: WG3

Contribution ID: **34**

Type: **not specified**

NMSSM

Tuesday, December 11, 2018 4:15 PM (25 minutes)

Presenters: ELLWANGER, Ulrich Bernhard (Université Paris-Saclay (FR)); ELLWANGER, Ulrich (University Paris 11)

Session Classification: WG3

Contribution ID: 35

Type: **not specified**

Exotic Higgs Decays

Tuesday, December 11, 2018 5:05 PM (25 minutes)

Presenter: MORVAJ, Ljiljana (Stony brook Universty (US))

Session Classification: WG3

Contribution ID: 36

Type: **not specified**

News from LHC DMWG and ATLAS/CMS DM results

Tuesday, December 11, 2018 5:30 PM (30 minutes)

Presenter: BRANDT, Oleg (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: WG3

Contribution ID: 37

Type: **not specified**

Higgs and Long-Lived Particles

Tuesday, December 11, 2018 6:00 PM (30 minutes)

Presenter: LEE JR, Lawrence (Harvard University (US))

Session Classification: WG3

Contribution ID: **38**

Type: **not specified**

WG2 introduction and overview

Monday, December 10, 2018 2:30 PM (15 minutes)

Presenter: HAYS, Chris (University of Oxford (GB))

Session Classification: WG2

Contribution ID: 39

Type: **not specified**

EFT benchmarks

Monday, December 10, 2018 5:05 PM (30 minutes)

Presenter: RIVA, Francesco (Universite de Geneve (CH))

Session Classification: WG2

Contribution ID: 40

Type: **not specified**

Status update on PO

Monday, December 10, 2018 4:35 PM (30 minutes)

Presenter: MARZOCCA, David (INFN Trieste)

Session Classification: WG2

Contribution ID: 41

Type: **not specified**

Report on STXS

Monday, December 10, 2018 2:45 PM (30 minutes)

Presenter: TACKMANN, Frank

Session Classification: WG2

Contribution ID: 42

Type: **not specified**

Discussion

Monday, December 10, 2018 3:55 PM (20 minutes)

Session Classification: WG2

Contribution ID: 43

Type: **not specified**

Report on EFT tools validation

Monday, December 10, 2018 5:35 PM (40 minutes)

Presenters: VRYONIDOU, Eleni (CERN); BRIVIO, Ilaria (University of Copenhagen)

Session Classification: WG2

Contribution ID: 44

Type: **not specified**

Extra contribution (TBD)

Session Classification: WG2

Contribution ID: 45

Type: **not specified**

Uncertainty scheme for VH STXS Bins

Monday, December 10, 2018 3:35 PM (20 minutes)

Presenter: CALVET, Thomas (Stony Brook University)

Session Classification: WG2

Contribution ID: 46

Type: **not specified**

Top-quark mass scheme uncertainties

Tuesday, December 11, 2018 9:00 AM (50 minutes)

Session Classification: Discussions: HH

Contribution ID: 47

Type: **not specified**

Higgs trilinear coupling from single Higgs

Tuesday, December 11, 2018 9:50 AM (50 minutes)

Session Classification: Discussions: HH

Contribution ID: 48

Type: **not specified**

BSM benchmarks for HH (with NMSSM and Extended WG3 subgroups)

Tuesday, December 11, 2018 10:40 AM (50 minutes)

Session Classification: Discussions: HH

Contribution ID: 49

Type: **not specified**

PS systematics

Tuesday, December 11, 2018 9:00 AM (1h 30m)

Session Classification: Discussions: WG1

Contribution ID: 50

Type: **not specified**

STXS binning & differential decay information (with WG1)

Tuesday, December 11, 2018 10:30 AM (1 hour)

Session Classification: Discussions: WG2

Contribution ID: 51

Type: **not specified**

EFT issues for global fits

Tuesday, December 11, 2018 9:00 AM (1h 30m)

Session Classification: Discussions: WG2

Contribution ID: 52

Type: **not specified**

MC for bbH

Tuesday, December 11, 2018 9:45 AM (45 minutes)

Session Classification: Discussions: bbH

Contribution ID: 53

Type: **not specified**

bbH for MSSM (with MSSM WG3 subgroup)

vidyo link here: <https://indico.cern.ch/event/780120/>

Session Classification: Discussions: bbH

Contribution ID: 54

Type: **not specified**

Prioritization of WG3 benchmarks

Tuesday, December 11, 2018 9:00 AM (1h 30m)

Session Classification: Discussions: WG3

Contribution ID: 55

Type: **not specified**

Exotics (+ LLP WG representatives)

Tuesday, December 11, 2018 10:30 AM (1 hour)

Session Classification: Discussions: WG3

Contribution ID: 56

Type: **not specified**

BSM benchmarks (with HH subgroup)

Session Classification: Discussions: WG3

Contribution ID: 57

Type: **not specified**

Report from HL/HE-LHC Physics Workshop – WG 2: HH projections (15+5)

Wednesday, December 12, 2018 9:20 AM (20 minutes)

Presenter: READIOFF, Nathan Peter (LPSC-Grenoble, CNRS/UGA (FR))

Session Classification: Wrap up

Contribution ID: 58

Type: **not specified**

EFT code benchmarking efforts (10+15)

Wednesday, December 12, 2018 9:55 AM (25 minutes)

Presenter: MANGANO, Michelangelo (CERN)

Session Classification: Wrap up

Contribution ID: 59

Type: **not specified**

Summary HH (15+5)

Wednesday, December 12, 2018 11:00 AM (20 minutes)

Session Classification: Wrap up

Contribution ID: **60**

Type: **not specified**

Summary bbH (15+5)

Wednesday, December 12, 2018 11:40 AM (20 minutes)

Session Classification: Wrap up

Contribution ID: **61**

Type: **not specified**

Experimental summary: Run II ATLAS+CMS combination and plans

Presenter: CADAMURO, Luca (University of Florida (US))

Session Classification: Discussions: HH

Contribution ID: 62

Type: **not specified**

Theoretical Summary (25+5)

Tuesday, December 11, 2018 11:45 AM (30 minutes)

Presenter: GROEBER, Ramona (HU Berlin)

Session Classification: HH

Contribution ID: 63

Type: **not specified**

Experimental summary (25+5)

Tuesday, December 11, 2018 12:15 PM (30 minutes)

Presenter: CADAMURO, Luca (University of Florida (US))

Session Classification: HH

Contribution ID: **64**

Type: **not specified**

bbH report

Tuesday, December 11, 2018 12:45 PM (30 minutes)

Presenter: WIESEMANN, Marius (CERN)

Session Classification: bbH