

# The Final HiggsTools Meeting



## Report of Contributions

Contribution ID: 0

Type: **not specified**

## **Computing radiative corrections in four dimensions**

*Tuesday, 12 September 2017 09:00 (30 minutes)*

**Presenter:** Prof. PITTAU, Roberto (U. of Granada)

Contribution ID: 1

Type: **not specified**

## **VBS studies in CMS**

*Tuesday, 12 September 2017 09:30 (30 minutes)*

**Presenter:** Ms GOMEZ-AMBROSIO, Raquel (University of Torino)

Contribution ID: 2

Type: **not specified**

## **Higgs decaying into photons measurements at CMS**

*Tuesday, 12 September 2017 10:00 (30 minutes)*

**Presenter:** Dr HADDAD, Yacine (Durham University /Imperial College London)

Contribution ID: 3

Type: **not specified**

## **Vidyo: Results on EW gauge boson and jet production (including sensitivity to PDFs)**

*Tuesday, 12 September 2017 11:00 (30 minutes)*

**Presenter:** Prof. RICHTER-WAS, Elzbieta

Contribution ID: 4

Type: **not specified**

## **Electron charge identification and study of the electroweak $W^\pm W^\pm jj$ production with the ATLAS detector at 13 TeV**

*Tuesday, 12 September 2017 11:30 (30 minutes)*

**Presenter:** GONELLA, Giulia (Freiburg University)

Contribution ID: 5

Type: **not specified**

## **Measurement of Higgs coupling to tau leptons and tau identification efficiency in ATLAS**

*Tuesday, 12 September 2017 12:00 (30 minutes)*

**Presenter:** MEGY, Theo (Freiburg University)

Contribution ID: 6

Type: **not specified**

## **Search for Higgs boson production in association with a pair of top-quarks with the Atlas detector, current status and outlook**

*Tuesday, 12 September 2017 14:00 (30 minutes)*

**Presenter:** Mr WOLF, Tim (Nikhef)



Contribution ID: 7

Type: **not specified**

## **Measuring the top-quark pole mass using $t\bar{t}+1\text{jet}$ events with ATLAS in 8 TeV pp collisions**

*Tuesday, 12 September 2017 14:30 (30 minutes)*

**Presenter:** Mr MELINI, Davide (Universidad de Granada)

Contribution ID: **8**

Type: **not specified**

## **ttH to Hbb at CMS**

*Tuesday, 12 September 2017 15:00 (30 minutes)*

**Presenter:** PATA, Josep (ETH Zurich)

Contribution ID: 9

Type: **not specified**

## Reception

Contribution ID: **10**

Type: **not specified**

## **From Complexity to Simplicity and Back**

*Tuesday, 12 September 2017 16:30 (1 hour)*

**Presenter:** Dr KRAUSS, frank (ipp durham)

Contribution ID: 11

Type: **not specified**

## **Numerical methods and applications to 2-loop calculations**

*Wednesday, 13 September 2017 09:00 (30 minutes)*

**Presenter:** Ms HEINRICH, Gudrun (Max Planck Institute for Physics, Munich)

Contribution ID: 12

Type: **not specified**

## **Higgs Boson Pair Production: Monte-Carlo Generator Interface & Parton Shower**

*Wednesday, 13 September 2017 09:30 (30 minutes)*

**Presenter:** Mr JONES, Stephen (Uni Freiburg, MPI Munich)

Contribution ID: 13

Type: **not specified**

# Higgs production, decay, and related mathematical objects

*Wednesday, 13 September 2017 10:00 (30 minutes)*

**Presenter:** Dr FRELLESVIG, Hjalte Axel (NCSR Demokritos)

Contribution ID: 14

Type: **not specified**

## **Azimuthal asymmetries in QCD hard scattering: infrared safe but divergent**

*Wednesday, 13 September 2017 11:00 (30 minutes)*

**Presenter:** Dr GRAZZINI, Massimiliano (University of Zurich)



Contribution ID: 15

Type: **not specified**

## **Higgs production at NNLO**

*Wednesday, 13 September 2017 11:30 (30 minutes)*

**Presenter:** Mr CRUZ-MARTINEZ, Juan (IPPP (Durham University))

Contribution ID: 16

Type: **not specified**

## **NLO corrections to $h \rightarrow WW/ZZ \rightarrow 4$ fermions in a Singlet Extension of the Standard Model**

*Wednesday, 13 September 2017 12:00 (30 minutes)*

**Presenter:** BOGGIA, Michele (Freiburg University)

Contribution ID: 17

Type: **not specified**

## **Vidyo: "Impact of CP-violation on MSSM Higgs searches at the LHC"**

*Wednesday, 13 September 2017 14:00 (30 minutes)*

**Presenter:** PATEL, Shruti (DESY)

Contribution ID: **18**

Type: **not specified**

## **Search for supplementary Higgs bosons at the LHC**

*Wednesday, 13 September 2017 14:30 (30 minutes)*

**Presenter:** Mr RODRIGUEZ-VAZQUEZ, Matias (CNRS/Universite Paris Sud)

Contribution ID: 19

Type: **not specified**

## **Modeling BSM effects on the Higgs transverse-momentum spectrum in an EFT approach**

*Wednesday, 13 September 2017 15:00 (30 minutes)*

**Presenter:** ILNICKA, Agnieszka (University of Zurich / ETH Zurich)

Contribution ID: 20

Type: **not specified**

## Supervisory Board

*Wednesday, 13 September 2017 16:00 (2 hours)*

Contribution ID: **21**

Type: **not specified**

## **Final Edit of Book**

*Wednesday, 13 September 2017 16:00 (2 hours)*

Contribution ID: 22

Type: **not specified**

## **Universality of Next-to-Leading power logarithms for (multi)-Higgs production cross sections**

*Thursday, 14 September 2017 09:00 (30 minutes)*

**Presenter:** LAENEN, Eric



Contribution ID: 23

Type: **not specified**

## **A determination of the strong coupling constant from a global PDF analysis**

*Thursday, 14 September 2017 09:30 (30 minutes)*

**Presenter:** Mr KASSABOV ZAHARIEVA, Zahari Dimitrov (University of Turin)

Contribution ID: 24

Type: **not specified**

## **Treatment of quark masses in b-associated production at the LHC**

*Thursday, 14 September 2017 10:00 (30 minutes)*

**Presenter:** Mr NAPOLETANO, Davide (IPPP)

Contribution ID: 25

Type: **not specified**

## **The quantum structure of EFT**

*Thursday, 14 September 2017 10:30 (30 minutes)*

**Presenter:** PASSARINO, Giampiero (Torino University)

Contribution ID: 26

Type: **not specified**

## **Vidyo: Development of TauSpinner in the production of $\tau\tau jj$ for the spin2 case**

*Friday, 15 September 2017 09:00 (30 minutes)*

**Presenter:** Mrs BAHMANI, marzieh (IFJ-PAN)

Contribution ID: 27

Type: **not specified**

## **Separating electroweak/new physics/CP-effects from strong effects and reweighting tool for LHC**

*Friday, 15 September 2017 09:30 (30 minutes)*

**Presenter:** Prof. WAS, zbigniew (IFJ PAN)

Contribution ID: 28

Type: **not specified**

## **Optimizing Higgs Boson CP Measurement in $H \rightarrow \tau\tau$ decay with ML Techniques**

*Friday, 15 September 2017 10:00 (30 minutes)*

**Presenter:** LE, Brian

Contribution ID: 29

Type: **not specified**

## **Interpretations and Improvements of Higgs measurements**

*Friday, 15 September 2017 11:00 (30 minutes)*

**Presenter:** SPANNOWSKY, Michael (IPPP, Durham University)

Contribution ID: **30**

Type: **not specified**

## **Computing radiative corrections in four dimensions**

**Presenter:** Prof. PITTAU, Roberto (U. of Granada)



Contribution ID: 31

Type: **not specified**

## **Physics after the discovery of the Higgs boson.**

*Friday, 15 September 2017 11:30 (30 minutes)*

**Presenter:** Prof. VAN DER BIJ, Jochum (Freiburg university)