

HiggsTools Second Annual Meeting

Report of Contributions

Contribution ID: 0

Type: **not specified**

Progress in NNLO computations for processes with jets

Tuesday, April 12, 2016 9:00 AM (30 minutes)

Presenter: GLOVER, Nigel (Durham University)

Contribution ID: 2

Type: **not specified**

NNLO calculations for Higgs processes

Tuesday, April 12, 2016 9:30 AM (30 minutes)

Presenter: CRUZ-MARTINEZ, Juan M.

Contribution ID: 3

Type: **not specified**

Uncertainties in backgrounds to ttH(bb)

Tuesday, April 12, 2016 10:00 AM (30 minutes)

Presenter: WOLF, Tim

Contribution ID: 4

Type: **not specified**

Two-loop amplitudes with several mass scales: tools and applications

Tuesday, April 12, 2016 11:00 AM (30 minutes)

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

Contribution ID: 5

Type: **not specified**

3-loop heavy flavor correction to deep-inelastic scattering

Tuesday, April 12, 2016 11:30 AM (30 minutes)

Presenter: BLUEMLEIN, Johannes (DESY)

Contribution ID: 6

Type: **not specified**

PDF calculations for the LHC

Tuesday, April 12, 2016 12:00 PM (30 minutes)

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

Contribution ID: 7

Type: **not specified**

Recent Higgs to gamma gamma results at CMS

Tuesday, April 12, 2016 2:00 PM (30 minutes)

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

Contribution ID: 8

Type: **not specified**

Waiting for discoveries/deviations, a paradigm shift?

Tuesday, April 12, 2016 2:30 PM (30 minutes)

Presenter: PASSARINO, Giampiero (Torino University)

Contribution ID: 9

Type: **not specified**

Boosted Higgs \rightarrow bb⁻ in vector-boson associated production at 14 TeV

Tuesday, April 12, 2016 3:00 PM (30 minutes)

Presenter: BUTTERWORTH, Jonathan (University College London (UK))

Contribution ID: **10**

Type: **not specified**

General CMS update

Tuesday, April 12, 2016 4:00 PM (1 hour)

Presenter: DAVIES, Gavin (Imperial College Sci., Tech. & Med. (GB))

Contribution ID: 11

Type: **not specified**

ESR2: Summary of 2015 and prospects for 2016

Wednesday, April 13, 2016 9:00 AM (30 minutes)

Presenter: GUTIERREZ ORTIZ, Nicolas Gilberto (University College London (UK))

Contribution ID: 13

Type: **not specified**

Search for $H \rightarrow \tau\tau$ decays in the semi-leptonic final state and measurement of the tau identification efficiency using LHC pp data at 13 TeV collected with the ATLAS detector

Wednesday, April 13, 2016 10:00 AM (30 minutes)

Presenter: MEGY, Theo Jean (Albert-Ludwigs-Universitaet Freiburg (DE))

Contribution ID: 14

Type: **not specified**

Study of VBF/VBS in the LHC at 13 TeV and available tools

Wednesday, April 13, 2016 11:00 AM (30 minutes)

Presenter: GOMEZ-AMBROSIO, Raquel

Contribution ID: 15

Type: **not specified**

Next-to-soft corrections in QCD

Wednesday, April 13, 2016 11:30 AM (30 minutes)

Presenter: LAENEN, Eric (Nikhef)

Contribution ID: 16

Type: **not specified**

What's New in Maple 2016

Wednesday, April 13, 2016 12:00 PM (30 minutes)

Presenter: GERHARD, Juergen

Contribution ID: 17

Type: **not specified**

Event reweighting with TauSpinner: spin and matrix element effects in tau lepton pair production with two high pT jets

Wednesday, April 13, 2016 2:00 PM (30 minutes)

Presenter: WAS, Zbigniew Andrzej (Polish Academy of Sciences (PL))

Contribution ID: **18**

Type: **not specified**

Two-loop power corrections to non-singlet structure functions and sum rules

Wednesday, April 13, 2016 2:30 PM (30 minutes)

Presenter: FALCIONI, Giulio

Contribution ID: **19**

Type: **not specified**

A Tool for Effective Field Theory Calculations

Wednesday, April 13, 2016 3:00 PM (30 minutes)

Presenter: SANTIAGO, Jose (Granada University)

Contribution ID: **20**

Type: **not specified**

General ATLAS update

Wednesday, April 13, 2016 4:00 PM (1 hour)

Presenter: BUTTERWORTH, Jonathan (University College London (UK))

Contribution ID: 21

Type: **not specified**

Gluon Fusion Higgs Production in the MSSM with Complex Parameters

Thursday, April 14, 2016 9:00 AM (30 minutes)

Presenter: SHRUTI, Patel

Contribution ID: 22

Type: **not specified**

"Higgs hunting in Zurich: CMS Results from ETH

Thursday, April 14, 2016 9:30 AM (30 minutes)

Presenter: KASIECZKA, Gregor (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: 23

Type: **not specified**

Measuring the top-quark pole mass using $t\bar{t}+1\text{jet}$ events collected with the ATLAS experiment at 8 TeV

Thursday, April 14, 2016 10:00 AM (30 minutes)

Presenter: MELINI, Davide (Instituto de Fisica Corpuscular (ES))

Contribution ID: 24

Type: **not specified**

Higher order corrections to the Higgs p_T spectrum with finite heavy quark masses from high-energy resummation

Presenter: FORTE, Stefano (Università degli Studi e INFN Milano (IT))

Contribution ID: 25

Type: **not specified**

The pentabox master integrals with the simplified differential equations approach

Thursday, April 14, 2016 11:00 AM (30 minutes)

Presenter: PAPADOPOULOS, Konstantinos (Nat. Cent. for Sci. Res. Demokritos (GR))

Contribution ID: 26

Type: **not specified**

Presentation of RISC Software GmbH

Thursday, April 14, 2016 11:30 AM (30 minutes)

Presenter: HEINZLREITER, Paul

Contribution ID: 27

Type: **not specified**

MATRIX: a tool to perform NNLO computations

Thursday, April 14, 2016 2:00 PM (30 minutes)

Presenter: GRAZZINI, Massimiliano (Universitaet Zuerich (CH))

Contribution ID: 28

Type: **not specified**

(B)SM Higgs production and decay

Thursday, April 14, 2016 2:30 PM (30 minutes)

Presenter: SPIRA, Michael (Paul Scherrer Institut (CH))

Contribution ID: 29

Type: **not specified**

Single Top production at NNLO-QCD: an analytic approach

Thursday, April 14, 2016 3:00 PM (30 minutes)

Presenter: MARIANI, Elisa

Contribution ID: **30**

Type: **not specified**

H@FCC and the 750 GeV bump

Thursday, April 14, 2016 4:00 PM (1 hour)

Presenter: DJOUADI, Abdelhak (LPT Orsay)

Contribution ID: 31

Type: **not specified**

Public Talk: "La física del bosón de Higgs y los nuevos retos que plantea: científicos y tecnológicos"

Presenter: FUSTER VERDÚ, Juan (IFIC-Valencia (ES))

Contribution ID: 32

Type: **not specified**

Higgs sector in the R-symmetric supersymmetric model

Friday, April 15, 2016 9:00 AM (30 minutes)

Presenter: KALINOWSKI, Jan Henryk (University of Warsaw (PL))

Contribution ID: 33

Type: **not specified**

Higgs boson production in association with a top quark pair: recent results from CMS

Friday, April 15, 2016 9:30 AM (30 minutes)

Presenter: PATA, Josep (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: 34

Type: **not specified**

Test of CP Invariance in Higgs VBF Production using the Optimal Observable method in the decay $H \rightarrow \tau\tau$ with ATLAS

Friday, April 15, 2016 10:00 AM (30 minutes)

Presenter: SCHUMACHER, Markus (Albert-Ludwigs-Universitaet Freiburg (DE))

Contribution ID: 35

Type: **not specified**

Study of spin effect in tau production and decay at LHC with TauSpinner program

Friday, April 15, 2016 11:00 AM (30 minutes)

Presenter: BAHMANI, Marzieh (Polish Academy of Sciences (PL))

Contribution ID: 36

Type: **not specified**

Higgs production from SUSY decays at the LHC - Higgs production at ILC/CLIC in the MSSM at NLO

Friday, April 15, 2016 11:30 AM (30 minutes)

Presenter: HEINEMEYER, Sven (CSIC (Santander, ES))

Contribution ID: 37

Type: **not specified**

R&D topic in the area of seismic imaging

Friday, April 15, 2016 12:00 PM (30 minutes)

Presenter: TEN KROODE, Fons

Contribution ID: **38**

Type: **not specified**

On the reduction and evaluation of Generalized Polylogarithms”

Friday, April 15, 2016 12:30 PM (30 minutes)

Presenter: FRELLESVIG, Hjalte

Contribution ID: 39

Type: **not specified**

Possible 750 GeV diphoton signal via light pseudoscalars

Wednesday, April 13, 2016 9:30 AM (30 minutes)

Presenter: ELLWANGER, Ulrich (University Paris 11)