

LHC TOP WG meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Wednesday 9 November 2022 13:00 (20 minutes)

Presenters: Prof. MALTONI, Fabio (Universite Catholique de Louvain (UCL) (BE) and Università di Bologna); ALDAYA MARTIN, Maria (DESY); WAGNER, Wolfgang (Bergische Universitaet Wuppertal (DE))

Contribution ID: 2

Type: **not specified**

CMS-Highlight-1: First tt cross section measurement at 13.6 TeV

Wednesday 9 November 2022 13:30 (20 minutes)

Presenter: JEPPE, Laurids (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 3

Type: **not specified**

ATLAS-highlight-1: Measurement of differential cross-sections of $t\bar{t}$ production in the electron-muon channel with the full Run 2 data set

Wednesday 9 November 2022 14:00 (20 minutes)

Presenter: MARTINELLI, Luca (Sapienza Universita e INFN, Roma I (IT))

Contribution ID: 4

Type: **not specified**

ATLAS+CMS common MC simulation

Wednesday 9 November 2022 14:30 (20 minutes)

Presenter: SCHWIENHORST, Reinhard (Michigan State University (US))

Contribution ID: 5

Type: **not specified**

CMS-Highlight-2: Charge asymmetry in boosted tt events

Wednesday 9 November 2022 15:30 (20 minutes)

Presenter: ROY, Titas (University of Illinois at Chicago (US))

Contribution ID: 6

Type: **not specified**

ATLAS-highlight-2: charge asymmetries in $t\bar{t}$, $t\bar{t}+\gamma$ and $t\bar{t}+W$ production

Wednesday 9 November 2022 16:00 (20 minutes)

Presenter: DIEZ PARDOS, Carmen (Universitaet Siegen (DE))

Contribution ID: 7

Type: **not specified**

Discussion

Contribution ID: 8

Type: **not specified**

Comparison of recent 4top results from ATLAS and CMS

Wednesday 9 November 2022 16:30 (20 minutes)

Presenters: QIN, Quake (University of Manchester (GB)); WACHIRAPUSITANAND, Vichayanun (Chulalongkorn University (TH))

Contribution ID: 9

Type: **not specified**

Status and prospects on SM predictions for 4tops

Wednesday 9 November 2022 17:30 (20 minutes)

Presenter: KRAUS, Manfred (Florida State University)

Contribution ID: **10**

Type: **not specified**

The 4-top-quark BSM potential: resonant and non-resonant opportunities

Wednesday 9 November 2022 17:00 (20 minutes)

Presenter: DARME, Luc

Contribution ID: 11

Type: **not specified**

“Radiation and recoil effects in top quark decays in Pythia” uncertainty in the context of top quark measurements

Thursday 10 November 2022 11:00 (20 minutes)

Presenter: Prof. SKANDS, Peter (Monash University (AU))

Contribution ID: 12

Type: **not specified**

Latest direct top-quark mass measurements from ATLAS

Thursday 10 November 2022 11:30 (20 minutes)

Presenter: Mr JIMENEZ PENA, Javier (Max Planck Society (DE))

Contribution ID: 13

Type: **not specified**

Latest results on colour reconnection in ATLAS and CMS

Thursday 10 November 2022 14:00 (20 minutes)

Presenters: YAZGAN, Efe (National Taiwan University (TW)); WAHDAN, Shayma (Bergische Universität Wuppertal (DE))

Contribution ID: 14

Type: **not specified**

Energy-peak based method to measure top quark mass via B-hadron decay lengths

Thursday 10 November 2022 14:30 (20 minutes)

Presenter: FRANCESCHINI, Roberto (Rome 3 U.)

Contribution ID: 15

Type: **not specified**

Determination of the top-quark on-shell mass via the scale-invariant perturbative relation to its $\overline{\text{MS}}$ mass (2209.10777 [hep-ph])

Thursday 10 November 2022 15:00 (20 minutes)

Presenter: HUANG, Xu-Dong

Contribution ID: 16

Type: **not specified**

NNLO study of top-quark mass renormalization scheme uncertainties in Higgs boson production (arXiv:2206.14667 [hep-ph])

Thursday 10 November 2022 16:00 (20 minutes)

Presenter: MAZZITELLI, Javier (Paul Scherrer Institut (CH))

Contribution ID: 17

Type: **not specified**

tbc

Contribution ID: **18**

Type: **not specified**

Status of the Run 1 top-quark mass combination

Thursday 10 November 2022 16:30 (20 minutes)

Presenter: WIMPENNY, Steve (University of California Riverside (US))

Contribution ID: **19**

Type: **not specified**

CMS-Highlights-3

Contribution ID: 20

Type: **not specified**

Probing Top-quark Operators with Precision Electroweak Measurements

Presenter: LIU, Yiming

Contribution ID: 21

Type: **not specified**

Precise predictions for t-channel single-top production at the LHC and FCC

Friday 11 November 2022 14:00 (20 minutes)

Presenter: SIGNORILE-SIGNORILE, Chiara (Karlsruhe Institute of Technology (KIT))

Contribution ID: 22

Type: **not specified**

Semileptonic Decays in Off-shell Top Quark Production with $bb4l$

Friday 11 November 2022 15:10 (20 minutes)

Presenter: JEZO, Tomas (WWU ITP)

Contribution ID: 23

Type: **not specified**

Resonant top pair searches at the LHC: a window to electroweak phase transition

Friday 11 November 2022 14:30 (20 minutes)

Presenter: GONÇALVES, Dorival (Oklahoma State University)

Contribution ID: 24

Type: **not specified**

Accessing CKM suppressed top decays at the LHC

Friday 11 November 2022 15:40 (20 minutes)

Presenter: SZEWC, Manuel

Contribution ID: 25

Type: **not specified**

Status of the EFT effort of the LHC Top WG