

LHC TOP WG meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Wednesday 1 December 2021 14:00 (10 minutes)

Presenters: 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: tZq inclusive and differential cross section measurements

Wednesday 1 December 2021 14:15 (20 minutes)

Presenter: LAMBRECHT, Luka (Ghent University (BE))

Contribution ID: 3

Type: **not specified**

ATLAS Highlight – 1: Energy asymmetry

Wednesday 1 December 2021 14:45 (20 minutes)

Presenter: BASAN, Alexander (Johannes Gutenberg Universitaet Mainz (DE))

Contribution ID: 4

Type: **not specified**

Improving modelling of ttW [2108.07826, 2004.0955]

Wednesday 1 December 2021 15:15 (20 minutes)

Presenter: FREDERIX, Rikkert (Lund University)

Contribution ID: 5

Type: **not specified**

Discussion

Contribution ID: 6

Type: **not specified**

Combination of ATLAS and CMS $t\bar{t}$ inclusive cross sections in Run1

Friday 3 December 2021 14:00 (20 minutes)

Presenters: KIESELER, Jan (CERN); BOISVERT, Veronique (Royal Holloway, University of London)

Contribution ID: 7

Type: **not specified**

Comparison of tt differential cross sections in ATLAS and CMS

Wednesday 1 December 2021 16:45 (20 minutes)

Presenters: ROMANO, Marino (INFN Bologna (IT)); BEHNKE, Olaf (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 8

Type: **not specified**

Towards harmonizing modelling uncertainties in ATLAS and CMS

Wednesday 1 December 2021 17:15 (20 minutes)

Presenters: KNUE, Andrea Helen (Albert-Ludwigs-Universitaet Freiburg (DE)); HIRSCHBUEHL, Dominic (Bergische Universitaet Wuppertal (DE)); YAZGAN, Efe (National Taiwan University (TW)); PALENCIA CORTEZON, Jose Enrique (Universidad de Oviedo (ES))

Contribution ID: 9

Type: **not specified**

Common ATLAS and CMS MC sample and MC developments

Wednesday 1 December 2021 17:45 (20 minutes)

Presenters: NEGRO, Giulia (Purdue University (US)); ROGGER, Jens (Bergische Universitaet Wuppertal (DE))

Contribution ID: **10**

Type: **not specified**

B-hadron production at NNLO in $t\bar{t}$ events with leptonic decays at LHC [2102.08267]

Wednesday 1 December 2021 18:15 (20 minutes)

Presenter: GENERET, Terry (RWTH Aachen University)

Contribution ID: **11**

Type: **not specified**

High-order effects in the EFT top interpretation

Thursday 2 December 2021 14:30 (20 minutes)

Presenter: VRYONIDOU, Eleni (University of Manchester (GB))

Contribution ID: 12

Type: **not specified**

New EW top fit in the SMEFT [2107.13917]

Thursday 2 December 2021 14:00 (20 minutes)

Presenter: MIRALLES LOPEZ, Marcos (IFIC (U.Valencia-CSIC))

Contribution ID: **13**

Type: **not specified**

Recent FCNC searches by ATLAS and CMS

Thursday 2 December 2021 16:00 (20 minutes)

Presenters: PEIXOTO, Ana (LPSC/CNRS (Grenoble, FR)); MAY, Samuel (Boston University (US))

Contribution ID: 14

Type: **not specified**

Towards ATLAS-CMS EFT combination

Thursday 2 December 2021 15:30 (20 minutes)

Presenters: SKOVPEN, Kirill (Ghent University (BE)); BARRANCO NAVARRO, Laura (Stockholm University (SE)); BERTA, Peter (Charles University, Prague (CZ))

Contribution ID: 15

Type: **not specified**

Recent results in flavour violation and top polarisation by ATLAS and CMS

Thursday 2 December 2021 18:00 (20 minutes)

Presenters: DEGENS, Jordy (Nikhef National institute for subatomic physics (NL)); GOLDOUZIAN, Reza (University of Notre Dame (US))

Contribution ID: **16**

Type: **not specified**

tWZ production at the LHC in SMEFT [2111.03080]

Thursday 2 December 2021 17:00 (20 minutes)

Presenter: EL FAHAM, Hesham (Universite Catholique de Louvain (UCL) (BE))

Contribution ID: 17

Type: **not specified**

ATLAS Highlight – 2: ttbar boosted differential cross sections

Thursday 2 December 2021 17:30 (20 minutes)

Presenter: LYSAK, Roman (Czech Academy of Sciences (CZ))

Contribution ID: **18**

Type: **not specified**

CMS Highlight – 2

Contribution ID: **19**

Type: **not specified**

Flavour Universality Violation and the top quark

Friday 3 December 2021 14:30 (20 minutes)

Presenters: MARZOCCA, David; MARZOCCA, David (INFN Trieste)

Contribution ID: 20

Type: **not specified**

Top MC mass vs. pole mass relation in ATLAS and CMS

Wednesday 1 December 2021 15:45 (20 minutes)

Presenters: APARISI POZO, Javier Alberto (Univ. of Valencia and CSIC (ES)); DEFRANCHIS, Matteo (CERN)

Contribution ID: **21**

Type: **not specified**

Overview of DM searches in the top sector

Friday 3 December 2021 15:00 (20 minutes)

Presenters: HAISCH, Uli; HAISCH, Ulrich Andreas (University of Oxford (GB))

Contribution ID: 22

Type: **not specified**

CMS Highlight – 2: Probing EFT operators in (t)tZ

Thursday 2 December 2021 15:00 (20 minutes)

Presenter: JAFARI, Abideh (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 23

Type: **not specified**

Anomalous $\gamma\gamma \rightarrow t\bar{t}$ scattering at the LHC

Friday 3 December 2021 16:00 (20 minutes)

Presenter: BELLORA, Andrea (Universita e INFN Torino (IT))

Contribution ID: 24

Type: **not specified**

Cross sections for ttH production with the top quark MSbar mass [arXiv:2111.12505]

Friday 3 December 2021 16:30 (20 minutes)

Presenter: SAIBEL, Andrej (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 25

Type: **not specified**

Triple top quark production in Standard Model [arXiv:2107.07629]

Friday 3 December 2021 17:00 (20 minutes)

Presenter: DUDKO, Lev (M.V. Lomonosov Moscow State University (RU))