12th International Workshop on Top Quark Physics (TOP2019)



Report of Contributions

Contribution ID: 1 Type: not specified

Introduction by LOC

Monday, 23 September 2019 09:00 (5 minutes)

Presenter: LIAO, Hongbo (Chinese Academy of Sciences (CN))

Session Classification: Plenary session

Contribution ID: 2 Type: not specified

Welcome by the International Advisory Committee

Monday, 23 September 2019 09:05 (5 minutes)

Presenter: WAGNER, Wolfgang (Bergische Universitaet Wuppertal (DE))

Session Classification: Plenary session

Contribution ID: 3 Type: not specified

Overview of CMS results from last year: detector performance and physics highlights

Monday, 23 September 2019 11:00 (30 minutes)

Presenter: HU, Zhen (Tsinghua University (CN))

Session Classification: Plenary session

Contribution ID: 4 Type: **not specified**

Inclusive tTbar + single top cross-section measurements

Monday, 23 September 2019 11:40 (20 minutes)

Presenter: ESCOBAR IBAÑEZ, Carlos (Instituto de Fisica Corpuscular (IFIC) - CSIC/UV)

Session Classification: Plenary session

Contribution ID: 5 Type: **not specified**

Inclusive tTbar + single top (standard modes) cross-section measurements

Session Classification: Plenary session

Contribution ID: 6 Type: not specified

Top-quark mass measurements

Monday, 23 September 2019 14:00 (30 minutes)

Presenter: CASTRO, Andrea (Universita e INFN, Bologna (IT))

Session Classification: Plenary session

Contribution ID: 7 Type: **not specified**

Top properties and anomalous couplings

Monday, 23 September 2019 15:20 (30 minutes)

Presenter: GOLDOUZIAN, Reza (University of Notre Dame (US))

Session Classification: Plenary session

Contribution ID: 8 Type: not specified

Rare single-top production modes

Tuesday, 24 September 2019 16:00 (20 minutes)

Presenter: CHOI, Su Yong (Korea University (KR))

Session Classification: Plenary session

Contribution ID: 9 Type: **not specified**

FCNC in production and decay

Session Classification: Plenary session

Contribution ID: 10 Type: not specified

Modeling and tuning (ttbar) in ATLAS and CMS

Tuesday, 24 September 2019 09:00 (20 minutes)

Presenter: MACKAY, Catherine (Brunel University (GB))

Session Classification: Plenary session

Contribution ID: 11 Type: not specified

Modeling and tuning (single top + rare top processes)

Tuesday, 24 September 2019 11:00 (20 minutes)

Presenter: BERLENDIS, Simon (University of Arizona (US))

Session Classification: Plenary session

Contribution ID: 12 Type: not specified

Differential measurements of tTbar production

Tuesday, 24 September 2019 09:30 (20 minutes)

Presenter: BOISVERT, Veronique (Royal Holloway, University of London)

Session Classification: Plenary session

Contribution ID: 13 Type: not specified

Differential measurements of single top production

Tuesday, 24 September 2019 11:30 (20 minutes)

Presenter: SANCHEZ CRUZ, Sergio (Universidad de Oviedo (ES))

Session Classification: Plenary session

Contribution ID: 14 Type: not specified

Inclusive and differential tTbar + bBbar

Tuesday, 24 September 2019 14:00 (20 minutes)

Presenter: BROCHERO, Javier (Centro de Investigaciones Energéti cas Medioambientales y Tecno)

Session Classification: Plenary session

Contribution ID: 15 Type: not specified

tTbar + H and tH

Tuesday, 24 September 2019 14:30 (20 minutes)

Presenter: VAZQUEZ SCHROEDER, Tamara (CERN)

Session Classification: Plenary session

Contribution ID: 16 Type: not specified

Deep-neural-network based b-tagging as basis for improvements in top analyses

Tuesday, 24 September 2019 17:50 (5 minutes)

Presenter: GUTH, Manuel (Albert Ludwigs Universitaet Freiburg (DE))

Session Classification: Forum: Young Scientist Forum

Contribution ID: 17 Type: not specified

Measurement of the forward-backward asymmetry in l+jets

Tuesday, 24 September 2019 18:00 (5 minutes)

Presenter: CHEN, Pu-Sheng (National Taiwan University (TW))

Session Classification: Forum: Young Scientist Forum

Contribution ID: 18 Type: not specified

Measurements of inclusive and differential cross-sections of ttgam production in the e+mu final state at 13 TeV with the ATLAS detector

Tuesday, 24 September 2019 18:10 (5 minutes)

Presenter: ZOCH, Knut (Georg August Universitaet Goettingen (DE))

Session Classification: Forum: Young Scientist Forum

Contribution ID: 19 Type: not specified

Differential measurement of ttZ production in CMS

Tuesday, 24 September 2019 18:20 (5 minutes)

Presenter: KNOLLE, Joscha (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Forum: Young Scientist Forum

Contribution ID: 20 Type: not specified

Observation of the associated production of a top quark and a Z boson at sqrt(s)=13 TeV with the ATLAS detector

Tuesday, 24 September 2019 18:30 (5 minutes)

Presenter: FRIZZELL, Dylan (University of Oklahoma (US))

Session Classification: Forum: Young Scientist Forum

Contribution ID: 21 Type: not specified

The first measurement of the running of the top quark mass

Tuesday, 24 September 2019 18:40 (5 minutes)

Presenter: DEFRANCHIS, Matteo (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Forum: Young Scientist Forum

Contribution ID: 22 Type: not specified

Top quarks and SUSY

Thursday, 26 September 2019 14:00 (20 minutes)

Presenter: MAJEWSKI, Stephanie (University of Oregon (US))

Session Classification: Plenary session

Contribution ID: 23 Type: not specified

Searches for vector-like top quarks and leptoquarks decaying to top quarks

Thursday, 26 September 2019 14:30 (30 minutes)

Presenter: NIKIFOROU, Nikiforos (University of Texas at Austin (US))

Session Classification: Plenary session

Contribution ID: 24 Type: not specified

Searches for ttbar and tb resonances in ATLAS and CMS

Thursday, 26 September 2019 16:10 (30 minutes)

Presenter: Mr CHATTERJEE, Suman (Tata Inst. of Fundamental Research (IN))

Session Classification: Plenary session

Contribution ID: 25 Type: not specified

Top-quarks and dark matter in ATLAS and CMS

Thursday, 26 September 2019 15:40 (20 minutes)

Presenter: SCHWANENBERGER, Christian (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Plenary session

Contribution ID: 26 Type: not specified

Inclusive and differential tTbar + gamma (EFT)

Friday, 27 September 2019 09:00 (20 minutes)

Presenter: LI, Yichen (DESY)

Session Classification: Plenary session

Contribution ID: 27 Type: not specified

Inclusive and differential tTbar + Z, W (EFT)

Friday, 27 September 2019 09:30 (20 minutes)

Presenter: YUMICEVA, Francisco (Florida Institute of Technology (US))

Session Classification: Plenary session

Contribution ID: 28 Type: not specified

Search for 4-top production (+ EFT)

Friday, 27 September 2019 11:00 (30 minutes)

Presenter: QIN, Yang (University of Manchester (GB))

Session Classification: Plenary session

Contribution ID: 29 Type: not specified

Top quarks at the HL-LHC

Friday, 27 September 2019 14:00 (30 minutes)

Presenter: TA, Duc Bao (Johannes Gutenberg Universität Mainz)

Session Classification: Plenary session

Contribution ID: 30 Type: not specified

Experimental summary

Friday, 27 September 2019 16:00 (30 minutes)

Presenter: JUNG, Andreas (Purdue University (US))

Session Classification: Plenary session

Keynote address

Contribution ID: 31 Type: not specified

Keynote address

Monday, 23 September 2019 09:10 (30 minutes)

Presenter: WANG, Liantao (University of Chicago (US))

Session Classification: Plenary session

Contribution ID: 32 Type: not specified

Top quarks at next-generation lepton colliders

Friday, 27 September 2019 14:40 (30 minutes)

Presenter: DURIEUX, Gauthier (Technion-Israel Institute of Technology (IL))

Session Classification: Plenary session

Theory summary

Contribution ID: 33 Type: not specified

Theory summary

Friday, 27 September 2019 16:40 (30 minutes)

Presenter: REINA, Laura (Florida State University (US))

Session Classification: Plenary session

Contribution ID: 34 Type: not specified

Announcement of TOP 2020

Tuesday, 24 September 2019 17:30 (5 minutes)

Presenter: MITOV, Alexander (University of Cambridge (GB))

Session Classification: Plenary session

Contribution ID: 35 Type: not specified

Overview of ATLAS results from last year: detector performance and physics highlights

Monday, 23 September 2019 09:50 (30 minutes)

Presenter: WIGLESWORTH, Craig (University of Copenhagen (DK))

Session Classification: Plenary session

Contribution ID: 36 Type: not specified

High precision theoretical predictions for on-shell top anti-top pair production at the LHC

Monday, 23 September 2019 12:05 (20 minutes)

Presenter: MAZZITELLI, Javier (Universitaet Zuerich (CH))

Session Classification: Plenary session

Contribution ID: 37 Type: not specified

Top quark mass at the LHC

Monday, 23 September 2019 14:40 (30 minutes)

Presenter: Prof. CZAKON, Michal Wiktor (Rheinisch Westfaelische Tech. Hoch. (DE))

Session Classification: Plenary session

Contribution ID: 38 Type: not specified

FCNC in production and decay

Monday, 23 September 2019 16:00 (20 minutes)

Presenter: CASTRO, Nuno (LIP and University of Minho (PT))

Session Classification: Plenary session

Contribution ID: 39 Type: not specified

Parton shower and matching uncertainties in ttbar production with Herwig7

Tuesday, 24 September 2019 10:00 (20 minutes)

Presenter: REUSCHLE, Christian (Florida State University)

Session Classification: Plenary session

Contribution ID: 40 Type: not specified

High precision theoretical predictions for single top production at the LHC

Tuesday, 24 September 2019 12:00 (20 minutes)

Presenter: LIU, Zelong (JGU Mainz)

Session Classification: Plenary session

Contribution ID: 41 Type: not specified

NLO QCD + EW theoretical predictions for ttH production at the LHC

Tuesday, 24 September 2019 15:00 (20 minutes)

Presenter: PELLEN, Mathieu (University of Cambridge)

Session Classification: Plenary session

Contribution ID: 42 Type: not specified

Modelling and uncertainties for ttbb production as background to ttH(bb)

Tuesday, 24 September 2019 16:30 (20 minutes)

Presenter: SIEGERT, Frank (Technische Universitaet Dresden (DE))

Session Classification: Plenary session

Contribution ID: 43 Type: not specified

ttbar + V production with V = Z, gamma, W also in the context of SMEFT

Friday, 27 September 2019 10:00 (20 minutes)

Presenter: MIMASU, Ken (Université Catholique de Louvain)

Session Classification: Plenary session

Contribution ID: 44 Type: **not specified**

Recent theoretical studies of 4 top production, and BSM implications

Friday, 27 September 2019 11:40 (20 minutes)

Presenter: CAO, qinghong (Peking University)

Session Classification: Plenary session

Contribution ID: 45 Type: not specified

Triple Top-Quark Production at the LHC

Friday, 27 September 2019 12:10 (20 minutes)

Presenter: LIU, Yandong

Session Classification: Plenary session

Contribution ID: 46 Type: not specified

Over the top

Thursday, 26 September 2019 09:00 (20 minutes)

Presenter: TORRE, Riccardo (CERN)

Session Classification: Mini-workshop: Top Meets New Physics

Contribution ID: 47 Type: **not specified**

New physics models that connect top physics to cosmology and baryogenesis

Thursday, 26 September 2019 09:30 (20 minutes)

Presenter: MATSEDONSKYI, Oleksii (DESY Hamburg)

Session Classification: Mini-workshop: Top Meets New Physics

Contribution ID: 48 Type: not specified

Higgs-top coupling and its linkage with the electroweak phase transition

Thursday, 26 September 2019 10:00 (20 minutes)

Presenter: LIU, Tao (The Hong Kong University of Science and Technology (HK))

Session Classification: Mini-workshop: Top Meets New Physics

Contribution ID: 49 Type: not specified

High energy tops including boosted top tagging at the energy frontier

Thursday, 26 September 2019 11:00 (20 minutes)

Presenter: SON, Minho (Korea Advanced Institute of Science and Technology (KR))

Session Classification: Mini-workshop: Top Meets New Physics

Top partners

Contribution ID: 50 Type: not specified

Top partners

Thursday, 26 September 2019 11:30 (20 minutes)

Presenter: VERHAAREN, Christopher (University of California, Davis)

Session Classification: Mini-workshop: Top Meets New Physics

Contribution ID: 51 Type: not specified

Continuum Naturalness

Thursday, 26 September 2019 12:00 (20 minutes)

Presenter: LEE, Gabriel (University of Chicago)

Session Classification: Mini-workshop: Top Meets New Physics

Contribution ID: **52** Type: **not specified**

High precision theoretical predictions for top anti-top pair production in di-lepton channel

Monday, 23 September 2019 12:35 (20 minutes)

Presenter: MITOV, Alexander (University of Cambridge (GB))

Session Classification: Plenary session

Contribution ID: 53 Type: not specified

Measurement of the total single-top-quark and single top-antiquark t-channel production cross sections at 13 TeV using the full Run 2 dataset

Presenter: BESSIDSKAIA BYLUND, Olga (Bergische Universitaet Wuppertal (DE))

Session Classification: Poster

Contribution ID: 54 Type: not specified

Search for new heavy vector boson in top-quark final states with the ATLAS detector

Monday, 23 September 2019 17:05 (5 minutes)

Presenter: YUAN, Rui (Shandong University (CN))

Session Classification: Poster

Contribution ID: 55 Type: not specified

Top quark mass measurement using leptonic invariant mass in pp collisions at sqrt(s)=13 TeV with the ATLAS detector

Monday, 23 September 2019 17:10 (5 minutes)

Presenter: WILKINS, Lewis (Royal Holloway, University of London (GB))

Session Classification: Poster

Contribution ID: 56 Type: not specified

Single- and double-differential cross-sections in ttbar final states in the lepton+jets channel

Monday, 23 September 2019 17:15 (5 minutes)

Presenter: KVITA, Jiri (Palacky University (CZ))

Session Classification: Poster

Contribution ID: 57 Type: not specified

Invariant mass distribution of top quark pairs near threshold

Monday, 23 September 2019 17:20 (5 minutes)

Presenters: WANG, Guoxing; XU, Yongqi

Session Classification: Poster

Contribution ID: 58 Type: not specified

Angular analyses of t-channel single top production and decay

Monday, 23 September 2019 17:25 (5 minutes)

Presenter: BI, Runyu (University of Pittsburgh (US))

Session Classification: Poster

Contribution ID: 59 Type: not specified

Search for FCNC interaction of tHq coupling in Higgs to bb channel with CMS Run2 data

Presenter: PARK, Jiwon (Hanyang University)

Session Classification: Poster

Contribution ID: 60 Type: not specified

Probing top-quark flavor-changing couplings at the CEPC

Monday, 23 September 2019 17:35 (5 minutes)

Presenter: SHI, Liaoshan

Session Classification: Poster

Contribution ID: 61 Type: not specified

Measuring the top quark's spin density matrix

Monday, 23 September 2019 17:40 (5 minutes)

Presenter: JUNG, Andreas (Purdue University (US))

Session Classification: Poster

Contribution ID: 62 Type: not specified

Exotic decays of top partners: mind the search gap

Tuesday, 24 September 2019 17:00 (20 minutes)

Presenter: Dr ZHANG, mengchao (IBS-CTPU)

Session Classification: Plenary session

Contribution ID: 63 Type: not specified

Announcement of TOP 2021

Tuesday, 24 September 2019 17:40 (5 minutes)

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

Session Classification: Plenary session

Contribution ID: 64 Type: not specified

Fully Bayesian Unfolding with Regularizatio

Monday, 23 September 2019 17:45 (5 minutes)

Presenter: BARON, Petr (Palacky University (CZ))

Session Classification: Poster

Contribution ID: 65 Type: not specified

Study of semi-boosted topology in top anti-top quark pair spectra

Monday, 23 September 2019 17:50 (5 minutes)

Presenter: PACALT, Josef (Palacky University (CZ))

Session Classification: Poster