

LHC students poster session

Report of Contributions

Contribution ID: 79

Type: **not specified**

Prospects for measurements of the W mass including LHCb data

Wednesday 27 February 2019 17:00 (1 minute)

Presenter: PILI, Martina (University of Oxford (GB))

Session Classification: EW gauge bosons

Contribution ID: **80**

Type: **not specified**

Search for CP violation in $D_{(s)}^+ \rightarrow K_S^0 h^+$ decays at LHCb

Wednesday 27 February 2019 17:04 (1 minute)

Presenter: MACCOLINI, Serena (Universita e INFN, Bologna (IT))

Session Classification: Heavy Flavours

Contribution ID: **81**

Type: **not specified**

Measurement of ϕ_s in $B_s^0 \rightarrow J/\psi h^+ h^-$ decays at LHCb

Wednesday 27 February 2019 17:05 (1 minute)

Presenter: ZONNEVELD, Jennifer (The University of Edinburgh (GB))

Session Classification: Heavy Flavours

Contribution ID: **82**

Type: **not specified**

Study of the decay $B^0 \rightarrow \rho(770)^0 K^*(892)^0$ at LHCb

Wednesday 27 February 2019 17:06 (1 minute)

Presenter: VIEITES DIAZ, Maria (Universidade de Santiago de Compostela (ES))

Session Classification: Heavy Flavours

Contribution ID: **83**

Type: **not specified**

Search for the lepton-flavour-violating decays $B^+ \rightarrow K^+ \mu^\pm e^\mp$ at LHCb

Wednesday 27 February 2019 17:07 (1 minute)

Presenter: MEIER, Gerwin (Technische Universitaet Dortmund (DE))

Session Classification: Heavy Flavours

Contribution ID: **84**

Type: **not specified**

Search for the decays $B^0, B_s^0 \rightarrow J/\psi p\bar{p}$ at LHCb

Wednesday 27 February 2019 17:08 (1 minute)

Presenter: SPADARO NORELLA, Elisabetta (Università degli Studi e INFN Milano (IT))

Session Classification: Heavy Flavours

Contribution ID: 85

Type: **not specified**

Studies of η_c and $\eta_c(2S)$ production via hadronic decays at LHCb

Wednesday 27 February 2019 17:09 (1 minute)

Presenter: ZHOVKOVSKA, Valeriia (Centre National de la Recherche Scientifique (FR))

Session Classification: Heavy Flavours

Contribution ID: **86**

Type: **not specified**

CompassUT, a GPU track reconstruction algorithm for Run 3 at LHCb

Wednesday 27 February 2019 17:10 (1 minute)

Presenter: FERNANDEZ DECLARA, Placido (University Carlos III (ES))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 87

Type: **not specified**

Re-engineering the core software framework for the LHCb Upgrade

Wednesday 27 February 2019 17:11 (1 minute)

Presenter: NOLTE, Niklas (CERN / Technische Universitaet Dortmund (DE))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **88**

Type: **not specified**

Future upgrades at LHCb

Wednesday 27 February 2019 17:12 (1 minute)

Presenter: DENYSENKO, Vadym (Universitaet Zuerich (CH))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 89

Type: **not specified**

Measurement of rare $B \rightarrow \mu^+\mu^-$ decays with the Phase-2 upgraded CMS detector at the HL-LHC

Wednesday 27 February 2019 17:10 (1 minute)

Presenter: OZCELIK OZLUDIL, Ozlem (LIP Lisbon)

Session Classification: Heavy Flavours

Contribution ID: **90**

Type: **not specified**

Higgs to WW measurements with CMS

Wednesday 27 February 2019 17:07 (1 minute)

Presenter: FREED, Sarah Marika (Rice University (US))

Session Classification: Higgs studies

Contribution ID: 91

Type: **not specified**

Search for a Higgs boson produced in association with a Z or W boson, where H decays to b-bbar and the Z/W to leptons at CMS

Wednesday 27 February 2019 17:08 (1 minute)

Presenter: PERRIN, Gael Ludovic (ETH Zurich (CH))

Session Classification: Higgs studies

Contribution ID: 93

Type: **not specified**

Measurement of the Higgs boson cross sections, using decays to tau leptons, at CMS

Wednesday 27 February 2019 17:10 (1 minute)

Presenter: HIGGINBOTHAM, Sam (Princeton University (US))

Session Classification: Higgs studies

Contribution ID: 94

Type: **not specified**

Search for low-mass Higgs boson in the diphoton final state at CMS

Wednesday 27 February 2019 17:11 (1 minute)

Presenter: ZHANG, Sijing (IHEP(CN) and IPNL (FR))

Session Classification: Higgs studies

Contribution ID: 95

Type: **not specified**

Projections for di-Higgs production (resonant and non-resonant) in 4b final state at High-Luminosity LHC with the CMS phase-2 detector

Wednesday 27 February 2019 17:12 (1 minute)

Presenter: PANWAR, Lata (Indian Institute of science (IN))

Session Classification: Higgs studies

Contribution ID: 96

Type: **not specified**

Prospects for di-Higgs measurements in the bbgg final state at the High-Luminosity LHC with the Phase II CMS detector

Wednesday 27 February 2019 17:13 (1 minute)

Presenter: MONTI, Fabio (Universita & INFN, Milano-Bicocca (IT))

Session Classification: Higgs studies

Contribution ID: 97

Type: **not specified**

CMS HL-LHC projections for di-Higgs production in the di-b di-tau decays channel

Wednesday 27 February 2019 17:14 (1 minute)

Presenter: STRONG, Giles Chatham (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part)

Session Classification: Higgs studies

Contribution ID: 98

Type: **not specified**

Constraints on the Higgs boson self coupling from $t\bar{t}H+tH$, $H\rightarrow\gamma\gamma$ differential measurements with CMS at the HL-LHC

Wednesday 27 February 2019 17:15 (1 minute)

Presenter: LANGFORD, Jonathon Mark (Imperial College (GB))

Session Classification: Higgs studies

Contribution ID: 99

Type: **not specified**

Prospects for HH measurements in the $HH \rightarrow bb4l$ channel with the CMS experiment at the HL-LHC

Wednesday 27 February 2019 17:16 (1 minute)

Presenter: FONTANESI, Elisa (Universita e INFN, Bologna (IT))

Session Classification: Higgs studies

Contribution ID: **100**

Type: **not specified**

Search for dark matter produced in association with a Higgs boson decaying to a pair of W bosons at CMS

Wednesday 27 February 2019 17:05 (1 minute)

Presenter: TREVISANI, Nicolo' (Universidad de Cantabria and CSIC (ES))

Session Classification: BSM searches

Contribution ID: **101**

Type: **not specified**

Searching for high-mass resonances with dijets in CMS

Wednesday 27 February 2019 17:06 (1 minute)

Presenter: KARASAVVAS, Dimitrios (National and Kapodistrian University of Athens (GR))

Session Classification: BSM searches

Contribution ID: **103**

Type: **not specified**

Search for new particles decaying to a jet and an emerging jet in CMS

Wednesday 27 February 2019 17:08 (1 minute)

Presenter: FENG, Yongbin (University of Maryland (US))

Session Classification: BSM searches

Contribution ID: **104**

Type: **not specified**

Search for heavy neutrinos at CMS

Wednesday 27 February 2019 17:09 (1 minute)

Presenter: KIM, Jae Sung (Seoul National University (KR))

Session Classification: BSM searches

Contribution ID: 105

Type: **not specified**

Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at CMS

Wednesday 27 February 2019 17:06 (1 minute)

Presenter: SEITH, David (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Top quark physics

Contribution ID: **106**

Type: **not specified**

Jet Energy Corrections for PUPPI Jets in CMS

Wednesday 27 February 2019 17:09 (1 minute)

Presenter: DIAMANTOPOULOU, Magda (National and Kapodistrian University of Athens (GR))

Session Classification: Physics & detector performance

Contribution ID: **107**

Type: **not specified**

Performances and state of the CMS silicon strip tracker at the end of the run 2

Wednesday 27 February 2019 17:13 (1 minute)

Presenter: BOURGATTE, Guillaume (Institut Pluridisciplinaire Hubert Curien (FR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **108**

Type: **not specified**

The CMS ECAL calibration and monitoring

Wednesday 27 February 2019 17:14 (1 minute)

Presenter: WADUD, Mohammad Abrar (University of Minnesota (US))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **109**

Type: **not specified**

The CMS ECAL Upgrade for Precision Crystal Calorimetry and Timing at the HL-LHC

Wednesday 27 February 2019 17:15 (1 minute)

Presenter: TISHELMAN CHARNY, Abraham (Northeastern University (US))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **110**

Type: **not specified**

Overview of the CMS HCAL Barrel Phase 1 Upgrade

Wednesday 27 February 2019 17:16 (1 minute)

Presenter: CUMMINGS, Grace (University of Virginia)

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **111**

Type: **not specified**

Advanced Aging study on CMS Triple GEMs detector

Wednesday 27 February 2019 17:17 (1 minute)

Presenter: FIORINA, Davide (Universita and INFN (IT))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 112

Type: **not specified**

CMS GEM front-end electronics operational experience

Wednesday 27 February 2019 17:18 (1 minute)

Presenter: SIMONE, Federica Maria (Universita e INFN, Bari (IT))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **113**

Type: **not specified**

Present and future CMS GEM activities in Aachen

Wednesday 27 February 2019 17:19 (1 minute)

Presenter: KELLER, Henning (Rheinisch Westfaelische Tech. Hoch. (DE))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 114

Type: **not specified**

Performance of the GEM detector based on Korean foils for the CMS Muon Upgrade

Wednesday 27 February 2019 17:20 (1 minute)

Presenter: CHOI, Junho (Seoul National University (KR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 115

Type: **not specified**

Performance of the CMS RPC upgrade using 2D fast timing readout system

Wednesday 27 February 2019 17:21 (1 minute)

Presenter: SHCHABLO, Konstantin (Centre National de la Recherche Scientifique (FR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **116**

Type: **not specified**

Improved-RPC for the CMS muon spectrometer upgrade for HL-LHC

Wednesday 27 February 2019 17:22 (1 minute)

Presenter: GELMI, Andrea (Universita e INFN, Bari (IT))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 117

Type: **not specified**

Study of the effects of radiation on the CMS Drift Tubes Muon Detector for the HL-LHC

Wednesday 27 February 2019 17:23 (1 minute)

Presenter: GONZALEZ, Juan (Universidad de Oviedo (ES))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **118**

Type: **not specified**

The L1 Trigger Particle Flow Algorithm for the CMS Phase II Upgrade

Wednesday 27 February 2019 17:24 (1 minute)

Presenter: VOURLIOTIS, Emmanouil (National and Kapodistrian University of Athens (GR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **119**

Type: **not specified**

The L1 e/ γ trigger algorithm and performance using 2018 data at CMS

Wednesday 27 February 2019 17:25 (1 minute)

Presenter: KORAKA, Charis Kleio (National and Kapodistrian University of Athens (GR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 120

Type: **not specified**

The ALICE Muon Forward Tracker commissioning: First beam tests

Wednesday 27 February 2019 17:26 (1 minute)

Presenter: GUITTIERE, Manuel (Centre National de la Recherche Scientifique (FR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 121

Type: **not specified**

Construction and characterization of the upgraded Inner Tracking System for the ALICE experiment

Wednesday 27 February 2019 17:27 (1 minute)

Presenter: RAVASENGA, Ivan (National Academy of Sciences of Ukraine (UA))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 122

Type: **not specified**

Study of Y production as a function of charged-particle multiplicity in pp collisions at $\sqrt{s} =$ 13 TeV with ALICE

Wednesday 27 February 2019 17:11 (1 minute)

Presenter: CHOWDHURY, Tasnuva (Université Clermont Auvergne (FR))

Session Classification: Heavy Flavours

Contribution ID: 123

Type: **not specified**

Measurement of ω mesons in pp collisions at $\sqrt{s} = 7$ TeV with ALICE

Wednesday 27 February 2019 17:00 (1 minute)

Presenter: JONAS, Florian (Westfaelische Wilhelms-Universitaet Muenster (DE))

Session Classification: Jets and QCD studies

Contribution ID: 124

Type: **not specified**

Investigating diffractive processes with the ALICE experiment at the LHC

Wednesday 27 February 2019 17:01 (1 minute)

Presenter: CALVO VILLAR, Ernesto (Pontificia Universidad Catolica del Peru (PE))

Session Classification: Jets and QCD studies

Contribution ID: 125

Type: **not specified**

ATLAS Liquid Argon Calorimeters Operation and Data Quality During the 2018 Run Including Demonstrator Data Taking

Wednesday 27 February 2019 17:28 (1 minute)

Presenters: MAHON, Devin (Columbia University (US)); FALKE, Peter Johannes (Centre National de la Recherche Scientifique (FR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 126

Type: **not specified**

The ATLAS Electron and Photon Trigger

Wednesday 27 February 2019 17:29 (1 minute)

Presenter: FENG, Minyu (Duke University (US))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 127

Type: **not specified**

ATLAS sTGC assembling and testing in Chile

Wednesday 27 February 2019 17:30 (1 minute)

Presenter: ROJAS CABALLERO, Rimsy Alejandro (Federico Santa Maria Technical University (CL))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 128

Type: **not specified**

ATLAS New Small Wheel Micromegas Testbeam Results

Wednesday 27 February 2019 17:31 (1 minute)

Presenter: KOULOURIS, Aimilianos (National Technical Univ. of Athens (GR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: **129**

Type: **not specified**

Overview of the ATLAS ITk Detector

Wednesday 27 February 2019 17:32 (1 minute)

Presenter: RODRIGUEZ RODRIGUEZ, Arturo (Albert Ludwigs Universitaet Freiburg (DE))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 130

Type: **not specified**

Characterization of front-end electronics for the High Granularity Timing Detector in ATLAS

Wednesday 27 February 2019 17:33 (1 minute)

Presenter: AGAPOPOULOU, Christina (Centre National de la Recherche Scientifique (FR))

Session Classification: Detector operations, upgrades and R&D

Contribution ID: 131

Type: **not specified**

Energy scale validation and inter calibration of the ATLAS TileCal using Run 2 cosmic rays data

Wednesday 27 February 2019 17:10 (1 minute)

Presenter: TOMIWA, Kehinde Gbenga (University of the Witwatersrand (ZA))

Session Classification: Physics & detector performance

Contribution ID: 132

Type: **not specified**

Performance of the ATLAS RPC detector and trigger at 13 TeV

Wednesday 27 February 2019 17:11 (1 minute)

Presenter: LI, Heng (University of Science and Technology of China (CN))

Session Classification: Physics & detector performance

Contribution ID: 133

Type: **not specified**

The ATLAS Level-1 Topological Processor: performance during Run-2

Wednesday 27 February 2019 17:12 (1 minute)

Presenter: MORENO MARTINEZ, Carlos (Universitat Autònoma de Barcelona (ES))

Session Classification: Physics & detector performance

Contribution ID: 134

Type: **not specified**

ATLAS muon reconstruction and identification

Wednesday 27 February 2019 17:13 (1 minute)

Presenter: BERGSTEN, Laura Jean (Brandeis University (US))

Session Classification: Physics & detector performance

Contribution ID: 135

Type: **not specified**

Energy scale calibration of the ATLAS liquid argon electromagnetic calorimeter with $Z \rightarrow ee$ events

Wednesday 27 February 2019 17:14 (1 minute)

Presenter: ATMANI, Hicham (Centre National de la Recherche Scientifique (FR))

Session Classification: Physics & detector performance

Contribution ID: 136

Type: **not specified**

In situ measurements of the ATLAS Jet Energy Scale using 13 TeV pp data

Wednesday 27 February 2019 17:15 (1 minute)

Presenter: CAMARERO MUNOZ, Daniel (Universidad Autonoma de Madrid (ES))

Session Classification: Physics & detector performance

Contribution ID: 137

Type: **not specified**

In situ measurements of the ATLAS Jet Energy Resolution using 13 TeV pp data

Wednesday 27 February 2019 17:16 (1 minute)

Presenter: JAEGER, Benjamin Paul (Simon Fraser University (CA))

Session Classification: Physics & detector performance

Contribution ID: 138

Type: **not specified**

Missing Transverse Momentum Significance For Full Run 2 using 13 TeV pp data in ATLAS

Wednesday 27 February 2019 17:17 (1 minute)

Presenter: O'NEILL, Aaron Paul (University of Oxford (GB))

Session Classification: Physics & detector performance

Contribution ID: 139

Type: **not specified**

Deep Neural Network based tagger for Flavour Tagging at the ATLAS experiment

Wednesday 27 February 2019 17:18 (1 minute)

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

Session Classification: Physics & detector performance

Contribution ID: 140

Type: **not specified**

Observation of electroweak WZjj production at $\sqrt{s}=13$ TeV with the ATLAS detector

Wednesday 27 February 2019 17:01 (1 minute)

Presenter: PORTALES, Louis (LAPP (FR) - Université Savoie Mont-Blanc)

Session Classification: EW gauge bosons

Contribution ID: 141

Type: **not specified**

Measurement of the $Z\gamma\rightarrow\nu\nu\gamma$ production cross section in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings

Wednesday 27 February 2019 17:02 (1 minute)

Presenter: KUROVA, Anastasia (National Research Nuclear University MEPhI (RU))

Session Classification: EW gauge bosons

Contribution ID: 142

Type: **not specified**

Search for electroweak supersymmetry in events with two leptons and missing transverse momentum in the final state at 13 TeV with the ATLAS detector

Wednesday 27 February 2019 17:10 (1 minute)

Presenter: PACEY, Holly Ann (University of Cambridge (GB))

Session Classification: BSM searches

Contribution ID: 143

Type: **not specified**

The Lifetime Frontier: Search for displaced hadronic jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

Wednesday 27 February 2019 17:11 (1 minute)

Presenter: KVAM, Audrey Katherine (University of Washington (US))

Session Classification: BSM searches

Contribution ID: 144

Type: **not specified**

Trigger and search prospects for dark-photons decaying to displaced collimated jets of muons at HL-LHC with the ATLAS detector

Wednesday 27 February 2019 17:12 (1 minute)

Presenter: SEBASTIANI, Cristiano (INFN Roma and Sapienza Universita' di Roma (IT))

Session Classification: BSM searches

Contribution ID: 145

Type: **not specified**

Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at 13 TeV with the ATLAS detector.

Wednesday 27 February 2019 17:13 (1 minute)

Presenter: NIBIGIRA, Emery (Université Clermont Auvergne (FR))

Session Classification: BSM searches

Contribution ID: 147

Type: **not specified**

Measurements of simplified fiducial cross sections for the associated production of a weak gauge boson and a Higgs boson decaying to a pair of b quarks in ATLAS

Wednesday 27 February 2019 17:17 (1 minute)

Presenters: LI, Changqiao (Univ. of Science & Tech. of China (CN)); LI, Changqiao (USTC(CN)/LPNHE(Paris))

Session Classification: Higgs studies

Contribution ID: 148

Type: **not specified**

Combination of searches for invisible Higgs boson decays with the ATLAS detector

Wednesday 27 February 2019 17:18 (1 minute)

Presenter: DREYER, Sascha Simon (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: Higgs studies

Contribution ID: 149

Type: **not specified**

Light flavor and resonance production in multiple collision systems with ALICE

Wednesday 27 February 2019 17:05 (1 minute)

Presenter: LIM, Bong-Hwi (Pusan National University (KR))

Session Classification: Heavy Ion Collisions

Contribution ID: **150**

Type: **not specified**

The FASER experiment

Wednesday 27 February 2019 17:14 (1 minute)

Presenter: NEUHAUS, Friedemann (Johannes Gutenberg Universitaet Mainz (DE))

Session Classification: BSM searches