

# **10th LHC students poster session**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## The FASER experiment

*Wednesday, 19 February 2020 17:10 (1 minute)*

**Presenter:** THEINER, Ondrej (Universite de Geneve (CH))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 2

Type: **not specified**

## Searches at MoEDAL

*Wednesday, 19 February 2020 17:06 (1 minute)*

**Presenter:** BIN AKBER ALI, Ameir Shaa (Nanyang Technological University (SG))

**Session Classification:** BSM searches

Contribution ID: 3

Type: **not specified**

## **Measurement of the Z boson transverse momentum distribution with ATLAS**

*Wednesday, 19 February 2020 17:00 (1 minute)*

**Presenter:** BRICKWEDDE, Bernard (Johannes Gutenberg Universitaet Mainz (DE))

**Session Classification:** EW gauge bosons

Contribution ID: 4

Type: **not specified**

## **Observation of electroweak production of two jets in association with a Z boson pair with ATLAS**

*Wednesday, 19 February 2020 17:01 (1 minute)*

**Presenter:** ZHANG, Shuzhou (University of Michigan (US))

**Session Classification:** EW gauge bosons

Contribution ID: 5

Type: **not specified**

## **Measurement of the Lund jet plane using charged particles with ATLAS**

*Wednesday, 19 February 2020 17:01 (1 minute)*

**Presenter:** SOPIO, Alexander Linus (University College London (GB))

**Session Classification:** Jets and QCD studies

Contribution ID: 6

Type: **not specified**

## **Study of the rare decays of B0s and B0 mesons into muon pairs using data collected during 2015 and 2016 with the ATLAS detector**

*Wednesday, 19 February 2020 17:03 (1 minute)*

**Presenter:** GRUMMER, Aidan (University of New Mexico (US))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 7

Type: **not specified**

## **Observation of the associated production of a top quark and a Z boson in pp collisions with the ATLAS detector**

*Wednesday, 19 February 2020 17:04 (1 minute)*

**Presenter:** ALHROOB, Muhammad (University of Oklahoma (US))

**Session Classification:** Top quark physics

Contribution ID: 8

Type: **not specified**

## **Measurements of the inclusive and differential Higgs production cross sections in the $H \rightarrow ZZ^* \rightarrow 4l$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector**

*Wednesday, 19 February 2020 17:05 (1 minute)*

**Presenter:** CIUNGU, Bianca Monica (University of Toronto (CA))

**Session Classification:** Higgs studies

Contribution ID: 9

Type: **not specified**

## **Combined measurement of the Higgs-boson self coupling using single- and di-Higgs production and decay channels with the ATLAS detector**

*Wednesday, 19 February 2020 17:06 (1 minute)*

**Presenter:** ROSSI, Eleonora (Universita e INFN Roma Tre (IT))

**Session Classification:** Higgs studies

Contribution ID: **10**

Type: **not specified**

## **Prospects for combined Higgs measurements at the HL-LHC with the ATLAS detector**

*Wednesday, 19 February 2020 17:07 (1 minute)*

**Presenter:** DU, Dongshuo (Shandong University (CN))

**Session Classification:** Higgs studies

Contribution ID: 11

Type: **not specified**

## **Search for new resonant phenomena in the high-mass dilepton final states using Run 2 data from ATLAS**

*Wednesday, 19 February 2020 17:07 (1 minute)*

**Presenter:** WHITE, Aaron (University of Michigan)

**Session Classification:** BSM searches

Contribution ID: 12

Type: **not specified**

## **Search for Long Lived Dark Photon signatures with the ATLAS detector at LHC**

*Wednesday, 19 February 2020 17:08 (1 minute)*

**Presenter:** LONGARINI, Iacopo (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** BSM searches

Contribution ID: 13

Type: **not specified**

## **Search for neutral long-lived particles decaying into displaced jets in the ATLAS calorimeter**

*Wednesday, 19 February 2020 17:09 (1 minute)*

**Presenter:** PROFFITT, Mason (University of Washington (US))

**Session Classification:** BSM searches

Contribution ID: 14

Type: **not specified**

## **Search for sbottom pair production with the ATLAS detector in pp collision events with Higgs bosons, b-jets and missing transverse momentum**

*Wednesday, 19 February 2020 17:10 (1 minute)*

**Presenter:** FOMIN, Nikolai (University of Bergen (NO))

**Session Classification:** BSM searches

Contribution ID: 15

Type: **not specified**

## **Fast Calorimeter Simulation in ATLAS: FastCaloSimV2**

*Wednesday, 19 February 2020 17:11 (1 minute)*

**Presenter:** GASIOROWSKI, Sean Joseph (University of Washington (US))

**Session Classification:** Physics and detector performance

Contribution ID: 16

Type: **not specified**

## **Scale-factor smoothing for flavor-tagging efficiency calibration in ATLAS**

*Wednesday, 19 February 2020 17:09 (1 minute)*

**Presenter:** SMITH, Hayden (University of Oxford (GB))

**Session Classification:** Physics and detector performance

Contribution ID: 17

Type: **not specified**

## **ATLAS Inner Detector Alignment: Inclusion of Insertable B-Layer sensor shape**

*Wednesday, 19 February 2020 17:10 (1 minute)*

**Presenter:** WOLLRATH, Julian (Albert-Ludwigs-Universität Freiburg)

**Session Classification:** Physics and detector performance

Contribution ID: **18**

Type: **not specified**

## **Identification of hadronic tau lepton decays using neural networks in the ATLAS experiment**

*Wednesday, 19 February 2020 17:08 (1 minute)*

**Presenter:** DEUTSCH, Christopher (University of Bonn (DE))

**Session Classification:** Physics and detector performance

Contribution ID: 19

Type: **not specified**

## **Development of ADC for the ATLAS Liquid Argon Calorimeter Readout Electronics upgrade for the HL-LHC**

*Wednesday, 19 February 2020 17:11 (1 minute)*

**Presenter:** PANCHAL, Devanshu Kiran (University of Texas at Austin (US))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 20

Type: **not specified**

## **Status of the ATLAS LAr calorimeter Phase I upgrade installation and commissioning**

*Wednesday, 19 February 2020 17:12 (1 minute)*

**Presenter:** KETABCHI, Sana (University of Toronto (CA))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 21

Type: **not specified**

## **Laser Calibration system in ATLAS Tile Calorimeter**

*Wednesday, 19 February 2020 17:13 (1 minute)*

**Presenter:** AHMAD, Ammara (The Barcelona Institute of Science and Technology (BIST) (ES))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 22

Type: **not specified**

## **The DCS Software for validation and integration of the ATLAS New Small Wheel detectors**

*Wednesday, 19 February 2020 17:14 (1 minute)*

**Presenter:** TZANIS, Polyneikis (National Technical Univ. of Athens (GR))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 23

Type: **not specified**

## **The Micromegas construction project for the ATLAS New Small Wheel**

*Wednesday, 19 February 2020 17:15 (1 minute)*

**Presenter:** MANIATIS, Ioannis Michail (Aristotle University of Thessaloniki (GR))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 24

Type: **not specified**

## **Performance of LM1 Micromegas Detectors for the ATLAS NSW using cosmic muons**

*Wednesday, 19 February 2020 17:16 (1 minute)*

**Presenter:** WU, Zhibo (Université Paris-Saclay (FR))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 25

Type: **not specified**

## **ATLAS ITk pixel sensor characterization**

*Wednesday, 19 February 2020 17:17 (1 minute)*

**Presenter:** FITSCHEN, Tobias (Université Paris-Saclay (FR))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 26

Type: **not specified**

## Expected Performance of the ATLAS ITk

*Wednesday, 19 February 2020 17:18 (1 minute)*

**Presenter:** SCHILLACI, Zachary Michael (Brandeis University (US))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 27

Type: **not specified**

## **The Tile Rear Extension Module for the phase-I upgrade of the ATLAS L1Calo Trigger System**

*Wednesday, 19 February 2020 17:19 (1 minute)*

**Presenter:** MKRTCHYAN, Tigran (Ruprecht Karls Universitaet Heidelberg (DE))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 28

Type: **not specified**

## **Fast Deep Learning on FPGAs for the Phase-II L0 Muon Barrel Trigger of the ATLAS Experiment**

*Wednesday, 19 February 2020 17:20 (1 minute)*

**Presenter:** SABETTA, Luigi (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 29

Type: **not specified**

## The ATLAS Electron and Photon Trigger Performance in Run 2

*Wednesday, 19 February 2020 17:21 (1 minute)*

**Presenter:** Mr BAKSHI GUPTA, Debottam (University of Texas at Arlington (US))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 32

Type: **not specified**

## Measurement of Z-boson production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE

*Wednesday, 19 February 2020 17:02 (1 minute)*

**Presenter:** AZIZ, Sizar (Université Paris-Saclay (FR))

**Session Classification:** EW gauge bosons

Contribution ID: 33

Type: **not specified**

## **Measurement of J/psi polarization in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE**

*Wednesday, 19 February 2020 17:02 (1 minute)*

**Presenter:** MICHELETTI, Luca (Universita e INFN Torino (IT))

**Session Classification:** Heavy Ion Collisions

Contribution ID: 34

Type: **not specified**

## **ALICE: Dead-cone effect in Monte Carlo simulations of Lund plane for bottom jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**

*Wednesday, 19 February 2020 17:02 (1 minute)*

**Presenter:** GARNER, Katharina (Westfaelische Wilhelms-Universitaet Muenster (DE))

**Session Classification:** Jets and QCD studies

Contribution ID: 35

Type: **not specified**

## **Measurement of $D^{*+-}$ -meson production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE**

*Wednesday, 19 February 2020 17:03 (1 minute)*

**Presenter:** JAELANI, Syaefudin (Utrecht University (NL))

**Session Classification:** Heavy Ion Collisions

Contribution ID: 36

Type: **not specified**

## **Shaping the Quark-Gluon Plasma with flow measurements in ALICE**

*Wednesday, 19 February 2020 17:04 (1 minute)*

**Presenter:** BESOIU, Mihaela Gabriela (Institute of Space Science (RO))

**Session Classification:** Heavy Ion Collisions

Contribution ID: 37

Type: **not specified**

## **Multiplicity dependence of light (anti-)nuclei production with ALICE**

*Wednesday, 19 February 2020 17:05 (1 minute)*

**Presenter:** BALBINO, Alessandro (Politecnico di Torino (IT))

**Session Classification:** Heavy Ion Collisions

Contribution ID: 38

Type: **not specified**

## **Measurement of $\Lambda_c$ baryon production in proton-proton and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE**

*Wednesday, 19 February 2020 17:04 (1 minute)*

**Presenter:** HILLS, Christopher (University of Liverpool (GB))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 39

Type: **not specified**

## **Upgrade of the Readout System in the ALICE TPC for Run 3**

*Wednesday, 19 February 2020 17:23 (1 minute)*

**Presenter:** BRATRUD, Lars (Goethe University Frankfurt (DE))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 40

Type: **not specified**

## **Measurement of (anti-)hypertriton production in Pb-Pb collisions with ALICE using machine learning techniques**

*Wednesday, 19 February 2020 17:06 (1 minute)*

**Presenter:** MAZZASCHI, Francesco (Universita e INFN Torino (IT))

**Session Classification:** Heavy Ion Collisions

Contribution ID: 41

Type: **not specified**

## Prospects with the upgrade of the ALICE Inner Tracking System in LS3

*Wednesday, 19 February 2020 17:24 (1 minute)*

**Presenter:** ANDREOU, Dimitra (Nikhef National institute for subatomic physics (NL))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 42

Type: **not specified**

## **ALICE measurements of rho0 photoproduction in ultra-peripheral Pb-Pb collisions**

*Wednesday, 19 February 2020 17:07 (1 minute)*

**Presenter:** HORAK, David (Czech Technical University (CZ))

**Session Classification:** Heavy Ion Collisions

Contribution ID: 43

Type: **not specified**

## Measurements of D0-tagged jets in proton-proton collisions with ALICE

*Wednesday, 19 February 2020 17:05 (1 minute)*

**Presenter:** KVAPIL, Jakub (University of Birmingham (GB))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 44

Type: **not specified**

## **Analysis of b jets in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE**

*Wednesday, 19 February 2020 17:03 (1 minute)*

**Presenter:** ISAKOV, Artem (Czech Academy of Sciences (CZ))

**Session Classification:** Jets and QCD studies

Contribution ID: 45

Type: **not specified**

## **“Measurement of the cross section and constraints on anomalous quartic couplings from VBS Zgamma with CMS detector**

*Wednesday, 19 February 2020 17:03 (1 minute)*

**Presenter:** Ms AN, Ying (Peking University (CN))

**Session Classification:** EW gauge bosons

Contribution ID: 46

Type: **not specified**

## **Studies of Strange and Non-Strange Beauty Productions in PbPb Collisions with the CMS Detector**

*Wednesday, 19 February 2020 17:08 (1 minute)*

**Presenter:** SHI, Zhaozhong (Massachusetts Inst. of Technology (US))

**Session Classification:** Heavy Ion Collisions

Contribution ID: 48

Type: **not specified**

## **Measurement of Higgs boson couplings in the ditau final state at CMS**

*Wednesday, 19 February 2020 17:08 (1 minute)*

**Presenter:** KIM, Doyeong (KANSAS STATE UNIVERSITY)

**Session Classification:** Higgs studies

Contribution ID: 49

Type: **not specified**

## **Differential measurements of the Higgs boson production cross section in the leptonic WW decay mode with CMS detector**

*Wednesday, 19 February 2020 17:09 (1 minute)*

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

**Session Classification:** Higgs studies

Contribution ID: 50

Type: **not specified**

## **Search for a heavy scalar decaying to W boson pair with CMS experiment with $\sqrt{s} = 13$ TeV proton-proton data**

*Wednesday, 19 February 2020 17:10 (1 minute)*

**Presenter:** SIEBERT, Sebastian (Rheinisch Westfaelische Tech. Hoch. (DE))

**Session Classification:** Higgs studies

Contribution ID: 51

Type: **not specified**

## **Higgs cross section measurements in the four lepton final state at CMS**

*Wednesday, 19 February 2020 17:11 (1 minute)*

**Presenter:** JAVAID, Tahir (Chinese Academy of Sciences (CN))

**Session Classification:** Higgs studies

Contribution ID: 52

Type: **not specified**

## **Measurement of Higgs boson pair production self coupling with the full run2 datasets with CMS detector**

*Wednesday, 19 February 2020 17:12 (1 minute)*

**Presenter:** TALIERCIO, Angela (Universite Catholique de Louvain (UCL) (BE))

**Session Classification:** Higgs studies

Contribution ID: 53

Type: **not specified**

## The multilepton searchlight at CMS

*Wednesday, 19 February 2020 17:11 (1 minute)*

**Presenter:** RASTOGI, Angira (Indian Institute of Science Education and Research (IN))

**Session Classification:** BSM searches

Contribution ID: 54

Type: **not specified**

## **SUSY search with photon, MET and jets at CMS**

*Wednesday, 19 February 2020 17:12 (1 minute)*

**Presenter:** KANSAL, Bhumika (Indian Institute of Science Education and Research (IN))

**Session Classification:** BSM searches

Contribution ID: 55

Type: **not specified**

## **Pileup mitigation techniques in CMS**

*Wednesday, 19 February 2020 17:12 (1 minute)*

**Presenter:** BENECKE, Anna (Hamburg University (DE))

**Session Classification:** Physics and detector performance

Contribution ID: 56

Type: **not specified**

## **A deep neural network-based tagger to search for new long-lived particle states decaying to jets with CMS detector**

*Wednesday, 19 February 2020 17:13 (1 minute)*

**Presenter:** CEPAITIS, Vilius (Imperial College (GB))

**Session Classification:** Physics and detector performance

Contribution ID: 57

Type: **not specified**

## **HV and LV monitoring system for CMS GE1/1 detectors in the cosmic stand and in CMS experiment**

*Wednesday, 19 February 2020 17:25 (1 minute)*

**Presenter:** CALZAFERRI, Simone (Università degli studi di Pavia - INFN Pavia)

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 58

Type: **not specified**

## **CMS GE1/1 super chambers validation, installation and commissioning**

*Wednesday, 19 February 2020 17:26 (1 minute)*

**Presenter:** MOCELLIN, Giovanni (Rheinisch Westfaelische Tech. Hoch. (DE))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 59

Type: **not specified**

## **Construction and certification of the CMS GE1/1 detectors for the upgrade of the CMS experiment**

*Wednesday, 19 February 2020 17:27 (1 minute)*

**Presenter:** RAMIREZ GARCIA, Luis Felipe (Universidad de Antioquia (CO))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: **60**

Type: **not specified**

## **Novel triple-GEM mechanical design for CMS-ME0 detector and preliminary performance**

*Wednesday, 19 February 2020 17:28 (1 minute)*

**Presenter:** FIORINA, Davide (Universita & INFN Pavia)

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: **61**

Type: **not specified**

## **Performance of the CMS L1 muon trigger in the overlap region for HL-LHC upgrade.**

*Wednesday, 19 February 2020 17:29 (1 minute)*

**Presenter:** ERICE CID, Carlos Francisco (Universidad de Oviedo (ES))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 62

Type: **not specified**

## **Precision single hit resolution measurements for the CMS Inner Tracker Phase-2 upgrade**

*Wednesday, 19 February 2020 17:30 (1 minute)*

**Presenter:** ZOI, Irene (University Hamburg)

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 63

Type: **not specified**

## **Radiation damage characterization of CMS phase I pixel modules**

*Wednesday, 19 February 2020 17:31 (1 minute)*

**Presenter:** HAZA, Grace (University of California Davis (US))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 64

Type: **not specified**

## **Performance of CMS High Granularity Calorimeters in Beam Test Experiments**

*Wednesday, 19 February 2020 17:32 (1 minute)*

**Presenter:** PANDEY, Shubham (Indian Institute of Science Education and Research (IN))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 65

Type: **not specified**

## **CMS HGICAL: Evaluation of the impact of different partial silicon wafer geometries in the response to electromagnetic showers**

*Wednesday, 19 February 2020 17:33 (1 minute)*

**Presenter:** ALVES, Bruno (ADI Agencia de Inovacao (PT))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: **66**

Type: **not specified**

## **Electromagnetic performance analyses of CMS HGAL prototypes**

*Wednesday, 19 February 2020 17:34 (1 minute)*

**Presenter:** BONANOMI, Matteo (Centre National de la Recherche Scientifique (FR))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 67

Type: **not specified**

## **HGCal - High Granularity Calorimeter for CMS, Detector Overview**

*Wednesday, 19 February 2020 17:35 (1 minute)*

**Presenter:** RAPACZ, Karol (CERN)

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: **68**

Type: **not specified**

## **Study of single diffractive processes in proton-proton collisions with the TOTEM experiment**

*Wednesday, 19 February 2020 17:04 (1 minute)*

**Presenter:** OLJEMARK, Fredrik (Helsinki Institute of Physics (FI))

**Session Classification:** Jets and QCD studies

Contribution ID: **69**

Type: **not specified**

## **Scintillator studies for the new TOTEM T2 telescope**

*Wednesday, 19 February 2020 17:36 (1 minute)*

**Presenter:** KAYNAK, Berkan (Istanbul University (TR))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 70

Type: **not specified**

## **Updated measurement of decay-time-dependent CP asymmetries in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ decays at LHCb**

*Wednesday, 19 February 2020 17:06 (1 minute)*

**Presenter:** UNVERZAGT, Daniel (Ruprecht Karls Universitaet Heidelberg (DE))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 71

Type: **not specified**

## Doubly charmed baryon searches and studies at LHCb

*Wednesday, 19 February 2020 17:07 (1 minute)*

**Presenter:** SEMAN BOBULSKA, Dana (University of Glasgow (GB))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 72

Type: **not specified**

## Construction of the Upstream Tracker for the LHCb Upgrade

*Wednesday, 19 February 2020 17:37 (1 minute)*

**Presenters:** ELY, Scott Edward (Syracuse University (US)); ELY, Scott (Syracuse University)

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 73

Type: **not specified**

## **Prospects for using sub-nanosecond time information to improve the LHCb RICH performance**

*Wednesday, 19 February 2020 17:38 (1 minute)*

**Presenter:** KEIZER, Floris (University of Cambridge (GB))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: 74

Type: **not specified**

## Measurement of $V_{cb}$ using $B_s \rightarrow D_s^{(*)} \mu \nu$ decays at LHCb

*Wednesday, 19 February 2020 17:10 (1 minute)*

**Presenter:** MANUZZI, Daniele (Universita e INFN, Bologna (IT))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 75

Type: **not specified**

## **Measurement of CP violation in $B^0 \rightarrow D^{*\pm} D^\mp$ decays at LHCb**

*Wednesday, 19 February 2020 17:08 (1 minute)*

**Presenter:** IBIS, Philipp (Technische Universitaet Dortmund (DE))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 76

Type: **not specified**

## **Lepton universality tests with rare decays at LHCb**

*Wednesday, 19 February 2020 17:09 (1 minute)*

**Presenter:** MOISE, Razvan-Daniel (Imperial College (GB))

**Session Classification:** Physics of heavy flavours (charm and bottom, including production)

Contribution ID: 77

Type: **not specified**

## Flavour Tagging at the LHCb experiment

*Wednesday, 19 February 2020 17:14 (1 minute)*

**Presenter:** FUHRING, Marc Quentin (Technische Universitaet Dortmund (DE))

**Session Classification:** Physics and detector performance

Contribution ID: 78

Type: **not specified**

## **SMOG2 reconstruction performance: fixed-target physics at the LHCb experiment from Run3**

*Wednesday, 19 February 2020 17:15 (1 minute)*

**Presenter:** MARIANI, Saverio (Universita e INFN, Firenze (IT))

**Session Classification:** Physics and detector performance

Contribution ID: 79

Type: **not specified**

## **LHCb's Real-time Analysis Project and Development of Fast Tracking**

*Wednesday, 19 February 2020 17:16 (1 minute)*

**Presenters:** GUNTHER, Andre; GÜNTHER, André (Ruprecht Karls Universitaet Heidelberg (DE)); GÜNTHER, André

**Session Classification:** Physics and detector performance

Contribution ID: **80**

Type: **not specified**

## **LHCb VELO Upgrade Module Production**

*Wednesday, 19 February 2020 17:39 (1 minute)*

**Presenter:** SVIHRA, Peter (University of Manchester (GB))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: **81**

Type: **not specified**

## **Readout system for the phase I of the LHCb VELO upgrade**

*Wednesday, 19 February 2020 17:40 (1 minute)*

**Presenter:** FERNANDEZ PRIETO, Antonio (Instituto Galego de Física de Altas Enerxías (IGFAE) Universidade de Santiago de Compostela (ES))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: **82**

Type: **not specified**

## **Real-time computing solutions for LHCb based on FPGAs**

*Wednesday, 19 February 2020 17:41 (1 minute)*

**Presenters:** LAZZARI, Federico (Universita di Siena & INFN Pisa (IT)); LAZZARI, Federico (Universita & INFN Pisa (IT))

**Session Classification:** Detector operations, upgrades and R&D

Contribution ID: **83**

Type: **not specified**

## **LHCb Velo upgrade software platform**

*Wednesday, 19 February 2020 17:42 (1 minute)*

**Presenter:** MAJEWSKI, Maciej Witold (AGH University of Science and Technology (PL))

**Session Classification:** Detector operations, upgrades and R&D