

LHC students poster session

Report of Contributions

Contribution ID: 0

Type: **not specified**

Search for the lepton flavour violating decay $\tau^- \rightarrow \mu^+ \mu^- \mu^-$ with the LHCb detector

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: GAVARDI, Laura (Technische Universitaet Dortmund (DE))

Session Classification: BSM searches

Contribution ID: 1

Type: **not specified**

Forward Z+jet production in $\sqrt{s} = 7$ TeV pp collisions at LHCb

Wednesday 5 March 2014 17:02 (1h 58m)

Presenter: SALUSTINO GUIMARAES, Valdir (Univ. Federal do Rio de Janeiro (BR))

Session Classification: EW gauge bosons

Contribution ID: 2

Type: **not specified**

Prospects for $\Lambda_{b} \rightarrow p\mu\nu$ at LHCb

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: SUTCLIFFE, William Lawrence (Imperial College Sci., Tech. & Med. (GB))

Session Classification: Physics of heavy flavours

Contribution ID: 3

Type: **not specified**

Measurement of the $B_{c/s}$ Lifetime in semileptonic decays at LHCb

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: ANDERLINI, Lucio (Universita e INFN (IT))

Session Classification: Physics of heavy flavours

Contribution ID: 4

Type: **not specified**

LHCb searches for Λ_b^0 and Ξ_b^0 decays to $K_S^0 p \pi^-$ and $K_S^0 p K^-$ final states with first observation of the $\Lambda_b^0 \rightarrow K_S^0 p \pi^-$ decay

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: SILVA COUTINHO, Rafael (University of Warwick (GB))

Session Classification: Physics of heavy flavours

Contribution ID: 5

Type: **not specified**

Branching fraction of $B_{s^0} \rightarrow D_{s^0} K$ at LHCb

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: BEL, Lennaert Johannes (NIKHEF (NL))

Session Classification: Physics of heavy flavours

Contribution ID: 6

Type: **not specified**

A time-dependent measurement of charm CP violation at LHCb

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: SMITH, Mark Elliot (University of Manchester (GB))

Session Classification: Physics of heavy flavours

Contribution ID: 7

Type: **not specified**

Observation of photon polarization in $B \rightarrow K\pi\pi\gamma$ decays at LHCb

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: VENEZIANO, Giovanni (Ecole Polytechnique Federale de Lausanne (CH))

Session Classification: Physics of heavy flavours

Contribution ID: 8

Type: **not specified**

Trigger tracking for the LHCb upgrade

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: DUNGS, Kevin (Technische Universitaet Dortmund (DE))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 9

Type: **not specified**

Measurements of inclusive Z and Z plus D production at $\sqrt{s} = 7$ TeV at LHCb

Presenter: WALLACE, Ronan James (University College Dublin (IE))

Contribution ID: **10**

Type: **not specified**

Prospect for rare strange decays at LHCb

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: MARIN BENITO, Carla (University of Barcelona (ES))

Session Classification: Physics of heavy flavours

Contribution ID: 11

Type: **not specified**

**$B_s \rightarrow D_s^{(*)} D_s$ decays at
LHCb**

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: PRITCHARD, Adrian Andrew (University of Liverpool (GB))

Session Classification: Physics of heavy flavours

Contribution ID: 12

Type: **not specified**

Hadronic event shapes in pp collisions at 7 TeV with the CMS detector

Wednesday 5 March 2014 17:01 (1h 59m)

Presenter: BHOWMIK, Sandeep (Visva-Bharati University (IN))

Session Classification: Jets and QCD studies

Contribution ID: 13

Type: **not specified**

PDF constraints and extraction of the strong coupling constant from the inclusive jet cross section at 7 TeV with the CMS experiment

Wednesday 5 March 2014 17:01 (1h 59m)

Presenter: SIEBER, Georg (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Jets and QCD studies

Contribution ID: 14

Type: **not specified**

Measurement of Drell-Yan and associated jet cross section at low and high invariant masses with the CMS detector

Wednesday 5 March 2014 17:01 (1h 59m)

Presenter: DOOLING, Samantha Katherine (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Jets and QCD studies

Contribution ID: 15

Type: **not specified**

Electroweak (VBF) production of a Z boson in association with forward/backward jets at CMS

Wednesday 5 March 2014 17:02 (1h 58m)

Presenter: CORNELIS, Tom (University of Antwerp (BE))

Session Classification: EW gauge bosons

Contribution ID: 16

Type: **not specified**

Study of charm and bottom production in association with a W boson at CMS

Wednesday 5 March 2014 17:02 (1h 58m)

Presenter: PERRY, Thomas Mastrianni (University of Wisconsin (US))

Session Classification: EW gauge bosons

Contribution ID: 17

Type: **not specified**

Measurement of differential isolated diphoton production cross section at CMS

Wednesday 5 March 2014 17:02 (1h 58m)

Presenter: PERUZZI, Marco (Eidgenoessische Tech. Hochschule Zuerich (CH))

Session Classification: EW gauge bosons

Contribution ID: **18**

Type: **not specified**

Measurement of the production cross sections for a Z boson and one or more b jets at 7 TeV with the CMS detector

Wednesday 5 March 2014 17:02 (1h 58m)

Presenter: CAUDRON, Adrien (Universite Catholique de Louvain (UCL) (BE))

Session Classification: EW gauge bosons

Contribution ID: **19**

Type: **not specified**

CMS pA dijet measurements

Wednesday 5 March 2014 17:03 (1h 57m)

Presenter: GULHAN, Doga Can (Massachusetts Inst. of Technology (US))

Session Classification: Heavy Ion Collisions

Contribution ID: 20

Type: **not specified**

Measurement of top polarization in t-channel single-top production at CMS

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: TIKO, Andres (Nat. Inst. of Chem.Phys. & Biophys. (EE))

Session Classification: Top quark physics

Contribution ID: 21

Type: **not specified**

Search for s-channel single top-quark production in p-p collisions at 8 TeV by the CMS

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: REZAEI HOSSEINABADI, Ferdos (School of Particles and Accelerator Inst. for Res. in Fundam. S)

Session Classification: Top quark physics

Contribution ID: 22

Type: **not specified**

Measurement of the top-quark pair+photon production cross section in pp collisions at $\sqrt{s} = 8$ TeV with the CMS detector

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: THOLEN, Heiner (Hamburg University (DE))

Session Classification: Top quark physics

Contribution ID: 23

Type: **not specified**

Combination of the CMS measurements of the top quark mass

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: KWON, Eunhyang (Sungkyunkwan University (KR))

Session Classification: Top quark physics

Contribution ID: 24

Type: **not specified**

Measurement of the top-quair pair production cross section in the dilepton channel in pp collisions at 8 TeV with the CMS detector

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: KHURSHID, Taimoor (Quaid-i-Azam University (PK))

Session Classification: Top quark physics

Contribution ID: 25

Type: **not specified**

Study of the underlying event and exclusive b decays in top-pair events at CMS

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: BOUVIER, Elvire (Universite Claude Bernard-Lyon I (FR))

Session Classification: Top quark physics

Contribution ID: 26

Type: **not specified**

Search for the Standard Model Higgs boson decaying to bottom quarks with the CMS experiment

Wednesday 5 March 2014 17:07 (1h 53m)

Presenter: VERNIERI, Caterina (Sezione di Pisa (IT))

Session Classification: Higgs studies

Contribution ID: 27

Type: **not specified**

Properties of the Higgs-like boson in the $H \rightarrow ZZ \rightarrow 4$ leptons decay channel at CMS

Wednesday 5 March 2014 17:07 (1h 53m)

Presenter: FINCO, Linda (Universita e INFN (IT))

Session Classification: Higgs studies

Contribution ID: 28

Type: **not specified**

Search for Higgs boson production within supersymmetric cascades in hadronic final states using invariant mass distribution and MT_2 at CMS

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: MASCIOVECCHIO, Mario (Eidgenoessische Tech. Hochschule Zuerich (CH))

Session Classification: BSM searches

Contribution ID: 29

Type: **not specified**

Searches for electroweak SUSY production at CMS

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: DUNSER, Marc (Eidgenoessische Tech. Hochschule Zuerich (CH))

Session Classification: BSM searches

Contribution ID: 30

Type: **not specified**

Search for excited quarks in the photon + jet final state in pp collisions at 8 TeV with the CMS experiment

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: SHARMA, Varun (University of Delhi (IN))

Session Classification: BSM searches

Contribution ID: 31

Type: **not specified**

Search for top-squark pair production in the single-lepton final state in pp collisions at 8 TeV with the CMS experiment

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: AUBIN, Alexandre (Institut Pluridisciplinaire Hubert Curien (FR))

Session Classification: BSM searches

Contribution ID: 32

Type: **not specified**

Search for a vector-like bottom quark partner at CMS

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: MAJUMDER, Devdatta (National Taiwan University (TW))

Session Classification: BSM searches

Contribution ID: 33

Type: **not specified**

Search for third generation scalar leptoquarks decaying to top quark - tau lepton pairs in pp collisions with the CMS detector

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: SAKA, Halil (Princeton University (US))

Session Classification: BSM searches

Contribution ID: 34

Type: **not specified**

Search for new massive resonances in dilepton mass spectra in pp collisions at 8 TeV with the CMS detector

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: REIS, Thomas (Universite Libre de Bruxelles (BE))

Session Classification: BSM searches

Contribution ID: 35

Type: **not specified**

Quark/gluon jet discrimination in 8 TeV pp data at CMS

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: MARINI, Andrea Carlo (Eidgenoessische Tech. Hochschule Zuerich (CH))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 36

Type: **not specified**

First results and prospects of CMS-CASTOR together with TOTEM-T2

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: WOHRMANN, Clemens (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 37

Type: **not specified**

Azimuthal angular correlations between heavy-flavour decay electrons and charged hadrons in pp collisions at $\sqrt{s} = 7$ TeV using the ALICE detector

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: VAN DER MAAREL, Jasper (University of Utrecht (NL))

Session Classification: Physics of heavy flavours

Contribution ID: **38**

Type: **not specified**

Measurement of the D-meson nuclear modification factor in p-Pb collisions with ALICE

Wednesday 5 March 2014 17:03 (1h 57m)

Presenter: RUSSO, Riccardo (Universita e INFN (IT))

Session Classification: Heavy Ion Collisions

Contribution ID: 39

Type: **not specified**

Measurement of D-hadron azimuthal correlations in pp and p-Pb collisions with ALICE

Wednesday 5 March 2014 17:03 (1h 57m)

Presenter: KUMAR, Jitendra (IIT- Indian Institute of Technology (IN))

Session Classification: Heavy Ion Collisions

Contribution ID: 40

Type: **not specified**

Measurement of electrons from charm- and beauty-hadron decays in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE at the LHC

Wednesday 5 March 2014 17:03 (1h 57m)

Presenter: WAGNER, Jan (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Session Classification: Heavy Ion Collisions

Contribution ID: 41

Type: **not specified**

Minijets analysis with two-particle correlations in p-Pb collisions with ALICE

Wednesday 5 March 2014 17:03 (1h 57m)

Presenter: LEOGRANDE, Emilia (University of Utrecht (NL))

Session Classification: Heavy Ion Collisions

Contribution ID: 42

Type: **not specified**

Exclusive reconstruction of B meson decays with the ALICE inner tracker upgrade

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: STILLER, Johannes Hendrik (Ruprecht-Karls-Universitaet Heidelberg (DE))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 43

Type: **not specified**

Fast Interaction Trigger for ALICE

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: KARAVICHEVA, Tatiana (Russian Academy of Sciences (RU))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 44

Type: **not specified**

Measurement of the electroweak production of dijets in association with a Z boson with the ATLAS detector

Wednesday 5 March 2014 17:02 (20 minutes)

Presenter: GUTSCHOW, Christian (University College London (UK))

Session Classification: EW gauge bosons

Contribution ID: 45

Type: **not specified**

Measurements of the inclusive $\sigma(pp \rightarrow 4l)$ at the Z resonance with the ATLAS detector

Wednesday 5 March 2014 17:02 (1h 58m)

Presenter: LI, Bing (Univ. of Science & Tech. of China (CN))

Session Classification: EW gauge bosons

Contribution ID: 46

Type: **not specified**

Normalized differential cross-section measurements for top-quark pair production at ATLAS

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: BERNARD, Clare Sullivan (Boston University (US))

Session Classification: Top quark physics

Contribution ID: 47

Type: **not specified**

Top-quark charge asymmetry at 7 TeV with the ATLAS detector

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: RUBBO, Francesco (Universitat Autònoma de Barcelona (ES))

Session Classification: Top quark physics

Contribution ID: 48

Type: **not specified**

Spin correlations in top events at 7 TeV with the ATLAS experiment

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: LEMMER, Boris (Georg-August-Universitaet Goettingen (DE))

Session Classification: Top quark physics

Contribution ID: 49

Type: **not specified**

Measurements of the Higgs boson in the WW decay channel with the ATLAS detector

Wednesday 5 March 2014 17:07 (1h 53m)

Presenter: LONG, Jonathan (University of Michigan (US))

Session Classification: Higgs studies

Contribution ID: 50

Type: **not specified**

Determination of spin and parity of the Higgs boson in the WW decay channel at ATLAS

Wednesday 5 March 2014 17:07 (1h 53m)

Presenter: MATTMANN, Johannes (Johannes-Gutenberg-Universitaet Mainz (DE))

Session Classification: Higgs studies

Contribution ID: 51

Type: **not specified**

CP-mixing in the $H \rightarrow ZZ^* \rightarrow 4l$ channel with ATLAS

Wednesday 5 March 2014 17:07 (1h 53m)

Presenter: GUSTAVINO, Giuliano (Universita e INFN, Roma I (IT))

Session Classification: Higgs studies

Contribution ID: 52

Type: **not specified**

A general search for new phenomena with the ATLAS detector at $\sqrt{s} = 8$ TeV

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: AMOROSO, Simone (Albert-Ludwigs-Universitaet Freiburg (DE))

Session Classification: BSM searches

Contribution ID: 53

Type: **not specified**

Search for charginos, neutralinos and sleptons in 1 or 2 lepton final state events with ATLAS

Wednesday 5 March 2014 17:08 (1h 52m)

Presenters: DAVID, Claire Anne Sophie (University of Victoria (CA)); UENO, Ryuichi (Carleton University (CA))

Session Classification: BSM searches

Contribution ID: 54

Type: **not specified**

Search for electroweak SUSY production with 3-leptons at ATLAS

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: NAGAI, Ryo (Tokyo Institute of Technology (JP))

Session Classification: BSM searches

Contribution ID: 55

Type: **not specified**

Probes for magnetic monopoles with ATLAS and MoEDAL

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: KATRE, Akshay (Universite de Geneve (CH))

Session Classification: BSM searches

Contribution ID: 56

Type: **not specified**

Mixing and CP violation in the Bs system with ATLAS

Wednesday 5 March 2014 17:04 (1h 56m)

Presenter: JAKOUBEK, Tomas (Acad. of Sciences of the Czech Rep. (CZ))

Session Classification: Physics of heavy flavours

Contribution ID: 57

Type: **not specified**

Measurement of helicity amplitudes of the decay $\Lambda_{\text{b}} \rightarrow \text{J}/\psi + \Lambda$ in the ATLAS experiment

Wednesday 5 March 2014 17:04 (1h 56m)

Presenters: ZHANG, Dongliang (University of Michigan (US)); CHENG, Hok Chuen (University of Michigan (US))

Session Classification: Physics of heavy flavours

Contribution ID: 58

Type: **not specified**

ATLAS calorimeter performance in Run-1

Wednesday 5 March 2014 17:09 (1h 51m)

Presenters: BURGHGRAVE, Blake Oliver (Northern Illinois University (US)); TIOUCHICHINE, Elodie (CPPM / Aix Marseille University)

Session Classification: Physics performance, upgrades, etc

Contribution ID: 59

Type: **not specified**

Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: NINOMIYA, Yoichi (University of Tokyo (JP))

Session Classification: Physics performance, upgrades, etc

Contribution ID: **60**

Type: **not specified**

ATLAS offline beam spot in 2012

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: YU, David Ren-Hwa (Lawrence Berkeley National Lab. (US))

Session Classification: Physics performance, upgrades, etc

Contribution ID: **61**

Type: **not specified**

Electron performances in ATLAS

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: BENHAR NOCCIOLI, Eleonora (Universite de Geneve (CH))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 62

Type: **not specified**

Muon reconstruction efficiency, momentum scale and resolution in pp collisions at 8 TeV with the ATLAS detector

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: DIMITRIEVSKA, Aleksandra (University of Belgrade (RS))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 63

Type: **not specified**

Performance of tau reconstruction and identification for Run-1 in ATLAS

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: WINTER, Benedict Tobias (Universitaet Bonn (DE))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 64

Type: **not specified**

Missing transverse momentum in ATLAS: current and future performance

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: SCHRAMM, Steven Randolph (University of Toronto (CA))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 65

Type: **not specified**

Jet calibration, substructure techniques and preparation for the HL-LHC in ATLAS

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: DELITZSCH, Chris Malena (Universite de Geneve (CH))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 66

Type: **not specified**

B-tagging performance measurements with the ATLAS detector at $\sqrt{s} = 8$ TeV

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: ZHOU, Lei (Columbia University (US))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 67

Type: **not specified**

Measuring the ATLAS b-tagging performance using top events and a combinatorial likelihood approach

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: JOVICEVIC, Jelena (KTH Royal Institute of Technology (SE))

Session Classification: Physics performance, upgrades, etc

Contribution ID: **68**

Type: **not specified**

RF Optimization of the New TOTEM Roman Pot

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: MINAFRA, Nicola (Universita e INFN (IT))

Session Classification: Physics performance, upgrades, etc

Contribution ID: **69**

Type: **not specified**

TOTEM Trigger System

Wednesday 5 March 2014 17:09 (1h 51m)

Presenter: KOPAL, Josef (Acad. of Sciences of the Czech Rep. (CZ))

Session Classification: Physics performance, upgrades, etc

Contribution ID: 70

Type: **not specified**

First observation of single top production in the tW -channel in pp collisions at 8 TeV with the CMS experiment

Wednesday 5 March 2014 17:06 (1h 54m)

Presenter: NOONAN, Daniel (University of Kansas (US))

Session Classification: Top quark physics

Contribution ID: 71

Type: **not specified**

Search for vector-like quarks with charge $(-1/3 e)$ in final states with 3 or more leptons at CMS

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: CONTRERAS CAMPANA, Christian (Rutgers, State Univ. of New Jersey (US))

Session Classification: BSM searches

Contribution ID: 72

Type: **not specified**

Measurements of inclusive Z and Z plus D production at $\sqrt{s} = 7$ TeV at LHCb

Wednesday 5 March 2014 17:02 (1h 58m)

Presenter: WALLACE, Ronan James (University College Dublin (IE))

Session Classification: EW gauge bosons

Contribution ID: 73

Type: **not specified**

Results of the LHCf experiment in the p-Pb run

Wednesday 5 March 2014 17:03 (1h 57m)

Presenter: DEL PRETE, Marina (Unknown)

Session Classification: Heavy Ion Collisions

Contribution ID: 74

Type: **not specified**

Search for resonant Higgs-pair production in the bbbb final state with the ATLAS detector

Wednesday 5 March 2014 17:08 (1h 52m)

Presenter: FALLA, Rebecca Jane (University College London (UK))

Session Classification: BSM searches