

Curriculum Vitae

1. Personal data

Name, first name: De Lentdecker, Gilles
Gender: M
Date and place of birth: 23/10/1976, Uccle, Belgium
Nationality: Belgian
Professional address: Service de Physique des Particules Élémentaires
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2. Education

1998-2002	PhD at the Service de Physique des Particules Élémentaires, Université Libre de Bruxelles <i>Contribution to the study of the central tracking system of the CMS detector, at the future proton collider LHC, and to the elaboration of its online triggering system</i> Supervisor: Prof. C. Vander Velde
1997-1998	Master in Sciences Physiques Université Libre de Bruxelles Obtained with Great Distinction Mémoire: <i>Etude d'un détecteur à gaz à micro-pistes (MICROMEGAS) pour un trajectographe au LHC</i> Supervisor: Prof. C. Vander Velde

3. Research Career

- 2006-...:** Research Associate FRS-FNRS (Chercheur Qualifié)
- Research activities: -Search for new neutral gauge bosons decaying in e+e- pairs with the CMS detector.
- R&D on data acquisition systems based on new electronic standards for future experiments in particle physics.
- Responsibilities: - Since the 1st January 2013, coordinating the development of the trigger and data acquisition system for the forward muon spectrometer upgrade of the CMS experiment.
- Teaching: - Exercises (24h/year) and lab work (24h/year) of Physics for BA2 students in Biology, Geology and Geography (~80 students).
- Lab work in particle physics for BA3 and MA1 students in physics (2-3 weeks/year). I also created workshops on digital electronics for master students.
- Supervisor of training courses on digital electronics and data acquisition for master students in physics.
- Outreach: - Since 2008, organizing each year, two open days of the laboratory to promote Particle Physics among high school students ("master classes"). Around 35 students attend each class.
- Expert missions: - Referee for IEEE Transaction on Nuclear Science (2005, 2006).
- Chair of parallel sessions on development of micro pattern gaseous detectors of the IEEE conference.
- Administration: - Member of numerous committees of the ULB Physics Department.
- Since January 2009, ULB representative at the Belgian Physical Society board.
- Since January 2012, President of the Belgian Physical Society

- 2005-2006:** Postdoc at Université Libre de Bruxelles, Mandat de retour Belspo
- Research activities: - Search for new neutral gauge bosons decaying in e+e- pairs with the CMS detector.
- Responsibilities: - Construction of the Silicon tracker for the CMS experiment at the LHC.

2002-2005: Fellow Instructor (University of Rochester, USA), based at Fermilab, Illinois, USA.

Research activities: - Study of electron pair production at the Tevatron with the CDF detector

Responsibilities: - Coordinator of the online trigger group for the CDF collaboration, 2004 – 2005

Outreach: - Organizer of the Rochester Summer Student Lecture Program in 2004.

1998-2002: FRIA Fellow, PhD at the Université Libre de Bruxelles

Research activities: - R&D on micro-pattern gaseous detectors for a LHC tracker

- Study of the CMS online trigger system

4. Scientific achievements

Publications

My research activities led to more than 300 published papers, 20 communications at international meetings. The full list of publications is available at http://www.ihe.ac.be/~dldecker/Doc/cv_DeLentdecker.pdf

- In peer reviewed international journals: 367
- average number of citations (excluding self-citations): 48.4; h_{HEP} index: 65
- Internal notes: 44
- Talks presented at international conferences/workshops: 20 of which 10 invited talks
- Posters presented at international conferences: 10

The five most significant publications over the full career:

1° "Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s}=7$ TeV",
the CMS Collaboration,
JHEP 1105 (2011) 093

Between 2006 and 2011, my research activity was focused on the search for massive resonance decaying into e+e- pairs with the CMS experiment, at the LHC. The above paper, written by a collaboration of 20 physicists (the HEEP group), presents the full analysis performed with the first LHC data.

*2° "The CMS experiment at the CERN LHC",
the CMS Collaboration,
JINST 3 (2008) S08004*

I am working within the CMS Collaboration for more than 10 years, from the detector design and construction to the physics analysis. This paper describes in details the detector as well as the readout and data acquisition system.

*3° "Search for Z' --> e+ e- Using Dielectron Mass and Angular Distribution"
C.Ciobanu, G. De Lentdecker, J. Goldstein, S. Harper, T. Junk, J. Lee, K. McFarland, G.
Veramendi for the CDF Collaboration
Physical Review Letters 96 (2006) 211801*

From 2002 to 2005, a large part of my research activity was devoted to the study of the e+e- pair production at high mass, with the CDF detector at the Tevatron.

*4° "The Level-3 Trigger at the CDF Experiment at Tevatron Run II"
Y.S. Chung, G. De Lentdecker, S. Demers, B.Y. Han, B. Kilminster, J. Lee, K. McFarland,
A. Vaiciulis, F. Azfar, B. Huffman, T. Akimoto, H. Kobayashi, H. Matsunaga, M.
Shimojima, K. Tollefson, K. Torretta, D. Waters
IEEE Transactions on Nuclear Science 52 (2005) 1212-1216*

From 2004 to 2005, I coordinated the group responsible for the online trigger system of the CDF experiment. This paper presents the status of the system and the recent developments made by the group.

*5° "High rate behavior and discharge limits in micro-pattern detectors"
A. Bressan, M. Hoch, P. Pagano, L. Ropelewski, F. Sauli, S. Biagi, A. Buzulutskov, M.
Gruwe, G. De Lentdecker, D. Moermann, A. Sharma
Nuclear Instruments and Methods in Physics Research, A424, 1999, 321-342*

Since the beginning of my career I am interested in particle detectors and their instrumentation. This article is an important contribution to the understanding of the behaviour of micro-pattern gaseous detectors addressing the problem of discharge.

Research group and thesis supervision

Within the CMS experiment I am leading a group composed of 1 electronic engineer (ULB staff), 1 postdoc, 1 master student and 3 PhD students. The group is involved in the trigger and data acquisition system design and also in trigger and physics analysis studies. In addition I am also directing 2 PhD theses about the simulation and the measurement of the high-energy neutron dose in protontherapy centers. In the past I supervised 3 master theses. Among them two are doing their PhD at the ULB, the third one is assistant in the engineer department of the ULB.

Supervision of ongoing theses:

E. Verhagen: Development of the data acquisition system for the upgrade of the CMS forward muon spectrometer, PhD thesis, Sept. 2010 – Aug. 2014 (expected)

F. Zenoni: Study based on GEANT4 of triple-GEM detectors for the upgrade of the CMS forward muon spectrometer, PhD thesis, Jan. 2011 – Dec. 2015 (expected)

T. Maerschalk: Study based on GARFIELD of triple-GEM detectors for the upgrade of the CMS forward muon spectrometer, PhD thesis, Jan. 2012 – Dec. 2016 (expected)

V. De Smet: MCNPX-based simulations and measurement of the high-energy neutron dose in protontherapy centers, PhD thesis, Jun. 2012 – May. 2016 (expected)

D. Ndayizeye: GEANT4-based simulations and measurement of the high-energy neutron dose in protontherapy centers, PhD thesis, Oct. 2012 – Sept. 2016 (expected)

T. Lenzi: Development of trigger algorithms for the upgrade of the CMS forward muon spectrometer, Master thesis, Sept. 2012 – May 2013

Past theses:

G. Mullier: Etude de détecteurs Triple-GEM pour la mise à niveau du spectromètre à muons de l'expérience CMS pour les phases de haute luminosité du LHC, Master thesis, Sept. 2011 – Aug. 2012

T. Maerschalk: Etude d'un grand prototype de chambre à projection temporelle (TPC) et reconstruction de traces par filtre de Kalman, Master thesis, Sept. 2010 – May 2011

L. Thomas: Etude de la production de paires e^+e^- avec le détecteur CMS au LHC, Master thesis, Sept. 2019 – May 2010

Member of PhD thesis jury:

A. Marinov: Feasibility Study of a GEM Based Muon System for the CMS Detector at the Large Hadron Collider, Dec 2012, University of Ghent, Belgium

J. Maes: Estimation of the b-tag efficiency using top quarks at CMS, Nov. 2010, Vrije Universiteit Brussel, Belgium.

5. List of publications

5.1 Articles with international referees

A new boson with a mass of 125-GeV observed with the CMS experiment at the Large Hadron Collider

By CMS Collaboration (Chatrchyan et al.);
Science 338 (2012) 1569-1575

Measurement of associated production of vector bosons and top quark-antiquark pairs at $\sqrt{s} = 7 \text{ TeV}$

By CMS Collaboration (Chatrchyan et al.); CMS-TOP-12-014, CERN-PH-EP-2013-033
Phys.Rev.Lett. 110 (2013) 172002

Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV

By CMS Collaboration (Chatrchyan et al.); CMS-HIG-12-033, CERN-PH-EP-2012-375
Phys.Lett. B722 (2013) 207-232

Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC

By CMS Collaboration (Chatrchyan et al.); CMS-EXO-12-010, CERN-PH-EP-2013-010
Phys.Rev. D87 (2013) 072005

Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1112.5100; CMS-TOP-11-014, CERN-PH-EP-2011-217.
Phys.Lett. B709 (2012) 28-49

Exclusive photon-photon production of muon pairs in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1111.5536; CMS-FWD-10-005,CERN-PH-EP-2011-187.
JHEP 1201 (2012) 052, 35p.

J/psi and psi(2S) production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1111.1557; CMS-BPH-10-014,CERN-PH-EP-2011-177.
JHEP 1202 (2012) 011, 39p.

Measurement of the Production Cross Section for Pairs of Isolated Photons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1110.6461; CMS-QCD-10-035,CERN-PH-EP-2011-171.
JHEP 1201 (2012) 133, 38.

Measurement of the Rapidity and Transverse Momentum Distributions of Z Bosons in pp Collisions at $\sqrt{s}=7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1110.4973; CMS-EWK-10-010,CERN-PH-EP-2011-169.
Phys.Rev. D85 (2012) 032002, 21p.

Jet Production Rates in Association with W and Z Bosons in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1110.3226; CMS-EWK-10-012,CERN-PH-EP-2011-125.
JHEP 1201 (2012) 010, 46p.

Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC.

By CMS Collaboration (Chatrchyan et al.); arXiv:1110.2682; CMS-EWK-11-003,CERN-PH-EP-2011-159.
Phys.Rev. D84 (2011) 112002, 23p.

Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s}=0.9$ and 7 TeV.

By CMS Collaboration (Chatrchyan et al.); arXiv:1110.0211; CMS-FWD-10-011,CERN-PH-EP-2011-086.
JHEP 1111 (2011) 148, Erratum-ibid. 1202 (2012) 055, 37p.

Forward Energy Flow, Central Charged-Particle Multiplicities, and Pseudorapidity Gaps in W and Z Boson Events from pp Collisions at 7 TeV.

By CMS Collaboration (Chatrchyan et al.); arXiv:1110.0181; CMS-FWD-10-008,CERN-PH-EP-2011-141.
Eur.Phys.J. C72 (2012) 1839, 28p.

Search for a Vector-like Quark with Charge 2/3 in t + Z Events from pp Collisions at $\sqrt{s} = 7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1109.4985; CMS-EXO-11-005,CERN-PH-EP-2011-139.
Phys.Rev.Lett. 107 (2011) 271802, 25p.

Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy.

By CMS Collaboration (Chatrchyan et al.); arXiv:1109.2352;
Phys.Rev.Lett. 107 (2011) 221804, 27p.

Measurement of the $t \bar{t}$ Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification.

By CMS Collaboration (Chatrchyan et al.); arXiv:1108.3773; CMS-TOP-10-003, CERN-PH-EP-2011-085
Phys.Rev. D84 (2011) 092004, 24p.

Measurement of the Differential Cross Section for Isolated Prompt Photon Production in pp Collisions at 7 TeV.

By CMS Collaboration (Chatrchyan et al.); arXiv:1108.2044, CMS-QCD-10-037,CERN-PH-EP-2011-128.

Phys.Rev. D84 (2011) 052011, 29p

Measurement of the Drell-Yan Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV.

The CMS Collaboration

JHEP 1110 (2011) 007, 40p.

Search for $B(s)$ and B to dimuon decays in pp collisions at 7 TeV.

By CMS Collaboration (Chatrchyan et al.); arXiv:1107.5834; CMS-BPH-11-002,CERN-PH-EP-2011-120.

Phys.Rev.Lett. 107 (2011) 191802, 27p.

Search for Resonances in the Dijet Mass Spectrum from 7 TeV pp Collisions at CMS.

By CMS Collaboration (Chatrchyan et al.); arXiv:1107.4771; CMS-EXO-11-015,CERN-PH-EP-2011-119.

Phys.Lett. B704 (2011) 123-142

Measurement of the Inclusive W and Z Production Cross Sections in p p Collisions at $\sqrt{s} = 7$ TeV with the CMS experiment.

The CMS Collaboration

JHEP 1110 (2011) 132, 74p

Dependence on pseudorapidity and centrality of charged hadron production in PbPb collisions at a nucleon-nucleon centre-of-mass energy of 2.76 TeV.

The CMS Collaboration

JHEP 08 (2011) 141, 33p.

Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS.

The CMS Collaboration

JINST 6 (2011) P11002, 64p.

Search for Three-Jet Resonances in pp Collisions at $\sqrt{s} = 7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 107 (2011) 101801, 15p.

Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in events with a single lepton, jets, and missing transverse momentum.

By CMS Collaboration (Chatrchyan et al.); arXiv:1107.1870; CMS-SUS-10-006,CERN-PH-EP-2011-084.

JHEP 1108 (2011) 156, 43p.

A search for excited leptons in pp Collisions at $\sqrt{s} = 7$ TeV.

By CMS Collaboration (Chatrchyan et al.); arXiv:1107.1773; CMS-EXO-10-016,CERN-PH-EP-2011-081.

Phys.Lett. B704 (2011) 143-162

Measurement of the Underlying Event Activity at the LHC with $\sqrt{s}= 7$ TeV and Comparison with $\sqrt{s} = 0.9$ TeV.

By CMS Collaboration (Chatrchyan et al.); arXiv:1107.0330; CMS-JME-10-009,CERN-PH-EP-2011-051.
JINST 6 (2011) P09001, 56p.

Missing transverse energy performance of the CMS detector.

The CMS Collaboration
JINST 6 (2011) P09001, 54p.

Search for New Physics with a Mono-Jet and Missing Transverse Energy in pp Collisions at $\sqrt{s}=7\text{TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1106.4775; CMS-EXO-11-003,CERN-PH-EP-2011-070
Phys.Rev.Lett. 107 (2011) 201804, 15p.

Search for New Physics with Jets and Missing Transverse Momentum in pp collisions at $\text{sqrt}(s) = 7 \text{ TeV}$.

By CMS Collaboration (Chatrchyan et al.); arXiv:1106.4503; CMS-SUS-10-005,CERN-PH-EP-2011-065.
JHEP 1108 (2011) 155, 46p.

Measurement of the Strange B Meson Production Cross Section with J/Psi phi Decays in pp Collisions at $\text{sqrt}(s) = 7 \text{ TeV}$.

The CMS Collaboration
Phys.Rev. D84 (2011) 052008, 16p.

Search for Supersymmetry in Events with b Jets and Missing Transverse Momentum at the LHC.

The CMS Collaboration
JHEP 1107 (2011) 113, 25p.

Measurement of the t-channel single top quark production cross section in pp collisions at $\text{sqrt}(s) = 7 \text{ TeV}$.

The CMS Collaboration
Phys.Rev.Lett. 107 (2011) 091802, 15p.

Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics.

The CMS Collaboration
JHEP 1107 (2011) 098, 33p.

Search for Same-Sign Top-Quark Pair Production at $\text{sqrt}(s) = 7 \text{ TeV}$ and Limits on Flavour Changing Neutral Currents in the Top Sector.

The CMS Collaboration
JHEP 1108 (2011) 005, 27p.

Measurement of the Top-antitop Production Cross Section in pp Collisions at $\text{sqrt}(s)=7 \text{ TeV}$ using the Kinematic Properties of Events with Leptons and Jets.

By CMS Collaboration (Chatrchyan et al.); arXiv:1106.0902; CMS-TOP-10-002,CERN-PH-EP-2011-060.
Eur.Phys.J. C71 (2011) 1721, 27p.

Search for Physics Beyond the Standard Model Using Multilepton Signatures in pp Collisions at $\sqrt{s}=7$ TeV.
The CMS Collaboration
Physics Letters B 704 (2011) 411-433

Measurement of the Ratio of the 3-jet to 2-jet Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV.
The CMS Collaboration
Phys.Lett. B702 (2011) 336-354

Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV.
The CMS Collaboration
Phys.Rev.Lett. 107 (2011) 132001, 14p.

Measurement of the $t\bar{t}$ -bar production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV.
The CMS Collaboration
JHEP 1107 (2011) 049, 48p.

Search for First Generation Scalar Leptoquarks in the evjj channel in pp collisions at $\sqrt{s} = 7$ TeV.
By CMS Collaboration (Chatrchyan et al.); arXiv:1105.5237; CMS-EXO-10-006,CERN-PH-EP-2011-062.
Phys.Lett. B703 (2011) 246-266

Indications of suppression of excited Y states in PbPb collisions at $\sqrt{S_{NN}}= 2.76$ TeV.
The CMS Collaboration
Phys.Rev.Lett. 107 (2011) 052302, 15p.

Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV.
The CMS Collaboration
JHEP 1106 (2011) 093, 27p.

Measurement of W-gamma and Z-gamma production in pp collisions at $\sqrt{s} = 7$ TeV.
The CMS Collaboration
Phys. Lett. B701 (2011), 535-555

Long-range and short-range dihadron angular correlations in central PbPb collisions at a nucleon-nucleon center of mass energy of 2.76 TeV.
By CMS Collaboration (Chatrchyan et al.); arXiv:1105.2438; CMS-HIN-11-001,CERN-PH-EP-2011-056.
JHEP 1107 (2011) 076, 32p.

Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV.

The CMS Collaboration
JHEP 08 (2011) 086, 38p.

Measurement of the Polarization of W Bosons with Large Transverse Momenta in W+Jets Events at the LHC.

The CMS Collaboration
Phys. Rev. Lett. 107 (2011) 021802, 15 p.

Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC.

The CMS Collaboration
JHEP 1106 (2011) 077, 46 p.

Measurement of the B0 production cross section in pp Collisions at $\sqrt{s} = 7$ TeV.

The CMS Collaboration
Phys. Rev. Lett. 106, 252001 (2011), 15p.

Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration
Phys.Lett. B700 (2011) 187-206

Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration
JHEP 1108 (2011) 117, 31p.

Search for Neutral MSSM Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s}= 7$ TeV

The CMS Collaboration
Phys. Rev. Lett. 106 (2011) 231801, 15p.

Search for Large Extra Dimensions in the Diphoton Final State at the Large Hadron Collider.

The CMS Collaboration
JHEP 1105 (2011) 085, 27p.

Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s}= 7$ TeV.

The CMS Collaboration
JHEP 1104 (2011) 050, 30p.

Search for Physics Beyond the Standard Model in Opposite-Sign Dilepton Events at $\sqrt{s}=7$ TeV.

The CMS Collaboration

JHEP 1106 (2011) 026, 32p.

Search for Supersymmetry in pp Collisions at $\sqrt{s}=7\text{TeV}$ in Events with Two Photons and Missing Transverse Energy.

The CMS Collaboration

Phys. Rev. Lett. 106 (2011) 211802, 15 p.

Search for Resonances in the Dilepton Mass Distribution in pp Collisions at $\sqrt{s}=7\text{TeV}$.

The CMS Collaboration

JHEP 1105 (2011) 093, 34p.

Search for a W' boson decaying to a muon and a neutrino in pp collisions at $\sqrt{s}=7\text{TeV}$.

The CMS Collaboration

Phys.Lett. B701 (2011) 160-179

Measurement of W+W- Production and Search for the Higgs Boson in pp Collisions at $\text{sqrt}(s) = 7 \text{ TeV}$.

The CMS Collaboration

Phys.Lett. B699 (2011) 25-47

Study of Z boson production in PbPb collisions at nucleon-nucleon centre of mass energy = 2.76 TeV.

The CMS Collaboration

Phys. Rev. Lett. 106 (2011) 212301, 14p.

Search for a Heavy Bottom-like Quark in pp Collisions at $\sqrt{s}=7\text{TeV}$.

The CMS Collaboration

Phys.Lett. B701 (2011) 204-223

Strange Particle Production in pp Collisions at $\text{sqrt}(s) = 0.9$ and 7 TeV.

The CMS Collaboration

JHEP 1105 (2011) 064, 39p.

Measurement of B anti-B Angular Correlations based on Secondary Vertex Reconstruction at $\text{sqrt}(s)=7 \text{ TeV}$.

The CMS Collaboration

JHEP 1103 (2011) 136, 34p.

Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at $\text{sqrt}s=7\text{TeV}$.

The CMS Collaboration

Phys.Rev.Lett. 106 (2011) 201804, 15p.

Observation and studies of jet quenching in PbPb collisions at nucleon-nucleon center-of-mass energy = 2.76 TeV.

The CMS Collaboration

Phys.Rev. C84 (2011) 024906, 26p.

First Measurement of Hadronic Event Shapes in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Lett. B699 (2011) 48-67

Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 106 (2011) 122003, 15p.

Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

JHEP 1103 (2011) 090, 28p.

Measurement of Bose-Einstein Correlations in pp Collisions at $\sqrt{s}=0.9$ and 7 TeV.

The CMS Collaboration

JHEP 1105 (2011) 029, 28p.

Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse Energy.

The CMS Collaboration

Phys.Lett. B698 (2011) 196-218

Search for Heavy Stable Charged Particles in pp collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

JHEP 1103 (2011) 024, 28p.

Measurement of the B^+ Production Cross Section in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 106 (2011) 112001, 15p.

Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Lett. B698 (2011) 21-39

Upsilon production cross section in pp collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Rev. D83 (2011) 112004, 27p.

Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 106 (2011) 201802, 7p.

Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 106 (2011) 201803, 7p.

Search for Microscopic Black Hole Signatures at the Large Hadron Collider.

The CMS Collaboration

Phys.Lett. B697 (2011) 434-453

Measurements of Inclusive W and Z Cross Sections in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

JHEP 1101 (2011) 080, 39p.

Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 106 (2011) 082001

Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36$, and 7 TeV.

The CMS Collaboration

JHEP 1101 (2011) 079, 37p.

Search for Stopped Gluinos in pp collisions at $\sqrt{s} = 7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 106 (2011) 011801

Prompt and non-prompt J/psi production in pp collisions at $\sqrt{s} = 7$ TeV.

The CMS Collaboration

Eur.Phys.J. C71 (2011) 1575, 26p.

First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Lett. B695 (2011) 424-443

Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at $\sqrt{s}=7$ TeV.

The CMS Collaboration

Phys.Rev.Lett. 105 (2010) 262001, 7p.

Search for Dijet Resonances in 7 TeV pp Collisions at CMS.

The CMS Collaboration

Phys.Rev.Lett. 105 (2010) 211801, 7p.

Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC.

The CMS Collaboration

JHEP 1009 (2010) 091

CMS Tracking Performance Results from early LHC Operation.

The CMS Collaboration

Eur.Phys.J. C70 (2010) 1165-1192

First Measurement of the Underlying Event Activity at the LHC with $\sqrt{s} = 0.9$ TeV.

The CMS Collaboration

Eur.Phys.J. C70 (2010) 555-572

Measurement of the charge ratio of atmospheric muons with the CMS detector

The CMS Collaboration

Phys.Lett.B692, 83-104, 2010.

Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 7$ TeV

The CMS Collaboration

Phys.Rev.Lett.105, 022002, 2010, 7 p.

First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s}=0.9$ and 2.36 TeV at the LHC

The CMS Collaboration

Phys.Rev.Lett.105, 032001, 2010, 7 p.

Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV

The CMS Collaboration

JHEP 1002:041,2010

Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons

The CMS Collaboration

JINST 5 T03007, 2010, 37p.

Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons

The CMS Collaboration

JINST 5 T03002, 2010, 50 p.

Measurement of the Muon Stopping Power in Lead Tungstate

The CMS Collaboration

JINST 5 P03007, 2010, 31 p.

Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons

The CMS Collaboration

JINST 5 T03008, 2010, 45 p.

Performance of CMS Muon Reconstruction in Cosmic-Ray Events

The CMS Collaboration

JINST 5 T03022, 2010, 47p

Performance of the CMS Cathode Strip Chambers with Cosmic Rays

The CMS Collaboration
JINST 5 T03018, 2010, 39 p

Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data

The CMS Collaboration
JINST 5 T03012, 2010, 35 p.

Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays

The CMS Collaboration
JINST 5 T03004, 2010, 33 p.

Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays

The CMS Collaboration
JINST 5 T03016, 2010, 37 p.

Performance of the CMS Drift-Tube Local Trigger with Cosmic Rays

The CMS Collaboration
JINST 5 T03003, 2010, 31 p.

Commissioning of the CMS High-Level Trigger with Cosmic Rays

The CMS Collaboration
JINST 5 T03005, 2010, 31 p.

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