Curriculum Vitae

Permanent Address: 922, Ghaffar Kiani road, Mughalabad, Rawalpindi,

Pakistan.

Email: taimoor.khurshid@cern.ch taimoor.khurshid@iiu.edu.pk



Father's Name Muhammad Khurshid. N.I.C # 37405-2384507-7. Date of Birth 28 February, 1978.

Marital Status Married.
Domicile Punjab.
Religion Islam.



Education		Year of	<u> </u>	
	<u>Exam</u>	Passing	Board/University	<u>Div</u>
	Ph.D (Exp. High Energy Physics)	2015	Quaid-i-Azam University, Islamabad.	Completed
	M.Phil (Exp. High Energy Physics)	2006	Quaid-i-Azam University, Islamabad.	1 st
	M.Sc. (Physics)	2003	Quaid-i-Azam University, Islamabad.	1 st
Courses Studied Advance Quantum Mechanics Quantum Field Theory I - II Plasma Physics I - II Electrodynamics				
	Methods of Math Physics Material Science M.Sc			
	Methods of Math Physics Classical Mechanics Physical Electronics Electrodynamics Quantum Mechanics Nuclear Physics Atomic & Molecular Physics Solid State Physics Statistical Mechanics Circuit Electronics			
M. Phil Dissertation	Research Field "Exp. High Energy Physics." Title "Semi-leptonic decays of top-antitop quark pairs at LHC" Supervisor "Dr. Hafeez R. Hoorani, Director Research, National Center for physics, Quaid-i-Azam University(Campus), Islamabad."			
Research Experience	In Ph.D I remained actively involved in the Commissioning of CMS Endcap RPCs, which are now fully operational (At CERN Switzerland). I also worked on the Detector Control System for Endcap RPCs of the CMS experiment, during my stay at CERN. For this PVSS is used to connect to hardware (or software) devices, acquire the data they produce and use it for their supervision, i.e. to monitor their behavior and to initialize, configure and operate them. In addition measurement of Top Quark pair production Cross Section have been performed using CMS data at 8 TeV center-of-mass energy.			
		four detectors	pated in the testing of Resistive Plass of LHC being built at CERN.) a us, Islamabad, Pakistan.	
Computer Skills	FORTRAN, C++, Python(be	ginner level),	PVSS, Linux (operating system),	Microsoft Office.

	5th School on LHC Physics (Invited Speaker)
Conferences	Organized by NCP and ICTP(15 - 26 August, 2016)
Arranged /	• ICTP-NCP School on LHC Physics
Attended	Organized by NCP and ICTP (17th – 28th September 2014)
Attenueu	• 37th International Nathiagali Summer College on Physics and Contemporary
	Needs.
	Organized by PAEC and NCP. (2012).
	Third School on LHC Physics
	Organized by NCP and ICTP (8th – 19th November 2012)
	Second School on LHC Physics, One of the NCP (A. 1125th M. 124th 2011)
	Organized by NCP, (April 25th – May 04th 2011)
	35th International Nathiagali Summer College on Physics and Contemporary
	Needs.
	Organized by PAEC and NCP. (2010).
	• International Scientific Spring - 2010
	Organized by NCP. (Mar 01-Mar 06, 2010).
	 First School on LHC Physics,
	Organized by NCP (12-30 October 2009)
	Signaling the Arrival of the LHC Era
	Organized by ICTP in ICTP Trieste, Italy.
	(8-13 December 2008).
	 3rd Workshop on Particle Physics.
	Organized jointly by NCP and CERN (Geneva) at Quaid-i-Azam University, Islamabad.
	(March 8-13, 2004).
	Workshop on Physics at LHC.
	Organized by NCP at Quaid-i-Azam University, Islamabad. (December 16, 2004).
	• Workshop on soft X-ray beam line for sesame
	Organized by National Centre for Physics, Quaid-i-Azam University Islamabad. (April
	26-27, 2005)
	30th International Nathiagali Summer College on Physics and Contemporary
	Needs.
	Organized by PAEC and NCP. (June 27-July 2, 2005).
	• 4 th International Workshop on Particle Physics.
	Organized by National Center for Physics, Quaid-i-Azam University Islamabad (Nov.
	14-19, 2005).
	• 12 th Regional Conference on Mathematical Physics.
	Organized jointly by ICTP(Italy), HEC(Islamabad) and NCP at Quaid-i-Azam
	University, Islamabad. (March 27-April 1, 2006).
	• 5 th International Workshop on Particle Physics.
	Organized by National Center for Physics, Quaid-i-Azam University Islamabad (Nov.
	20-25, 2006).
	 International Symposium on Contemporary Physics.
	Organized by National Center for Physics, Quaid-i-Azam University Islamabad(26-30
	March, 2007).
	Watch, 2007).
	One year Diploma in Computer Sciences (DCS) from National Institute of Computer
Other	Sciences, Saddar, Rawalpindi, Pakistan.
Qualifications	 A course on Linux Administration from National Center for Physics.
Quamicauons	
	Joint PVSS and JCOP Framework Course Finite State Machines in the JCOP Framework
	Finite State Machines in the JCOP Framework PGS 1 GMS F. In PDS 1 MS 2 M
Dools Dublished	DCS for CMS Endcap RPCs and X-Section Measurement of Dilep Top Quarks 16DN 070-2-650-00052-0
Book Published	ISBN 978-3-659-83952-8
	Scholar's Press

	1 O I' A THE COMMENT DOG (CMM NOTE AND 1920)
Publications	1 Quality Assurance Tests of CMS Endcap RPCs (CMS NOTE-2008/030).
Publications	2 Data Acquisition System for RPC Testing (CMS NOTE-2008/031).
	3 Resistive Plate Chambers performance with Cosmic Rays in the CMS experiment [CMS
	Conference Report](CR2009_196)
	4 Resistive Plate Chambers performance with Cosmic Rays in the CMS
	experiment [CMS Conference Report](CR2009_196)
	5 The commissioning and the first operational experiences of the CMS RPC
	detector control system at LHC (Nuclear Instruments and Methods in
	Physics Research A)
	6 The detector control systems for the CMS Resistive Plate Chamber (IOP
	``
	Science)
	7 List attached for rest of the articles
Teaching	• International Islamic University, Islamabad (Assistant Professor IPFP)
Experience	3 Feb 2016 – Till Date
	Federal Urdu University, Islamabad (Visiting Assistant Professor)
	14 Mar 2015 – 2 Feb 2016
	International Islamic University, Islamabad (Visiting Assistant Professor)
	Courses: Quantum Mechanics-I and II Nuclear Physics Fall 2011, Spring and Fall 2012
	Federal Urdu University, Islamabad (Visiting Lecturer)
	Courses: Quantum Mechanics-I and II Nuclear Physics Spring and Fall 2011
	College of Information Technology, Saddar, Rawalpindi. (Visiting Faculty)
	June 2004 – July 2007.
7.0	Prof. Dr. Hafeez R. Hoorani(S.I)
References	Director General,
	National Center for Physics,
	Shahdara Valley road, Bharakao, Islamabad.
	Email: hafeez.hoorani@cern.ch
	Prof. Dr. Khalid Khan
	Chairman,
	Dept. of Physics,
	Quaid-i-Azam University, Islamabad.
	Email: kk@gau.edu.pk

	Dr. Taimoor Khurs	shid		
S.No.	Title	Journal	Year	I.F
1	CMS tracking performance results from early LHC operation	European Physical Journal C	2010	3.248
	First measurement of the underlying event activity at the LHC with			
2	root s=0.9 TeV	European Physical Journal C	2010	3.248
	Observation of long-range, near-side angular correlations in	Journal Of High Energy		
3	proton-proton collisions at the LHC	Physics	2010	6.049
	Transverse-momentum and pseudorapidity distributions of	Journal Of High Energy		
4	charged hadrons in pp collisions at root s=0.9 and 2.36 TeV	Physics	2010	6.049
_	Aligning the CMS muon chambers with the muon alignment system		2040	0.440
5	during an extended cosmic ray run	Journal Of Instrumentation	2010	3.148
c	Alignment of the CMS muon system with cosmic-ray and beamhalo muons	Journal Of Instrumentation	2010	2 1 4 0
6	Alignment of the CMS silicon tracker during commissioning with	Journal Of Instrumentation	2010	3.148
7	cosmic rays	Journal Of Instrumentation	2010	3.148
	Calibration of the CMS drift tube chambers and measurement of	Journal Of Histrumentation	2010	3.140
8	the drift velocity with cosmic rays	Journal Of Instrumentation	2010	3.148
9	CMS data processing workflows during an extended cosmic ray run	Journal Of Instrumentation	2010	3.148
	Commissioning and Performance of the CMS Pixel Tracker with	30amar of macramentation	2010	3.110
10	Cosmic Ray Muons	Journal Of Instrumentation	2010	3.148
	Commissioning and performance of the CMS silicon strip tracker	JOURNAL OF		0.2.0
11	with cosmic ray muons	INSTRUMENTATION	2010	3.148
	Commissioning of the CMS experiment and the cosmic run at four			
12	tesla	Journal Of Instrumentation	2010	3.148
13	Commissioning of the CMS High-Level Trigger with cosmic rays	Journal Of Instrumentation	2010	3.148
	Fine synchronization of the CMS muon drift-tube local trigger using			
14	cosmic rays	Journal Of Instrumentation	2010	3.148
	Identification and filtering of uncharacteristic noise in the CMS			
15	hadron calorimeter	Journal Of Instrumentation	2010	3.148
16	Measurement of the muon stopping power in lead tungstate	Journal Of Instrumentation	2010	3.148
	Performance and operation of the CMS electromagnetic			
17	calorimeter	Journal Of Instrumentation	2010	3.148
	Performance of CMS hadron calorimeter timing and			
18	synchronization using test beam, cosmic ray, and LHC beam data	Journal Of Instrumentation	2010	3.148
19	Performance of CMS muon reconstruction in cosmic-ray events	Journal Of Instrumentation	2010	3.148
20	Performance of the CMS cathode strip chambers with cosmic rays	Journal Of Instrumentation	2010	3.148
21	Performance of the CMS drift tube chambers with cosmic rays	Journal Of Instrumentation	2010	3.148
	Performance of the CMS drift-tube chamber local trigger with			
22	cosmic rays	Journal Of Instrumentation	2010	3.148
22	Performance of the CMS hadron calorimeter with cosmic ray	La contrata de la contrata del contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata del contrata del contrata de la contrata de la contra	2040	2.440
23	muons and LHC beam data	Journal Of Instrumentation	2010	3.148
24	Performance of the CMS Level-1 trigger during commissioning with	Journal Of Instrumentation	2010	2 4 4 0
24	cosmic ray muons and LHC beams Performance study of the CMS barrel resistive plate chambers with	Journal Of Instrumentation	2010	3.148
25	cosmic rays	Journal Of Instrumentation	2010	3.148
23	Precise mapping of the magnetic field in the CMS barrel yoke using	Journal Of Histrumentation	2010	3.140
26	cosmic rays	Journal Of Instrumentation	2010	3.148
	Time reconstruction and performance of the CMS electromagnetic	Journal of modulinemation	2010	3.170
27	calorimeter	Journal Of Instrumentation	2010	3.148
	Resistive Plate Chambers performance with Cosmic Rays in the	Nuclear Instruments & Methods In Physics		2.2.0
28	CMS experiment	Research Section A-Accelerators Spectrometers Detectors And Associated Equipment	2010	1.142
	First Measurement of Bose-Einstein Correlations in Proton-Proton			
29	Collisions at root s=0.9 and 2.36 TeV at the LHC	Physical Review Letters	2010	7.622
30	Search for Dijet Resonances in 7 TeV pp Collisions at CMS	Physical Review Letters	2010	7.622
	Search for Quark Compositeness with the Dijet Centrality Ratio in			
31	pp Collisions at root s=7 TeV	Physical Review Letters	2010	7.622
	Transverse-Momentum and Pseudorapidity Distributions of			
32	Charged Hadrons in pp Collisions at root s=7 TeV	Physical Review Letters	2010	7.622
	Measurement of the charge ratio of atmospheric muons with the			
33	CMS detector	Physics Letters B	2010	5.255
	Measurement of the t(t)over-bar production cross section in pp			
	collisions at root s=7 TeV using the kinematic properties of events		204:	2.52:
34	with leptons and jets	European Physical Journal C	2011	3.631
35	Prompt and non-prompt J/psi production in pp collisions at root	European Physical Journal C	2011	3.631

	s=7 TeV			
36	Thoracic Epidural Anaesthesia for Open Cholecystectomy	Jcpsp-Journal Of The College Of Physicians And Surgeons Pakistan	2011	0.342
37	Charged particle multiplicities in pp interactions at root s=0:9, 2:36, and 7 TeV	Journal Of High Energy Physics	2011	5.831
38	Charged particle transverse momentum spectra in pp collisions at root s=0.9 and 7 TeV	Journal Of High Energy Physics	2011	5.831
	Dependence on pseudorapidity and on centrality of charged	Journal Of High Energy		
39	hadron production in PbPb collisions at root s(NN)=2.76 TeV	Physics	2011	5.831
40	Inclusive b-hadron production cross section with muons in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
41	Long-range and short-range dihadron angular correlations in central PbPb collisions at root s(NN)=2.76 TeV	Journal Of High Energy Physics	2011	5.831
42	Measurement of B(B)over-bar angular correlations based on secondary vertex reconstruction at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
43	Measurement of Bose-Einstein correlations in pp collisions at root s=0.9 and 7 TeV	Journal Of High Energy Physics	2011	5.831
44	Measurement of energy flow at large pseudorapidities in pp collisions at root s=0.9 and 7 TeV	Journal Of High Energy Physics	2011	5.831
45	Measurement of the Drell-Yan cross section in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
46	Measurement of the inclusive W and Z production cross sections in pp collisions at root s = 7 TeV with the CMS experiment	Journal Of High Energy Physics	2011	5.831
47	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
48	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at root s=7TeV	Journal Of High Energy Physics	2011	5.831
	Measurement of the t(t)over-bar production cross section and the			
49	top quark mass in the dilepton channel in pp collisions at root s=7 $$ Tev	Journal Of High Energy Physics	2011	5.831
50	Measurement of the underlying event activity at the LHC with root s=7 TeV and comparison with root s=0.9 TeV $$	Journal Of High Energy Physics	2011	5.831
51	Measurements of inclusive W and Z cross sections in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
52	Search for heavy stable charged particles in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
53	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider	Journal Of High Energy Physics	2011	5.831
54	Search for light resonances decaying into pairs of muons as a signal of new physics	Journal Of High Energy Physics	2011	5.831
	Search for new physics with jets and missing transverse	Journal Of High Energy		
55	momentum in pp collisions at root s=7 TeV	Physics	2011	5.831
56	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC	Journal Of High Energy Physics	2011	5.831
57	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
58	Search for resonances in the dilepton mass distribution in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
59	Search for same-sign top-quark pair production at root s=7 TeV and limits on flavour changing neutral currents in the top sector	Journal Of High Energy Physics	2011	5.831
60	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2011	5.831
61	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC	Journal Of High Energy Physics	2011	5.831
62	Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum	Journal Of High Energy Physics	2011	5.831
63	Strange particle production in pp collisions at root s=0.9 and 7 TeV	Journal Of High Energy Physics	2011	5.831
64	Determination of jet energy calibration and transverse momentum resolution in CMS	Journal Of Instrumentation	2011	1.869
65	Missing transverse energy performance of the CMS detector	Journal Of Instrumentation	2011	1.869
66	Observation and studies of jet quenching in PbPb collisions at root s(NN)=2.76 TeV	Physical Review C	2011	3.308
67	Measurement of the B-s(0) Production Cross Section with B-s(0) -> J/psi phi Decays in pp Collisions at root s=7 TeV	Physical Review D	2011	4.558

	Measurement of the differential cross section for isolated prompt			
68	photon production in pp collisions at 7 TeV	Physical Review D	2011	4.558
	Measurement of the t(t)over-bar production cross section in pp	,		
	collisions at 7 TeV in lepton plus jets events using b-quark jet			
69	identification	Physical Review D	2011	4.558
	Measurement of the weak mixing angle with the Drell-Yan process			
70	in proton-proton collisions at the LHC	Physical Review D	2011	4.558
71	Upsilon production cross section in pp collisions at root s=7 TeV	Physical Review D	2011	4.558
72	Dijet Azimuthal Decorrelations in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
	Indications of Suppression of Excited Upsilon States in Pb-Pb			
73	Collisions at root(NN)-N-s=2.76 TeV	Physical Review Letters	2011	7.37
	Measurement of Dijet Angular Distributions and Search for Quark			
74	Compositeness in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
	Measurement of the B+ Production Cross Section in pp Collisions at			
75	root s=7 TeV	Physical Review Letters	2011	7.37
	Measurement of the B-O Production Cross Section in pp Collisions			
76	at root s=7 TeV	Physical Review Letters	2011	7.37
	Measurement of the Inclusive Jet Cross Section in pp Collisions at			
77	root s=7 TeV	Physical Review Letters	2011	7.37
	Measurement of the Isolated Prompt Photon Production Cross			
78	Section in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
	Measurement of the Polarization of W Bosons with Large			
79	Transverse Momenta in W plus jets Events at the LHC	Physical Review Letters	2011	7.37
	Measurement of the t-Channel Single Top Quark Production Cross		2011	
80	Section in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
	Search for a Vectorlike Quark with Charge 2/3 in t plus Z Events		2011	
81	from pp Collisions at root s 7 TeV	Physical Review Letters	2011	7.37
03	Search for B-s(0) -> mu(+)mu(-) and B-0 -> mu(+)mu(-) Decays in pp	Dhusiaal Basiass Lattana	2011	7 27
82	Collisions at root s=7 TeV Search for Neutral Minimal Supersymmetric Standard Model Higgs	Physical Review Letters	2011	7.37
83	, ,	Dhysical Davious Latters	2011	7 27
83	Bosons Decaying to Tau Pairs in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
84	Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
04	Search for Pair Production of First-Generation Scalar Leptoquarks	Filysical Review Letters	2011	7.57
85	in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
0.5	Search for Pair Production of Second-Generation Scalar	r nysical neview Letters	2011	7.57
86	Leptoquarks in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
87	Search for Stopped Gluinos in pp Collisions at root s=7 TeV	Physical Review Letters	2011	7.37
07	Search for Supersymmetry at the LHC in Events with Jets and	r nysical neview Letters	2011	7.57
88	Missing Transverse Energy	Physical Review Letters	2011	7.37
00	Search for Supersymmetry in pp Collisions at root s=7 TeV in	Thysical Review Letters	2011	7.57
89	Events with Two Photons and Missing Transverse Energy	Physical Review Letters	2011	7.37
03	Study of Z Boson Production in PbPb Collisions at root s(NN)=2.76	Thysical Review Letters	2011	7.57
90	TeV	Physical Review Letters	2011	7.37
91	A search for excited leptons in pp collisions at root s=7 TeV	Physics Letters B	2011	3.955
	First measurement of hadronic event shapes in pp collisions at root	,		
92	s=7 TeV	Physics Letters B	2011	3.955
	Measurement of the differential dijet production cross section in	,		
93	proton-proton collisions at root s=7 TeV	Physics Letters B	2011	3.955
	Measurement of the ratio of the 3-jet to 2-jet cross sections in pp	,		
94	collisions at root s=7 TeV	Physics Letters B	2011	3.955
	Measurement of W gamma and Z gamma production in pp	,		
95	collisions at root s=7 TeV	Physics Letters B	2011	3.955
	Measurement of W+W- production and search for the Higgs boson	,		
96	in pp collisions at root s=7 TeV	Physics Letters B	2011	3.955
	Search for a heavy bottom-like quark in pp collisions at root s=7			
97	TeV	Physics Letters B	2011	3.955
	Search for a heavy gauge boson W ' in the final state with an	-		
	electron and large missing transverse energy in pp collisions at root			
98	s=7 TeV	Physics Letters B	2011	3.955
	Search for a W ' boson decaying to a muon and a neutrino in pp			
99	collisions at root s=7 TeV	Physics Letters B	2011	3.955
	Search for first generation scalar leptoquarks in the e nu jj channel			
100	in pp collisions at root s=7 TeV	Physics Letters B	2011	3.955

Search for physics beyond the standard model using multilepton logarithese in parcellions at root 1-7 reV logarithms of the standard model using multilepton logarithms in parcellions at root 1-7 reV logarithms of the standard model using multilepton logarithms in parcellions at root 1-7 reV logarithms of the standard model using multilepton at root logarithms of the standard model using multilepton at root logarithms of the standard model using multilepton at root standard to the standard model using multilepton at root standard model using multilepton during		Search for microscopic black hole signatures at the Large Hadron	T	1	
20 signatures in pc collisions at root s-7 TeV 21 signatures in pc collisions at root s-7 TeV 22 search for resonances in the dijet mass spectrum from 7 TeV pp 23 collisions at CMS 24 collisions at CMS 25 TeV 25 search for a supersymmetry in pc collisions at 7 TeV in events with 25 search for a doubly-charged Higgs boson in pp collisions at root 25 TeV 26 centrality dependence of dihadron correlations and azimuthal 26 anisotropy harmonics in Phyb collisions at root st SNN=2 75 TeV 26 centrality dependence of dihadron correlations and azimuthal 26 anisotropy harmonics in Phyb collisions at root st SNN=2 75 TeV 27 centrality dependence of dihadron correlations and azimuthal 27 cort s=7 TeV 28 designation and state of control of the 28 designation at root s=7 TeV 39 dilepton final states in pc collisions at root sent from pc collisions at root sent sent in the Drell Yan process in 28 protons in pc collisions at root sent the Drell Yan process in 29 protons final states in pc collisions at root sent the Drell Yan process in 20 protons final states in pc collisions at root sent sent sent sent sent sent sent sen	101		Physics Latters R	2011	3 055
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Search for supersymetry in px collisions at 7 TeV in events with lot jets and missing transverse energy of the px collisions at root space in px col	103		Physics Letters B	2011	3.955
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120 jet in pp collisions at root s=7 TeV Physics 2012 5.618		•	Journal Of High Energy		
121 quarks Physics 2012 5.618 Measurement of the production cross section for pairs of isolated photons in pp collisions at root s=7 TeV Physics 2012 5.618 Measurement of the single-top-quark t-channel cross section in pp collisions at root s=7 TeV Physics 2012 5.618 123 collisions at root s=7 TeV Physics 2012 5.618 124 dilepton channel in pp collisions at root s=7 TeV Physics 2012 5.618 125 lepton plus jets final states in pp collisions at root s=7 TeV Physics 2012 5.618 126 Measurement of the underlying event activity in pp collisions at root s=0 9 and 7 TeV with the novel jet-area/median approach Physics 2012 5.618 Measurement of the Z/gamma* plus b-jet cross section in pp Journal Of High Energy Physics 2012 5.618 Measurement of the Z/gamma* plus b-jet cross section in pp Journal Of High Energy Physics 2012 5.618 Observation of Z decays to four leptons with the CMS detector at the LHC Physics 2012 5.618 Search for a fermiophobic Higgs boson in pp collisions at root s=7 Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618	120			2012	5.618
Measurement of the production cross section for pairs of isolated photons in pp collisions at root s=7 TeV Measurement of the single-top-quark t-channel cross section in pp collisions at root s=7 TeV Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=7 TeV Measurement of the top-quark mass in t(t)over-bar events with lepton plus jets final states in pp collisions at root s=7 TeV Measurement of the underlying event activity in pp collisions at root s=0 9 and 7 TeV with the novel jet-area/median approach Measurement of the Z/gamma* plus b-jet cross section in pp collisions at root s=7 TeV Observation of Z decays to four leptons with the CMS detector at the LHC Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV Search for a Higgs boson in the decay channel H -> ZZ((*)) -> physics Journal Of High Energy Physics 2012 5.618		Measurement of the mass difference between top and antitop	Journal Of High Energy		
122 photons in pp collisions at root s=7 TeV Physics 2012 5.618	121	quarks	Physics	2012	5.618
Measurement of the single-top-quark t-channel cross section in pp 123 collisions at root s=7 TeV Measurement of the t(t)over-bar production cross section in the 124 dilepton channel in pp collisions at root s=7 TeV Measurement of the top-quark mass in t(t)over-bar events with 125 lepton plus jets final states in pp collisions at root s=7 TeV Measurement of the underlying event activity in pp collisions at root s=0 9 and 7 TeV with the novel jet-area/median approach Measurement of the Z/gamma* plus b-jet cross section in pp 127 collisions at root s=7 TeV Measurement of Z decays to four leptons with the CMS detector at 128 the LHC Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV Search for a Higgs boson in the decay channel H -> ZZ((*)) -> 130 q(q)over-barl(-)I(+) in pp collisions at root s=7 TeV Physics 120 Journal Of High Energy Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618		Measurement of the production cross section for pairs of isolated	Journal Of High Energy		
123 collisions at root s=7 TeV Physics 2012 5.618 Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=7 TeV Physics 2012 5.618 Measurement of the top-quark mass in t(t)over-bar events with lepton plus jets final states in pp collisions at root s=7 TeV Physics 2012 5.618 Measurement of the underlying event activity in pp collisions at root s=0 9 and 7 TeV with the novel jet-area/median approach Physics 2012 5.618 Measurement of the Z/gamma* plus b-jet cross section in pp Journal Of High Energy Physics 2012 5.618 Measurement of the Z/gamma* plus b-jet cross section in pp Journal Of High Energy Physics 2012 5.618 Observation of Z decays to four leptons with the CMS detector at 128 the LHC Physics 2012 5.618 Search for a fermiophobic Higgs boson in pp collisions at root s=7 Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618	122	·		2012	5.618
Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=7 TeV Measurement of the top-quark mass in t(t)over-bar events with lepton plus jets final states in pp collisions at root s=7 TeV Measurement of the underlying event activity in pp collisions at root s=0 9 and 7 TeV with the novel jet-area/median approach Measurement of the Z/gamma* plus b-jet cross section in pp 127 collisions at root s=7 TeV Measurement of the Z/gamma* plus b-jet cross section in pp 128 decays to four leptons with the CMS detector at the LHC Search for a fermiophobic Higgs boson in pp collisions at root s=7 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618			0 0,	_	
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126 root s=0 9 and 7 TeV with the novel jet-area/median approach Measurement of the Z/gamma* plus b-jet cross section in pp 127 collisions at root s=7 TeV Observation of Z decays to four leptons with the CMS detector at the LHC Search for a fermiophobic Higgs boson in pp collisions at root s=7 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Search for a Higgs boson in the decay channel H -> ZZ((*)) -> q(q)over-barl(-)l(+) in pp collisions at root s=7 TeV Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618	125			2012	2.018
Measurement of the Z/gamma* plus b-jet cross section in pp 127 collisions at root s=7 TeV Observation of Z decays to four leptons with the CMS detector at the LHC Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV Dournal Of High Energy Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618	126		0 0,	2012	5 612
127 collisions at root s=7 TeV Physics 2012 5.618 Observation of Z decays to four leptons with the CMS detector at the LHC Physics 2012 5.618 Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618	120		-	2012	5.010
Observation of Z decays to four leptons with the CMS detector at the LHC Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618 Journal Of High Energy Physics 2012 5.618	127		0 0,	2012	5.618
the LHC Physics 2012 5.618 Search for a fermiophobic Higgs boson in pp collisions at root s=7 Journal Of High Energy Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy q(q)over-barl(-)l(+) in pp collisions at root s=7 TeV Physics 2012 5.618			•		2.020
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129 TeV Physics 2012 5.618 Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618					
Search for a Higgs boson in the decay channel H -> ZZ((*)) -> Journal Of High Energy Physics 2012 5.618	129	. 99		2012	5.618
		Search for a Higgs boson in the decay channel H -> ZZ((*)) ->	Journal Of High Energy		
131 Search for a light charged Higgs boson in top quark decays in pp Journal Of High Energy 2012 5.618	130		Physics	2012	5.618
	131	Search for a light charged Higgs boson in top quark decays in pp	Journal Of High Energy	2012	5.618

	collisions at root s=7 TeV	Physics		
	Search for anomalous production of multilepton events in pp	Journal Of High Energy		
132	collisions at root s=7 TeV	Physics	2012	5.618
	Search for anomalous t(t)over-bar production in the highly-	Journal Of High Energy		
133	boosted all-hadronic final state	Physics	2012	5.618
124	Consider the D. C.(O) is small about a small	Journal Of High Energy	2012	F C10
134	Search for B-S(0) -> mu(+)mu(-) and B-0 -> mu(+)mu(-) decays Search for dark matter and large extra dimensions in monojet	Physics Journal Of High Energy	2012	5.618
135	events in pp collisions at root s=7 TeV	Physics	2012	5.618
133	Search for electroweak production of charginos and neutralinos	Journal Of High Energy	2012	3.010
136	using leptonic final states in pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for exclusive or semi-exclusive gamma gamma production	,		
	and observation of exclusive and semi-exclusive e(+)e(-)	Journal Of High Energy		
137	production in pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for heavy bottom-like quarks in 4.9 fb(-1) of pp collisions at	Journal Of High Energy		
138	root s=7 TeV	Physics	2012	5.618
420	Search for leptonic decays of W ' bosons in pp collisions at root	Journal Of High Energy	2042	F C40
139	s=7TeV	Physics	2012	5.618
140	Search for microscopic black holes in an collicions at root s=7 To\/	Journal Of High Energy Physics	2012	5.618
140	Search for microscopic black holes in pp collisions at root s=7 TeV Search for new physics in events with same-sign dileptons and b-	Journal Of High Energy	2012	3.016
141	tagged jets in pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for new physics with long-lived particles decaying to	Journal Of High Energy	2012	5.010
142	photons and missing energy in pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for quark compositeness in dijet angular distributions from	Journal Of High Energy		
143	pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for resonant t(t)over-bar production in lepton plus jets	Journal Of High Energy		
144	events in pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for stopped long-lived particles produced in pp collisions at	Journal Of High Energy		
145	root s=7 TeV	Physics	2012	5.618
1.46	Search for supersymmetry in hadronic final states using M-T2 in pp	Journal Of High Energy	2012	F C10
146	collisions at root s=7 TeV Search for the standard model Higgs boson in the H -> ZZ -> 2 2v	Physics	2012	5.618
147	channel in pp collisions at root s=7 TeV	Journal Of High Energy Physics	2012	5.618
147	Search for the standard model Higgs boson in the H -> ZZ -> I(+)I(-	Journal Of High Energy	2012	3.010
148)tau(+)tau(-) decay channel in pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for the standard model Higgs boson produced in association	Journal Of High Energy		0.020
149	with W and Z bosons in pp collisions at root s=7 TeV	Physics	2012	5.618
	Search for third-generation leptoquarks and scalar bottom quarks	Journal Of High Energy		
150	in pp collisions at root s=7 TeV	Physics	2012	5.618
	Shape, transverse size, and charged-hadron multiplicity of jets in	Journal Of High Energy		
151	pp collisions at root s=7 TeV	Physics	2012	5.618
	Suppression of non-prompt J/psi, prompt J/psi, and Upsilon(1S) in	Journal Of High Energy		
152	PbPb collisions at root s(NN)=2.76 TeV	Physics	2012	5.618
153	Performance of CMS muon reconstruction in pp collision events at root s=7Tev	Journal Of Instrumentation	2012	1.656
133	Performance of tau-lepton reconstruction and identification in	Journal Of Institution	2012	1.030
154	CMS	Journal Of Instrumentation	2012	1.656
<u> </u>	The commissioning and the first operational experiences of the	Nuclear Instruments & Methods In Physics		
155	CMS RPC detector control system at LHC	Research Section A-Accelerators Spectrometers Detectors And Associated Equipment	2012	1.142
156	Combined search for the quarks of a sequential fourth generation	Physical Review D	2012	4.691
	Inclusive search for squarks and gluinos in pp collisions at root s=7			
157	TeV	Physical Review D	2012	4.691
	Measurement of the rapidity and transverse momentum			
158	distributions of Z bosons in pp collisions at root(s)=7 TeV	Physical Review D	2012	4.691
150	Measurement of the t(t)over-bar production cross section in pp	Dhysical Basian S	2012	4.604
159	collisions at root s=7 TeV in dilepton final states containing a tau	Physical Review D	2012	4.691
160	Search for pair production of first- and second-generation scalar	Physical Review D	2012	4 601
160	leptoquarks in pp collisions at root s=7 TeV Search for supersymmetry in events with b-quark jets and missing	Physical Review D	2012	4.691
161	transverse energy in pp collisions at 7 TeV	Physical Review D	2012	4.691
101	Azimuthal Anisotropy of Charged Particles at High Transverse	1 Try Steat Neview D	2012	7.031
162	Momenta in Pb-Pb Collisions at root S-NN=2.76 TeV	Physical Review Letters	2012	7.943
163	Measurement of the Electron Charge Asymmetry in Inclusive W	Physical Review Letters	2012	7.943
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	Production in pp Collisions at root s=7 TeV			
	Measurement of the Pseudorapidity and Centrality Dependence of			
	the Transverse Energy Density in Pb-Pb Collisions at root			
164	s(NN)=2.76 TeV	Physical Review Letters	2012	7.943
165	Observation of a New Xi(b) Baryon	Physical Review Letters	2012	7.943
166	Observation of Sequential upsilon Suppression in PbPb Collisions	Physical Review Letters	2012	7.943
	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay			
167	Channel in pp Collisions at root s=7 TeV	Physical Review Letters	2012	7.943
	Search for a W ' or Techni-rho Decaying into WZ in pp Collisions at			
168	root s=7 TeV	Physical Review Letters	2012	7.943
100	Search for Dark Matter and Large Extra Dimensions in pp Collisions	Dhariaal Davierra Lettera	2012	7.042
169	Yielding a Photon and Missing Transverse Energy Search for Heavy Neutrinos and W-R Bosons with Right-Handed	Physical Review Letters	2012	7.943
	Couplings in a Left-Right Symmetric Model in pp Collisions at root			
170	s=7 TeV	Physical Review Letters	2012	7.943
170	Search for New Physics in the Multijet and Missing Transverse	1 Hysical Neview Letters	2012	7.5 15
171	Momentum Final State in Proton-Proton Collisions at root s=7 TeV	Physical Review Letters	2012	7.943
	Search for New Physics with Same-Sign Isolated Dilepton Events	,		
172	with Jets and Missing Transverse Energy	Physical Review Letters	2012	7.943
	Search for Signatures of Extra Dimensions in the Diphoton Mass	,		
173	Spectrum at the Large Hadron Collider	Physical Review Letters	2012	7.943
	Search for the Standard Model Higgs Boson in the Decay Channel H			
174	-> ZZ -> 4l in pp Collisions at root s=7 TeV	Physical Review Letters	2012	7.943
	Study of the Dijet Mass Spectrum in pp -> W + jets Events at root			
175	s=7 TeV	Physical Review Letters	2012	7.943
	Combined results of searches for the standard model Higgs boson			
176	in pp collisions at root s=7 TeV	Physics Letters B	2012	4.569
4	Inclusive and differential measurements of the t(t)over-bar charge	a	2012	. =
177	asymmetry in proton-proton collisions root s=7 TeV	Physics Letters B	2012	4.569
170	Jet momentum dependence of jet quenching in PbPb collisions at	Dhysics Letters D	2012	4.569
178	root s(NN)=2.76 TeV Measurement of isolated photon production in pp and PbPb	Physics Letters B	2012	4.509
179	collisions at root s(NN)=2.76 TeV	Physics Letters B	2012	4.569
1/3	Measurement of the charge asymmetry in top-quark pair	Filysics Letters B	2012	4.303
180	production in proton-proton collisions at root s=7 TeV	Physics Letters B	2012	4.569
	Measurement of the Lambda(b) cross section and the	Thysics detects b		
	(Lambda)over-bar(b) to Lambda(b) ratio with J/psi Lambda decays			
181	in pp collisions at root s=7 TeV CMS Collaboration	Physics Letters B	2012	4.569
	Observation of a new boson at a mass of 125 GeV with the CMS			
182	experiment at the LHC	PHYSICS LETTERS B	2012	4.569
	Search for charge-asymmetric production of W ' bosons in t(t)over-			
183	bar + jet events from pp collisions at root s=7 TeV	Physics Letters B	2012	4.569
	Search for heavy lepton partners of neutrinos in proton-proton			
184	collisions in the context of the type III seesaw mechanism	Physics Letters B	2012	4.569
405	Search for heavy long-lived charged particles in pp collisions at root	Discours I allow D	2012	4.500
185	s=7 TeV	Physics Letters B	2012	4.569
106	Search for heavy Majorana neutrinos in $mu(+/-)mu(+/-) + jets$ and $e(+/-)e(+/-) + jets$ events in pp collisions at root s=7 TeV	Dhysics Lottors P	2012	4 560
186	Search for heavy, top-like quark pair production in the dilepton	Physics Letters B	2012	4.569
187	final state in pp collisions at. root s=7 TeV	Physics Letters B	2012	4.569
107	Search for high-mass resonances decaying into tau-lepton pairs in	Titysics Letters B	2012	4.303
188	pp collisions at root s=7 TeV	Physics Letters B	2012	4.569
	Search for large extra dimensions in dimuon and dielectron events	,		
189	in pp collisions at root s=7 TeV	Physics Letters B	2012	4.569
	Search for narrow resonances in dilepton mass spectra in pp			
190	collisions at root s=7 TeV CMS Collaboration	Physics Letters B	2012	4.569
	Search for neutral Higgs bosons decaying to tau pairs in pp			
191	collisions at root s=7 TeV	Physics Letters B	2012	4.569
	Search for pair produced fourth-generation up-type quarks in pp			
192	collisions at root s=7 TeV with a lepton in the final state	Physics Letters B	2012	4.569
	Search for physics beyond the standard model in events with a Z			
405	boson, jets, and missing transverse energy in pp collisions at root			
193	s=7 TeV	Physics Letters B	2012	4.569
194	Search for the standard model Higgs boson decaying into two	Physics Letters B	2012	4.569

	photons in pp collisions at root s=7 TeV	T		
	Search for the standard model Higgs boson decaying to bottom			
195	quarks in pp collisions at root s=7 TeV	Physics Letters B	2012	4.569
193	Search for the standard model Higgs boson decaying to W+W- in	Filysics Letters B	2012	4.303
196	the fully leptonic final state in pp collisions at root s=7 TeV	Physics Letters B	2012	4.569
		Physics Letters B Physics Letters B		
197	Search for three-jet resonances in pp collisions at root s=7 TeV Study of W boson production in PbPb and pp collisions at root	Physics Letters B	2012	4.569
100	· · · · · · · · · · · · · · · · · · ·	Dhysics Letters D	2012	4.560
198	s(NN)=2.76 TeV A New Boson with a Mass of 125 GeV Observed with the CMS	Physics Letters B	2012	4.569
100		COLENCE	2012	24.027
199	Experiment at the Large Hadron Collider	SCIENCE	2012	31.027
200	Jet and underlying event properties as a function of charged-	F Bhiaal laal C	2012	F 426
200	particle multiplicity in proton-proton collisions at root s=7 TeV	European Physical Journal C	2013	5.436
204	Measurement of differential top-quark-pair production cross	5	2042	F 426
201	sections in pp collisions at root s=7 TeV	European Physical Journal C	2013	5.436
202	Measurement of masses in the t(t)over-tilde system by kinematic		2010	- 406
202	endpoints in pp collisions at root s=7 TeV	European Physical Journal C	2013	5.436
	Measurement of the ratio of the inclusive 3-jet cross section to the			
	inclusive 2-jet cross section in pp collisions at root s=7 TeV and first			
203	determination of the strong coupling constant in the TeV range	European Physical Journal C	2013	5.436
	Measurement of the sum of WW and WZ production with W plus			
204	dijet events in pp collisions at root s=7 TeV	European Physical Journal C	2013	5.436
	Measurement of the t(t)over-bar production cross section in the			
205	tau plus jets channel in pp collisions at root s=7 TeV	European Physical Journal C	2013	5.436
	Measurement of the W+W- cross section in pp collisions at and			
206	limits on anomalous WW gamma and WWZ couplings	European Physical Journal C	2013	5.436
	Search for a standard-model-like Higgs boson with a mass in the			
207	range 145 to 1000 GeV at the LHC	European Physical Journal C	2013	5.436
	Search for physics beyond the standard model in events with tau			
	leptons, jets, and large transverse momentum imbalance in pp			
208	collisions at root s=7 TeV	European Physical Journal C	2013	5.436
	Search for supersymmetry in hadronic final states with missing			
	transverse energy using the variables alpha(T) and b-quark			
209	multiplicity in pp collisions at root s=8 TeV	European Physical Journal C	2013	5.436
	Search for supersymmetry in pp collisions at root s=7 TeV in events			
210	with a single lepton, jets, and missing transverse momentum	European Physical Journal C	2013	5.436
	Search for top-squark pair production in the single-lepton final			
211	state in pp collisions at	European Physical Journal C	2013	5.436
	Measurement of the cross section and angular correlations for			
	associated production of a Z boson with b hadrons in pp collisions	Journal Of High Energy		
212	at root s=7 TeV	Physics	2013	6.22
	Measurement of the differential and double-differential Drell-Yan	Journal Of High Energy		
213	cross sections in proton-proton collisions at root s=7 TeV	Physics	2013	6.22
	Measurement of the hadronic activity in events with a Z and two			
	jets and extraction of the cross section for the electroweak	Journal Of High Energy		
214	production of a Z with two jets in pp collisions at root s=7 TeV	Physics	2013	6.22
	Measurement of the Lambda(0)(b) lifetime in pp collisions at root	Journal Of High Energy		
215	s=7 TeV	Physics	2013	6.22
	Measurement of the production cross section for Z gamma ->			
	nu(nu)over-bar gamma in pp collisions at root s=7 TeV and limits	Journal Of High Energy		
216	on ZZ gamma and Z gamma gamma triple gauge boson couplings	Physics	2013	6.22
	Measurement of the t(t)over-bar production cross section in the	Journal Of High Energy		
217	all-jet final state in pp collisions at root s=7 TeV	Physics	2013	6.22
	Measurement of the W-boson helicity in top-quark decays from			
	t(t)over-bar production in lepton plus jets events in pp collisions at	Journal Of High Energy		
218	root s=7 TeV	Physics	2013	6.22
	Measurement of the X(3872) production cross section via decays	Journal Of High Energy		
219	to J/psi pi(+)pi(-) in pp collisions at root s=7 TeV	Physics	2013	6.22
	Measurement of the ZZ production cross section and search for			
	anomalous couplings in 2121' final states in pp collisions at root s=7	Journal Of High Energy		
220	TeV	Physics	2013	6.22
	Observation of a new boson with mass near 125 GeV in pp	Journal Of High Energy		
221	collisions at root s=7 and 8 TeV	Physics	2013	6.22
	Search for exotic resonances decaying into WZ/ZZ in pp collisions	Journal Of High Energy		
222	at root s=7 TeV	Physics	2013	6.22

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222	Country Country of the desired by the country of th	Journal Of High Energy	2012	6.22
223	Search for microscopic black holes in pp collisions at root s=8 TeV	Physics	2013	6.22
224	Search for narrow resonances and quantum black holes in inclusive	Journal Of High Energy	2012	6.22
224	and b-tagged dijet mass spectra from pp collisions at root s=7 TeV	Physics	2013	6.22
225	Search for new physics in events with photons, jets, and missing	Journal Of High Energy	2042	6.22
225	transverse energy in pp collisions at root s=7 TeV	Physics	2013	6.22
226	search for new physics in events with same-sign dileptons and b	Journal Of High Energy	2010	
226	jets in pp collisions at root s = 8 TeV (vol 3, pg 037, 2013)	Physics	2013	6.22
	Search for new physics in events with same-sign dileptons and b	Journal Of High Energy		
227	jets in pp collisions at root s=8 TeV	Physics	2013	6.22
	Search for supersymmetry in final states with missing transverse			
	energy and 0, 1, 2, or >= 3 b-quark jets in 7 TeV pp collisions using	Journal Of High Energy		
228	the variable alpha(T)	Physics	2013	6.22
	Search for the standard model Higgs boson produced in association	Journal Of High Energy		
229	with a top-quark pair in pp collisions at the LHC	Physics	2013	6.22
	Search in leptonic channels for heavy resonances decaying to long-	Journal Of High Energy		
230	lived neutral particles	Physics	2013	6.22
	Searches for long-lived charged particles in pp collisions at root s=7	Journal Of High Energy		
231	and 8 TeV	Physics	2013	6.22
		Journal Of High Energy		
232	Studies of jet mass in dijet and W/Z plus jet events	Physics	2013	6.22
	Study of exclusive two-photon production of W+W- in pp collisions			
	at root s=7 TeV and constraints on anomalous quartic gauge	Journal Of High Energy		
233	couplings	Physics	2013	6.22
	Study of the underlying event at forward rapidity in pp collisions at	Journal Of High Energy		
234	root s=0.9, 2.76, and 7 TeV	Physics	2013	6.22
	Energy calibration and resolution of the CMS electromagnetic			
235	calorimeter in pp collisions at root s=7 TeV	Journal Of Instrumentation	2013	1.526
236	Identification of b-quark jets with the CMS experiment	Journal Of Instrumentation	2013	1.526
	The performance of the CMS muon detector in proton-proton			
237	collisions at root s=7 TeV at the LHC	Journal Of Instrumentation	2013	1.526
	Measurement of the elliptic anisotropy of charged particles			
238	produced in PbPb collisions at root s(NN)=2.76 TeV	Physical Review C	2013	3.881
	Interpretation of searches for supersymmetry with simplified			
239	models	Physical Review D	2013	4.864
	Measurement of neutral strange particle production in the	,		
240	underlying event in proton-proton collisions at root s=7 TeV	Physical Review D	2013	4.864
	Measurements of differential jet cross sections in proton-proton	,		
241	collisions at root s=7 TeV with the CMS detector	Physical Review D	2013	4.864
	Observation of a diffractive contribution to dijet production in	,		
242	proton-proton collisions at root s = 7 TeV	Physical Review D	2013	4.864
	Rapidity distributions in exclusive Z plus jet and gamma plus jet	,		
243	events in pp collisions at root s=7 TeV	Physical Review D	2013	4.864
	Search for contact interactions in mu(+)mu(-) events in pp	,		
244	collisions at root s = 7 TeV	Physical Review D	2013	4.864
	Search for contact interactions using the inclusive jet p(T)	,		
245	spectrum in pp collisions at root s=7 TeV	Physical Review D	2013	4.864
	Search for fractionally charged particles in pp collisions at root s=7	yo.caev.ev. 2	2010	
246	TeV	Physical Review D	2013	4.864
	Search for narrow resonances using the dijet mass spectrum in pp	yerea. neview 2	2010	
247	collisions at root s=8 TeV	Physical Review D	2013	4.864
	Search for new physics in final states with a lepton and missing	yorea. neview 2	2010	
248	transverse energy in pp collisions at the LHC	Physical Review D	2013	4.864
	Search for supersymmetry in events with opposite-sign dileptons	Thysical neview B	2013	1.001
249	and missing transverse energy using an artificial neural network	Physical Review D	2013	4.864
243	Search for supersymmetry in final states with a single lepton, b-	Thysical neview B	2013	4.004
	quark jets, and missing transverse energy in proton-proton			
250	collisions at root s=7 TeV	Physical Review D	2013	4.864
250	Search for Z ' resonances decaying to t(t)over-bar in dilepton plus	i nysicai neview D	2013	4.004
		I		
251		Physical Review D	2012	
251	jets final states in pp collisions at root s=7 TeV	Physical Review D	2013	4.864
	jets final states in pp collisions at root s=7 TeV Evidence for Associated Production of a Single Top Quark and W			
251 252	jets final states in pp collisions at root s=7 TeV Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at root s=7 TeV	Physical Review D Physical Review Letters	2013	7.728
	jets final states in pp collisions at root s=7 TeV Evidence for Associated Production of a Single Top Quark and W			

	Management of a control of a co	T	1	
254	Measurement of associated production of vector bosons and top	Dhysical Daview Letters	2012	7 720
254	quark-antiquark pairs in pp collisions at root s=7 TeV	Physical Review Letters	2013	7.728
255	Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb- Pb Collisions at root S-NN=2.76 TeV	Physical Review Letters	2013	7.728
233	Measurement of the B-s(0) ->mu(+)mu(-) Branching Fraction and	Filysical Review Letters	2013	7.728
256	Search for B-0 -> mu(+)mu(-) with the CMS Experiment	Physical Review Letters	2013	7.728
230	Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S)	Thysical Neview Letters	2013	7.720
257	Polarizations in pp Collisions at root s 7 TeV	Physical Review Letters	2013	7.728
	Search for Pair Production of Third-Generation Leptoquarks and	· injured the treat detects	2015	71720
258	Top Squarks in pp Collisions at root s=7 TeV	Physical Review Letters	2013	7.728
	Search for pair-produced dijet resonances in four-jet final states in	,		
259	pp collisions at root s=7 TeV	Physical Review Letters	2013	7.728
	Search for Top Squarks in R-Parity-Violating Supersymmetry Using			
260	Three or More Leptons and b-Tagged Jets	Physical Review Letters	2013	7.728
	Searches for new physics using the t(t)over-bar invariant mass			
261	distribution in pp collisions at root s=8 TeV	Physical Review Letters	2013	7.728
	Study of the Mass and Spin-Parity of the Higgs Boson Candidate via			
262	Its Decays to Z Boson Pairs	Physical Review Letters	2013	7.728
	Angular analysis and branching fraction measurement of the decay			
263	B-0 -> K*(0)mu(+)mu(-)	Physics Letters B	2013	6.019
264	Event shapes and azimuthal correlations in Z plus jets events in pp	Dhysics Letters D	2012	6.010
264	collisions at root s=7 TeV Forward-backward asymmetry of Drell-Yan lepton pairs in pp	Physics Letters B	2013	6.019
265	collisions at root s=7 TeV	Physics Letters B	2013	6.019
203	Measurement of the inelastic proton-proton cross section at root	Thysics Letters B	2013	0.015
266	s=7 TeV	Physics Letters B	2013	6.019
	Measurement of the prompt J/psi and psi(2S) polarizations in pp	yoloo zeeeelo z	2015	0.015
267	collisions at root s=7 TeV	Physics Letters B	2013	6.019
	Measurement of the t(t)over-bar production cross section in pp	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
268	collisions at root s=7 TeV with lepton plus jets final states	Physics Letters B	2013	6.019
	Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S)			
269	cross sections in pp collisions at root s=7 TeV	Physics Letters B	2013	6.019
	Measurement of the W+W- and ZZ production cross sections in pp			
270	collisions at root s=8 TeV	Physics Letters B	2013	6.019
	Multiplicity and transverse momentum dependence of two- and			
271	four-particle correlations in pPb and PbPb collisions	Physics Letters B	2013	6.019
272	Observation of long-range, near-side angular correlations in pPb	Bl. size Letters B	2042	6.040
272	collisions at the LHC Search for a Higgs boson decaying into a b-quark pair and	Physics Letters B	2013	6.019
	produced in association with b quarks in proton-proton collisions			
273	at 7 TeV	Physics Letters B	2013	6.019
273	Search for a Higgs boson decaying into a Z and a photon in pp	Thysics Letters B	2013	0.013
274	collisions at root s=7 and 8 TeV	Physics Letters B	2013	6.019
	Search for a narrow, spin-2 resonance decaying to a pair of Z	,		
275	bosons in the q(q)over-barl(+)I(-) final state	Physics Letters B	2013	6.019
	Search for a new bottomonium state decaying to			
276	Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV	Physics Letters B	2013	6.019
	Search for a non-standard-model Higgs boson decaying to a pair of			
277	new light bosons in four-muon final states	Physics Letters B	2013	6.019
	Search for a W ' boson decaying to a bottom quark and a top quark			
278	in pp collisions at root s=7 TeV	Physics Letters B	2013	6.019
270	Search for anomalous production of highly boosted Z bosons	Dhunias Latter S	2042	C 040
279	decaying to mu(+)mu(-) in proton-proton collisions at root s=7 TeV	Physics Letters B	2013	6.019
280	Search for excited leptons in pp collisions at root s=7 TeV	Physics Letters B	2013	6.019
281	Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV	Physics Letters B	2013	6.019
201	Search for gluino mediated bottom- and top-squark production in	i nysics cetters b	2013	0.013
282	multijet final states in pp collisions at 8 TeV	Physics Letters B	2013	6.019
	Search for heavy narrow dilepton resonances in pp collisions at	1.79.00 200010 0	_013	5.015
283	root s=7 TeV and root s=8 TeV	Physics Letters B	2013	6.019
	Search for heavy resonances in the W/Z-tagged dijet mass	,		
284	spectrum in pp collisions at 7 TeV	Physics Letters B	2013	6.019
	Search for long-lived particles in events with photons and missing			
285	energy in proton-proton collisions at root s=7 TeV	Physics Letters B	2013	6.019

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206	Search for new physics in events with opposite-sign leptons, jets,	Dhysics Letters D	2012	6.010
286	and missing transverse energy in pp collisions at root s=7 TeV	Physics Letters B	2013	6.019
207	Search for supersymmetry in events with photons and low missing	Dhusias Lattaus D	2012	6.010
287	transverse energy in pp collisions at root s=7 TeV	Physics Letters B	2013	6.019
200	Searches for Higgs bosons in pp collisions at root s=7 and 8 TeV in	Dhusias Lattaus D	2012	6.010
288	the context of four-generation and fermiophobic models	Physics Letters B	2013	6.019
200	Studies of jet quenching using isolated-photon plus jet correlations	Dhusias Lattaus D	2012	6.010
289	in PbPb and pp collisions at root s(NN)=2.76 TeV	Physics Letters B	2013	6.019
200	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at root s=7TeV	Furancan Physical Journal C	2014	F 094
290		European Physical Journal C	2014	5.084
291	Measurement of jet multiplicity distributions in t(t)over-bar production in pp collisions at root s=7TeV	European Physical Journal C	2014	5.084
291	Measurement of pseudorapidity distributions of charged particles	European Physical Journal C	2014	5.064
	in proton-proton collisions at root s=8 TeV by the CMS and TOTEM			
292	experiments	European Physical Journal C	2014	5.084
292	Measurement of the top-quark mass in all-jets t(t)over-bar events	European Physical Journal C	2014	5.064
293	in pp collisions at root s=7 TeV	European Physical Journal C	2014	5.084
233	Measurement of top quark-antiquark pair production in	Luropean i nysicarsoumare	2014	3.004
294	association with a W or Z boson in pp collisions at root s=8 TeV	European Physical Journal C	2014	5.084
234	Measurement of WZ and ZZ production in pp collisions at in final	European i nysicarsoumare	2014	3.004
295	states with b-tagged jets	European Physical Journal C	2014	5.084
233	Observation of the diphoton decay of the Higgs boson and	European inysicarsoumare	2011	3.001
296	measurement of its properties	European Physical Journal C	2014	5.084
297	Probing color coherence effects in pp collisions at root s=7 TeV	European Physical Journal C	2014	5.084
	Search for heavy neutrinos and W bosons with right-handed	zaropean injoicario ama c	201.	3.00 .
298	couplings in proton-proton collisions at root s=8TeV	European Physical Journal C	2014	5.084
	Search for invisible decays of Higgs bosons in the vector boson	,		
299	fusion and associated ZH production modes	European Physical Journal C	2014	5.084
	Searches for electroweak production of charginos, neutralinos, and	, , , , , , , , , , , , , , , , , , , ,		
	sleptons decaying to leptons and W, Z, and Higgs bosons in pp			
300	collisions at 8 TeV	European Physical Journal C	2014	5.084
	Studies of dijet transverse momentum balance and pseudorapidity			
301	distributions in pPb collisions at root s(NN)=5.02 TeV	European Physical Journal C	2014	5.084
	Study of the production of charged pions, kaons, and protons in			
302	pPb collisions at root SNN=5.02 TeV	European Physical Journal C	2014	5.084
	Event activity dependence of (nS) production in=5.02 TeV pPb	Journal Of High Energy		
303	and=2.76 TeV pp collisions	Physics	2014	6.111
	Evidence for the 125 GeV Higgs boson decaying to a pair of tau	Journal Of High Energy		
304	leptons	Physics	2014	6.111
	Identification techniques for highly boosted W bosons that decay	JOURNAL OF HIGH ENERGY		
305	into hadrons	PHYSICS	2014	6.111
	Measurement of associated W plus charm production in pp	Journal Of High Energy		
306	collisions at root s=7 TeV	Physics	2014	6.111
207	Measurement of Higgs boson production and properties in the	Journal Of High Energy		6.444
307	WW decay channel with leptonic final states	Physics	2014	6.111
200	Measurement of prompt J/psi pair production in pp collisions at	Journal Of High Energy	2014	6 4 4 4
308	root s = 7 Tev	Physics	2014	6.111
200	Measurement of the production cross sections for a Z boson and	Journal Of High Energy	2014	C 111
309	one or more b jets in pp collisions at root s=7 TeV	Physics	2014	6.111
210	Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s = 8 TeV (vol 2, 024, 2014)	Journal Of High Energy	2014	6 111
310	1 11 , , , ,	Physics	2014	6.111
211	Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=8 TeV	Journal Of High Energy	2014	6 111
311	Measurement of the t-channel single-top-quark production cross	Physics	2014	6.111
1	section and of the V (tb) CKM matrix element in pp collisions at	Journal Of High Energy		
312	root s=8 TeV	Physics	2014	6.111
312	Measurement of the triple-differential cross section for photon	Journal Of High Energy	2014	0.111
313	plus jets production in proton-proton collisions at=7 TeV	Physics	2014	6.111
313	Measurements of the t(t)Overbar charge asymmetry using the	Journal Of High Energy	2014	0.111
314	dilepton decay channel in pp collisions at root s=7 TeV	Physics	2014	6.111
	Search for anomalous production in the highly-boosted all-	Journal Of High Energy		
315	hadronic final state (vol 09, 029, 2012)	Physics	2014	6.111
	Search for massive resonances decaying into pairs of boosted	Journal Of High Energy		_
			1	
316	bosons in semi-leptonic final states at root s=8 TeV	Physics	2014	6.111

	Search for massive resonances in dijet systems containing jets	Journal Of High Engrav	1	
317	tagged as W or Z boson decays in pp collisions at root s=8 TeV	Journal Of High Energy Physics	2014	6.111
317	Search for neutral MSSM Higgs bosons decaying to a pair of tau	Journal Of High Energy	2014	0.111
318	leptons in pp collisions	Physics	2014	6.111
310	Search for new physics in events with same-sign dileptons and jets	Journal Of High Energy	2014	0.111
319	in pp collisions at root s=8 TeV	Physics	2014	6.111
313	Search for new physics in the multijet and missing transverse	Journal Of High Energy	2014	0.111
320	momentum final state in proton-proton collisions at root s=8 Tev	Physics	2014	6.111
320	Search for pair production of excited top quarks in the lepton plus	Journal Of High Energy	2011	0.111
321	jets final state	Physics	2014	6.111
	Search for standard model production of four top quarks in the	Journal Of High Energy		_
322	lepton plus jets channel in pp collisions at root S=8 TeV	Physics	2014	6.111
	Search for the associated production of the Higgs boson with a	Journal Of High Energy		
323	top-quark pair	Physics	2014	6.111
	Search for the associated production of the Higgs boson with a	Journal Of High Energy		
324	top-quark pair (vol 9, 087, 2014)	Physics	2014	6.111
	Search for W ' -> tb decays in the lepton plus jets final state in pp	Journal Of High Energy		
325	collisions at root s=8 TeV	Physics	2014	6.111
	Studies of azimuthal dihadron correlations in ultra-central PbPb	Journal Of High Energy		
326	collisions at=2.76 TeV	Physics	2014	6.111
	Study of double parton scattering using W+2-jet events in proton-	Journal Of High Energy		
327	proton collisions at root s=7 TeV	Physics	2014	6.111
	Study of hadronic event-shape variables in multijet final states in	Journal Of High Energy		
328	pp collisions at root s=7 TeV	Physics	2014	6.111
329	Alignment of the CMS tracker with LHC and cosmic ray data	Journal Of Instrumentation	2014	1.399
	Description and performance of track and primary-vertex			
330	reconstruction with the CMS tracker	Journal Of Instrumentation	2014	1.399
	Measurement of higher-order harmonic azimuthal anisotropy in			
331	PbPb collisions at root s(NN)=2.76 TeV	Physical Review C	2014	3.733
	Measurement of jet fragmentation in PbPb and pp collisions at			
332	root s(NN)=2.76 TeV	Physical Review C	2014	3.733
222	Measurement of four-jet production in proton-proton collisions at	Dhysical Basiass B	2014	4.642
333	root s=7 TeV	Physical Review D	2014	4.643
	Measurement of the muon charge asymmetry in inclusive pp -> W plus X production at root s=7 TeV and an improved determination			
334	of light parton distribution functions	Physical Review D	2014	4.643
334	Measurement of the properties of a Higgs boson in the four-lepton	T Trysical Neview D	2014	4.043
335	final state	Physical Review D	2014	4.643
333	Measurement of the ratio of inclusive jet cross sections using the	i iiyalaa iiaticii 2	2011	
	anti-k(T) algorithm with radius parameters R=0.5 and 0.7 in pp			
336	collisions at root s=7 TeV	Physical Review D	2014	4.643
	Measurement of the W gamma and Z gamma inclusive cross			
	sections in pp collisions at root s=7 TeV and limits on anomalous			
337	triple gauge boson couplings	Physical Review D	2014	4.643
	Search for anomalous production of events with three or more			
338	leptons in pp collisions at root s=8 TeV	Physical Review D	2014	4.643
	Search for jet extinction in the inclusive jet-p(T) spectrum from			
339	proton-proton collisions at root s=8 TeV	Physical Review D	2014	4.643
	Search for supersymmetry with razor variables in pp collisions at			
340	root s=7 TeV	PHYSICAL REVIEW D	2014	4.643
	Search for the standard model Higgs boson produced in association			
341	with a W or a Z boson and decaying to bottom quarks	Physical Review D	2014	4.643
	Search for WW gamma and WZ gamma production and constraints			
2.0	on anomalous quartic gauge couplings in pp collisions at root s=8	District District	2011	4.640
342	TeV	Physical Review D	2014	4.643
	Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV	Dhysical Barriery D	204.4	4 6 43
		Physical Review D	2014	4.643
343				
343	Searches for heavy Higgs bosons in two-Higgs-doublet models and			
	Searches for heavy Higgs bosons in two-Higgs-doublet models and for t -> ch decay using multilepton and diphoton final states in pp	DHAZICVI DEMEMO	2014	A 6A2
343	Searches for heavy Higgs bosons in two-Higgs-doublet models and for t -> ch decay using multilepton and diphoton final states in pp collisions at 8 TeV	PHYSICAL REVIEW D	2014	4.643
344	Searches for heavy Higgs bosons in two-Higgs-doublet models and for t -> ch decay using multilepton and diphoton final states in pp collisions at 8 TeV Evidence of b-Jet Quenching in PbPb Collisions at root S-NN=2.76			
	Searches for heavy Higgs bosons in two-Higgs-doublet models and for t -> ch decay using multilepton and diphoton final states in pp collisions at 8 TeV Evidence of b-Jet Quenching in PbPb Collisions at root S-NN=2.76 TeV	PHYSICAL REVIEW D Physical Review Letters	2014	4.643 7.512
344	Searches for heavy Higgs bosons in two-Higgs-doublet models and for t -> ch decay using multilepton and diphoton final states in pp collisions at 8 TeV Evidence of b-Jet Quenching in PbPb Collisions at root S-NN=2.76			

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347	Measurement of Prompt psi(2S) to J/psi. Yield Ratios in Pb-Pb and p-p Collisions at root sNN=2.76 TeV	PHYSICAL REVIEW LETTERS	2014	7.512
347	Measurements of t(t)over-bar Spin Correlations and Top-Quark	TITISICAL REVIEW LETTERS	2014	7.512
	Polarization Using Dilepton Final States in pp Collisions at root s=7			
348	TeV	Physical Review Letters	2014	7.512
	Observation of the Associated Production of a Single Top Quark -			
349	and a W Boson in pp Collisions at root s=8 TeV	Physical Review Letters	2014	7.512
	Search for Flavor-Changing Neutral Currents in Top-Quark Decays t			
350	-> Zq in pp Collisions at root s=8 TeV	Physical Review Letters	2014	7.512
351	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays	Physical Povious Letters	2014	7 512
351	Search for Top-Quark Partners with Charge 5/3 in the Same-Sign	Physical Review Letters	2014	7.512
352	Dilepton Final State	Physical Review Letters	2014	7.512
	Constraints on the Higgs boson width from off-shell production			
353	and decay to Z-boson pairs	Physics Letters B	2014	6.131
	Determination of the top-quark pole mass and strong coupling			
	constant from the t(t)over-bar production cross section in pp			
354	collisions at root s=7 TeV	Physics Letters B	2014	6.131
	Inclusive search for a vector-like T quark with charge 2/3 in pp		2011	6.404
355	collisions at root s=8 TeV	Physics Letters B	2014	6.131
356	Measurement of the production cross section for a W boson and two b jets in pp collisions at root s=7 TeV	Physics Letters B	2014	6.131
330	Measurement of the ratio B(t -> Wb)/B(t -> Wq) in pp collisions at	Physics Letters B	2014	0.151
357	root s=8 TeV	Physics Letters B	2014	6.131
337	Measurement of the t(t)over-bar production cross section in pp	. Hydrod Letters B	2011	0.101
	collisions at root s=8 TeV in dilepton final states containing one tau			
358	lepton	PHYSICS LETTERS B	2014	6.131
	Modification of jet shapes in PbPb collisions at root s(NN)=2.76			
359	TeV	Physics Letters B	2014	6.131
	Observation of a peaking structure in the J/psi phi mass spectrum			
360	from B-+/> J/psi phi K-+/- decays	Physics Letters B	2014	6.131
361	Search for baryon number violation in top-quark decays Search for excited quarks in the gamma plus jet final state in	Physics Letters B	2014	6.131
362	proton-proton collisions at root s=8 TeV	Physics Letters B	2014	6.131
302	Search for pair production of third-generation scalar leptoquarks	Thysics Letters B	2014	0.131
363	and top squarks in proton-proton collisions at v root s=8 TeV	PHYSICS LETTERS B	2014	6.131
	Search for supersymmetry in pp collisions at root s=8 TeV in events			
364	with a single lepton, large jet multiplicity, and multiple b jets	Physics Letters B	2014	6.131
	Search for top-squark pairs decaying into Higgs or Z bosons in pp			
365	collisions at root s=8 TeV	Physics Letters B	2014	6.131
	Searches for light- and heavy-flavour three-jet resonances in pp			
366	collisions at root s=8 TeV	Physics Letters B	2014	6.131
	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp	EUROPEAN PHYSICAL		
367	collisions at root s=7TeV	JOURNAL C	2015	5.084
307	Constraints on the pMSSM, AMSB model and on other models	3001117120	2013	3.001
	from the search for long-lived charged particles in proton-proton	EUROPEAN PHYSICAL		
368	collisions at root s=8TeV	JOURNAL C	2015	5.084
	Distributions of topological observables in inclusive three- and	EUROPEAN PHYSICAL		
369	four-jet events in pp collisions at root s=7 TeV	JOURNAL C	2015	5.084
270	Measurement of electroweak production of two jets in association	EUROPEAN PHYSICAL	2015	F 00.4
370	with a Z boson in proton-proton collisions at root s=8 TeV	JOURNAL C	2015	5.084
371	Measurement of the differential cross section for top quark pair production in pp collisions at root s=8TeV	EUROPEAN PHYSICAL JOURNAL C	2015	5.084
3/1	Measurement of the inclusive 3-jet production differential cross	JOURNALC	2013	3.004
	section in proton-proton collisions at 7 TeV and determination of	EUROPEAN PHYSICAL		
372	the strong coupling constant in the TeV range	JOURNAL C	2015	5.084
	Measurements of differential and double-differential Drell-Yan	EUROPEAN PHYSICAL		
373	cross sections in proton-proton collisions at root s=8 TeV	JOURNAL C	2015	5.084
	Nuclear effects on the transverse momentum spectra of charged	EUROPEAN PHYSICAL		
374	particles in pPb collisions at root s(NN)=5.02 TeV	JOURNAL C	2015	5.084
	Precise determination of the mass of the Higgs boson and tests of	ELIDODE VVI DITACIONI		
375	compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV	EUROPEAN PHYSICAL JOURNAL C	2015	5.084
3/3	asing proton combions at 7 and 6 TEV	JOURNALC	2013	5.004

Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method	5.084 5.084 5.084 6.111 6.111 6.111 6.111 6.111 6.111
Matrix element method JOURNAL C 2015	5.084 5.084 5.084 6.111 6.111 6.111 6.111 6.111 6.111
Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at root s=8TeV JOURNAL C 2015 Search for decays of stopped long-lived particles produced in proton-proton collisions at root s=8TeV JOURNAL C 2015 Comparison of the Z/gamma* plus jets to gamma plus jets cross JOURNAL OF HIGH ENERGY 94 Search for decays of the decaying to a pair of the production cross sections times branching fractions of 8-(t+/-) - 2/psip pit(+/-) and 8+/>1/psis k-+/- and 8(B-c(+/-)->1/psi pit(+/-)pi(-/-+))/8(B-c(+/-)->1/psis h-+/- and B(B-c(+/-)->1/psi pit(+/-)pi(-/-+))/8(B-c(+/-)->1/psis h-+/- and B(B-c(+/-)->1/psi pit(+/-)pi(-/-+))/8(B-c(+/-)->1/psis h-+/- and B(B-c(+/-)->1/psi pit(+/-)pit(-/-+))/8(B-c(+/-)->1/psis h-+/- and B(B-c(+/-)->1/psi pit(-/)pit(-/)pit(-/)pit(-/)pit(-/)pit(-/)pit(-/	5.084 5.084 5.084 6.111 6.111 6.111 6.111 6.111 6.111
Search for decays of stopped long-lived particles produced in proton-proton collisions at root s=8TeV JOURNAL C 2015	5 5.084 6 6.111 6 6.111 6 6.111 6 6.111 6 6.111 6 6.111
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378 proton-proton collisions at root s=8TeV JOURNAL C 2015	6.111 6.111 6.111 6.111 6.111 6.111 6.111
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433 Search for lepton-flavour-violating decays of the Higgs boson PHYSICS LETTERS B 2015 6.131	432		PHYSICS LETTERS B	2015	6.131
	433	Search for lepton-flavour-violating decays of the Higgs boson	PHYSICS LETTERS B	2015	6.131

	Search for narrow high-mass resonances in proton-proton			
434	collisions at root s=8 TeV decaying to a Z and a Higgs boson	PHYSICS LETTERS B	2015	6.131
	Search for new resonances decaying via WZ to leptons in proton-			
435	proton collisions at root s=8 TeV	PHYSICS LETTERS B	2015	6.131
	Search for pair-produced resonances decaying to jet pairs in			
436	proton-proton collisions at root s=8 TeV	PHYSICS LETTERS B	2015	6.131
	Search for quark contact interactions and extra spatial dimensions			
	using dijet angular distributions in proton-proton collisions at root			
437	s=8 TeV	PHYSICS LETTERS B	2015	6.131
	Search for resonant pair production of Higgs bosons decaying to			
	two bottom quark-antiquark pairs in proton-proton collisions at			
438	8TeV	PHYSICS LETTERS B	2015	6.131
	Search for stealth supersymmetry in events with jets, either			
	photons or leptons, and low missing transverse momentum in pp			
439	collisions at 8 TeV	PHYSICS LETTERS B	2015	6.131
	Searches for supersymmetry based on events with b jets and four			
440	W bosons in pp collisions at 8 TeV	PHYSICS LETTERS B	2015	6.131
	Study of W boson production in pPb collisions at root(NN)-N-			
441	S=5.02 TeV	PHYSICS LETTERS B	2015	6.131
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