

## Списък на публикациите представени за участие в конкурса

Приложения списък включва 101 публикации свързани с моето участие в експеримента CMS провеждащ изследвания на ускорителя LHC. В списъка са вградени линкове, които позволяват да се види пълният текст на статиите, както и списък на публикациите, в които са цитирани. В електронния вариант на документите има специална директория statii, в която са записани пълните текстове на публикациите в pdf формат.

Приведените работи са публикувани както следва:

<b>Nucl. Instruments and Meth. A</b>	<b>11</b>
<b>Nucl. Phys. B</b>	<b>4</b>
<b>Eur. Phys. J. C</b>	<b>6</b>
<b>J. Phys. G</b>	<b>2</b>
<b>JINST</b>	<b>18</b>
<b>Phys. Rev. Lett.</b>	<b>4</b>
<b>JHEP</b>	<b>17</b>
<b>Phys. Lett. B</b>	<b>13</b>
<b>Phys. Rev. D</b>	<b>5</b>
<b>Science</b>	<b>1</b>
<b>Nature</b>	<b>1</b>

**Общо 82 статии в реномирани списания с импакт фактор.** Останалите 19 работи са публикувани като CMS notes, материали на конференции и специални издания на ЦЕРН.

**Включените в списъка работи са цитирани общо 16412 пъти.**

**Златни публикации (> 20 цитирания) - 45**

1. **CMS: The Compact Muon Solenoid: Letter of intent for a general purpose detector at the LHC**  
CMS Collaboration (M. Della Negra (CERN), ..., L. Litov *et al.*). Oct 1992. 112 pp.  
CERN-LHCC-92-03, CERN-LHCC-I-1  
[Detailed record - Cited by 15 records](#)

2. **Simulations of the Lead/Scintillator electromagnetic and copper/scintillator sampling hadron CMS calorimeters** [Genchev, Vladimir](#) (Sofiya, Inst. Nucl. Res.) ; [INRNE](#) ; [Sofia](#) ; [Litov, BULGARIA / L / CMS-TN-1993-130](#); CERN-CMS-TN-1993-130.- Geneva : CERN, 1993 - 26 p. Fulltext: [PDF](#)
  
3. **Study of the CMS TP calorimetry system** [Genchev, Vladimir](#) (Sofiya, Inst. Nucl. Res.) ; [INRNE](#) ; [Litov, Sofia and L](#) ; [University, Sofia](#) ; [Bulgaria](#) / CMS-TN-1994-272; CERN-CMS-TN-1994-272.- Geneva : CERN, 1994 - 14 p. Fulltext: [PDF](#);
  
4. **HADRON AND JET ENERGY RESOLUTION OF THE CMS CALORIMETER SYSTEM (new design)** / [Sofia, V. Genchev INRNE Sofia / L. Litov Univ. of Sofia](#) CMS-TN-1994-150; CERN-CMS-TN-1994-150.- Geneva : CERN, 1994 - 15 p. Fulltext: [PDF](#);
  
5. **Fast simulation of the CMS hadron calorimeter using the parametrization of e.m. showers** / [Sofia Bulgaria, V. Genchev INRNE Sofia / L. Litov University of Sofia](#) CMS-TN-1994-149; CERN-CMS-TN-1994-149.- Geneva : CERN, 1994 - 16 p. Fulltext: [PDF](#);
  
6. **R & D proposal: Proposal for research and development of a hadron calorimeter for high magnetic fields**  
[RD43](#) Collaboration ([G. Bayatian \(Yerevan Phys. Inst.\) et al.](#)). May 1994. 24 pp.  
CERN-DRDC-94-22, CERN-DRDC-P-57
  
7. **Computer controlled CAMAC high voltage Power Supply for semiconductor detectors** / [Litov, Leander](#) (Sofiya U.) ; [Petev, Petio](#) (Sofiya U.) ; [of, University](#) ; [Sofia](#) ; [Georgiev, G](#) ; [INRNE](#) ; [Zamiatin](#) ; [JINR](#) ; [Dubna](#) ; [Russia](#) CMS-TN-1995-012; CERN-CMS-TN-1995-012.- Geneva : CERN, 1995 - 4 p. Fulltext: [PDF](#);
  
8. **Magnetic Field Influence on Energy Resolution of CMS HCAL** / [Litov, Leander](#) (Sofia U.) ; [Piperov, Stefan](#) (Sofiya, Inst. Nucl. Res.) ; [University, Sofia](#) ; [Sofia](#) ; [Bulgaria](#) CMS-TN-1996-031; CERN-CMS-TN-1996-031.- Geneva : CERN, 1996 - 17 p. Fulltext: [PDF](#);
  
9. **Study of magnetic field influence on hadron calorimeter response**  
[V. Abramov](#), ..L. Litov *et al.*. Nov 1996. 7 pp.  
IFVE-96-91, IHEP-96-91  
[Detailed record](#) - [Cited by 1 record](#)
  
10. **The CMS hadron calorimeter project\_ : Technical Design Report**  
CERN-LHCC-97-031 ; CMS-TDR-2. - Geneva : CERN, 1997. - 451 p. (Technical Design Report CMS ; 2)
  
11. **The CMS muon project\_ : Technical Design Report**  
CERN-LHCC-97-032 ; CMS-TDR-3. - Geneva : CERN, 1997. - 441 p. (Technical Design Report CMS ; 3)
  
12. **Application of avalanche photodiodes as a readout for scintillator tile fiber systems**  
[C. Cheshkov](#) (Sofiya U.), [G. Georgiev](#) (Sofiya, Inst. Nucl. Res.), [E. Gushchin](#) (Moscow, INR), [L. Litov](#), [I. Mandjoukov](#) (Sofiya U.), [V. Spassov](#) (Inter Q, Sofia). Apr 1999. 20 pp.  
Published in **JHEP 9909 (1999) 022**, **Nucl.Instrum.Meth. A440 (2000) 38-45**  
DOI: [10.1016/S0168-9002\(99\)00821-9](#), [10.1088/1126-6708/1999/09/022](#)  
e-Print: [physics/9904010](#) | [PDF](#)  
[Detailed record](#) - [Cited by 2 records](#)

13. **Studies of the response of the prototype CMS hadron calorimeter, including magnetic field effects, to pion, electron, and muon beams**  
[CMS HCAL](#) Collaboration ([V.V. Abramov](#), ..., L. Litov, *et al.*). Jul 2000. 89 pp.  
Published in **Nucl.Instrum.Meth. A457 (2001) 75-100**  
CMS-2000-003, CMS-NOTE-2000-003, UR-1593  
DOI: [10.1016/S0168-9002\(00\)00711-7](https://doi.org/10.1016/S0168-9002(00)00711-7)  
e-Print: [hep-ex/0007045](#) | [PDF](#)  
[Detailed record](#) - [Cited by 18 records](#)
14. **Application of neural networks for energy reconstruction**  
[J. Damgov](#), [L. Litov](#) ([Sofiya U.](#)). Dec 2000. 18 pp.  
Published in **Nucl.Instrum.Meth. A482 (2002) 776-788**  
CMS-NOTE-2000-066  
DOI: [10.1016/S0168-9002\(01\)01851-4](https://doi.org/10.1016/S0168-9002(01)01851-4)  
e-Print: [hep-ex/0012003](#) | [PDF](#)  
[Cited by 4 records](#)
15. **The cosmic rays quality test procedure for the CMS barrel resistive plate chambers**  
[M. Abbrescia](#), ..., L. Litov *et al.*. 2004. 6 pp.  
Published in **Nucl.Instrum.Meth. A533 (2004) 208-213**  
DOI: [10.1016/j.nima.2004.07.029](https://doi.org/10.1016/j.nima.2004.07.029)  
[Cited by 5 records](#)
16. **Production and test of one-third of barrel Resistive Plate Chambers of the CMS experiment at LHC**  
[M. Abbrescia](#), ..., L. Litov *et al.*. 2004. 4 pp.  
Published in **Nucl.Instrum.Meth. A535 (2004) 283-286**  
DOI: [10.1016/j.nima.2004.07.132](https://doi.org/10.1016/j.nima.2004.07.132)  
[Cited by 3 records](#)
17. **Beam Test of the First Production Forward RPC**  
[Yong Ban](#) ([Peking U.](#)), ..., L. Litov *et al.*. Jan 28, 2005.  
CMS-NOTE-2004-037, CERN-CMS-NOTE-2004-037
18. **Cosmic ray tests of double-gap resistive plate chambers for the CMS experiment**  
[M. Abbrescia](#), ..., L. Litov *et al.*. 2005. 11 pp.  
Published in **Nucl.Instrum.Meth. A550 (2005) 116-126**  
DOI: [10.1016/j.nima.2005.06.074](https://doi.org/10.1016/j.nima.2005.06.074)  
[Cited by 16 records](#)
19. CMS computing : Technical Design Report / [Bayatyan, G L](#), ..., L. Litov et al  
[CERN-LHCC-2005-023](#) ; [CMS-TDR-7](#). - Geneva : CERN, 2005. - 169 p. (Technical Design Report CMS ; 7)
20. **CMS Physics : Technical Design Report Volume 1: Detector Performance and Software**  
[CMS](#) Collaboration ([G. L. Bayatian](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov *et al.*). 2006. 521 pp.  
CERN-LHCC-2006-001, CMS-TDR-8-1  
[Cited by 392 records](#)

21. **Production and quality control of the barrel RPC chambers of the CMS experiment**  
[M. Abbrescia](#) ([Bari U.](#) & [INFN, Bari](#)), ..., L. Litov *et al.*. 2006. 5 pp.  
Published in **Nucl.Phys.Proc.Suppl. 150 (2006) 290-294**  
DOI: [10.1016/j.nuclphysbps.2004.11.389](https://doi.org/10.1016/j.nuclphysbps.2004.11.389)
  
22. **Design, performance and calibration of the CMS forward calorimeter wedges**  
[G. Bayatian](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov *et al.*. Feb 2006. 42 pp.  
Published in **Eur.Phys.J. C53 (2008) 139-166**  
CERN-CMS-NOTE-2006-044  
DOI: [10.1140/epic/s10052-007-0459-4](https://doi.org/10.1140/epic/s10052-007-0459-4)  
[Cited by 76 records](#)
  
23. **HF production in CMS-Resistive Plate Chambers**  
[M. Abbrescia](#) ([Bari U.](#) & [INFN, Bari](#)), ..., L. Litov *et al.*. 2006. 5 pp.  
Published in **Nucl.Phys.Proc.Suppl. 158 (2006) 30-34**  
DOI: [10.1016/j.nuclphysbps.2006.07.002](https://doi.org/10.1016/j.nuclphysbps.2006.07.002)  
[Cited by 7 records](#)
  
24. **Quality control tests for the CMS barrel RPCs**  
[M. Abbrescia](#), ..., L. Litov *et al.*. 2006. 5 pp.  
Published in **Nucl.Phys.Proc.Suppl. 158 (2006) 73-77**  
DOI: [10.1016/j.nuclphysbps.2006.08.051](https://doi.org/10.1016/j.nuclphysbps.2006.08.051)
  
25. **CMS physics technical design report: Addendum on high density QCD with heavy ions**  
[CMS](#) Collaboration ([David G. d'Enterria](#) (Ed.) ([CERN](#))), ..., L. Litov *et al.*. Mar 2007. 169 pp.  
Published in **J.Phys. G34 (2007) 2307-2455**  
CERN-LHCC-2007-009  
DOI: [10.1088/0954-3899/34/11/008](https://doi.org/10.1088/0954-3899/34/11/008)  
[Cited by 96 records](#)
  
26. **Energy Response and Longitudinal Shower Profiles Measured in CMS HCAL and Comparison With Geant4**  
[CMS HCAL](#) Collaboration ([G. Baatian](#), ..., L. Litov *et al.*). May 27, 2007. 21 pp.  
CERN-CMS-NOTE-2006-143, CMS-NOTE-2006-143  
[Cited by 14 records](#)
  
27. **Design, Performance, and Calibration of CMS Hadron-Barrel Calorimeter Wedges**  
[CMS HCAL](#) Collaboration ([G. Baatian](#), ..., L. Litov *et al.*). May 28, 2007. 23 pp.  
CERN-CMS-NOTE-2006-138, CMS-NOTE-2006-138  
[Cited by 16 records](#)
  
28. **CMS technical design report, volume II: Physics performance**  
[CMS](#) Collaboration ([G.L. Bayatian](#) ([Yerevan Phys. Inst.](#))), ..., L. Litov *et al.*. 2007. 585 pp.  
Published in **J.Phys. G34 (2007) no.6, 995-1579**  
CERN-LHCC-2006-021, CMS-TDR-008-2  
DOI: [10.1088/0954-3899/34/6/S01](https://doi.org/10.1088/0954-3899/34/6/S01)  
[Cited by 972 records](#)

29. **Design, performance, and calibration of CMS hadron endcap calorimeters**  
[CMS HCAL](#) Collaboration ([G. Baatian](#) ([Yerevan Phys. Inst.](#)) , ..., L. Litov [et al.](#)). Mar 2008. 36 pp.  
CERN-CMS-NOTE-2008-010  
[Cited by 10 records](#)
30. **The gas monitoring system for the resistive plate chamber detector of the CMS experiment at LHC**  
[M. Abbrescia](#) ([Bari U.](#) & [INFN, Bari](#)) , ..., L. Litov [et al.](#). 2008. 4 pp.  
Published in **Nucl.Phys.Proc.Suppl. 177-178 (2008) 293-296**  
DOI: [10.1016/j.nuclphysbps.2007.11.133](#)
31. **Design, performance, and calibration of CMS hadron-barrel calorimeter wedges**  
[CMS HCAL](#) Collaboration ([S. Abdullin](#) ([Maryland U.](#) & [Fermilab](#)) , ..., L. Litov [et al.](#)). 2008. 13 pp.  
Published in **Eur.Phys.J. C55 (2008) 159-171**  
FERMILAB-PUB-08-246-CMS  
DOI: [10.1140/epjc/s10052-008-0573-y](#)  
[Cited by 36 records](#)
32. **The CMS Experiment at the CERN LHC**  
[CMS](#) Collaboration ([S. Chatrchyan](#) ([Yerevan Phys. Inst.](#)) , ..., L. Litov [et al.](#)). Aug 2008. 361 pp.  
Published in **JINST 3 (2008) S08004**  
DOI: [10.1088/1748-0221/3/08/S08004](#)  
[Cited by 1632 records](#)
33. **First measurements of the performance of the barrel RPC system in CMS**  
[A. Colaleo](#) ([INFN, Bari](#)) , ..., L. Litov [et al.](#). Oct 2008. 15 pp.  
Published in **Nucl.Instrum.Meth. A609 (2009) 114-121**  
CERN-CMS-NOTE-2008-027  
DOI: [10.1016/j.nima.2009.07.099](#)  
[Cited by 5 records](#)
34. **Results about HF production and bakelite analysis for the CMS Resistive Plate Chambers**  
[M. Abbrescia](#) ([Bari U.](#) & [INFN, Bari](#)) , ..., L. Litov [et al.](#). 2008. 8 pp  
Published in **Nucl.Instrum.Meth. A594 (2008) 140-147**  
DOI: [10.1016/j.nima.2008.06.009](#)  
[Cited by 5 records](#)
35. **The CMS barrel calorimeter response to particle beams from 2-GeV/c to 350-GeV/c**  
[USCMS](#) and [ECAL/HCAL](#) Collaborations ([S. Abdullin](#) ([Moscow, ITEP](#)) , ..., L. Litov [et al.](#)). 2009. 15 pp.  
Published in **Eur.Phys.J. C60 (2009) 359-373, Erratum: Eur.Phys.J. C61 (2009) 353-356**  
FERMILAB-PUB-08-661-E-PPD, CERN-CMS-NOTE-2008-034  
DOI: [10.1140/epjc/s10052-009-1024-0](#), [10.1140/epjc/s10052-009-0959-5](#)  
[Cited by 45 records](#)

36. **The compact muon solenoid RPC barrel detector**  
[A. Colaleo \(INFN, Bari\)](#) , ..., L. Litov [et al.](#). 2009. 5 pp.  
Published in **Nucl.Instrum.Meth. A602 (2009) 674-678**  
DOI: [10.1016/j.nima.2008.12.234](https://doi.org/10.1016/j.nima.2008.12.234)
37. **Resistive plate chamber commissioning and performance in CMS**  
[G. Roselli \(Bari U. & INFN, Bari\)](#) , ..., L. Litov [et al.](#). 2009. 4 pp.  
Published in **Nucl.Instrum.Meth. A602 (2009) 696-699**  
DOI: [10.1016/j.nima.2008.12.092](https://doi.org/10.1016/j.nima.2008.12.092)
38. **A configurable tracking algorithm to detect cosmic muon tracks for the CMS-RPC based technical trigger**  
[R.T. Rajan \(INFN, Bari & Bari U.\)](#) , ..., L. Litov [et al.](#). 2009. 4 pp.  
Published in **Nucl.Instrum.Meth. A602 (2009) 792-795**  
DOI: [10.1016/j.nima.2008.12.226](https://doi.org/10.1016/j.nima.2008.12.226)  
[Cited by 1 record](#)
39. **Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays**  
[CMS Collaboration \(S Chatrchyan \(Yerevan Phys. Inst.\) , ..., L. Litov et al.\)](#). Oct 2009.  
35 pp.  
Published in **JINST 5 (2010) T03021**  
CMS-CFT-09-015  
DOI: [10.1088/1748-0221/5/03/T03021](https://doi.org/10.1088/1748-0221/5/03/T03021)  
[Cited by 27 records](#)
40. **Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons**  
[CMS Collaboration \(S Chatrchyan \(Yerevan Phys. Inst.\) , ..., L. Litov et al.\)](#). Nov 2009.  
41 pp.  
Published in **JINST 5 (2010) T03020**  
CMS-CFT-09-016  
DOI: [10.1088/1748-0221/5/03/T03020](https://doi.org/10.1088/1748-0221/5/03/T03020)  
e-Print: [arXiv:0911.4022](https://arxiv.org/abs/0911.4022) [physics.ins-det] | [PDF](#)  
[Cited by 6 records](#)
41. **Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays**  
[CMS Collaboration \(S Chatrchyan \(Yerevan Phys. Inst.\) , ..., L. Litov et al.\)](#). Nov 2009.  
33 pp.  
Published in **JINST 5 (2010) T03017**  
CMS-CFT-09-010  
DOI: [10.1088/1748-0221/5/03/T03017](https://doi.org/10.1088/1748-0221/5/03/T03017)  
e-Print: [arXiv:0911.4045](https://arxiv.org/abs/0911.4045) [physics.ins-det] | [PDF](#)  
[Cited by 6 records](#)
42. **Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla**  
[CMS Collaboration \(S Chatrchyan \(Yerevan Phys. Inst.\) , ..., L. Litov et al.\)](#). Nov 2009.  
37 pp.  
Published in **JINST 5 (2010) T03001**  
CMS-CFT-09-008  
DOI: [10.1088/1748-0221/5/03/T03001](https://doi.org/10.1088/1748-0221/5/03/T03001)  
e-Print: [arXiv:0911.4845](https://arxiv.org/abs/0911.4845) [physics.ins-det] | [PDF](#)

[Cited by 4 records](#)

43. **Performance of CMS Muon Reconstruction in Cosmic-Ray Events**  
[CMS](#) Collaboration ([S Chatrchyan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Nov 2009.  
47 pp.  
Published in **JINST 5 (2010) T03022**  
CMS-CFT-09-014  
DOI: [10.1088/1748-0221/5/03/T03022](https://doi.org/10.1088/1748-0221/5/03/T03022)  
e-Print: [arXiv:0911.4994](https://arxiv.org/abs/0911.4994) [physics.ins-det] | [PDF](#)  
[Cited by 33 records](#)
44. **The Large Hadron Collider: Expectations and reality**  
[Leandar Litov \(Sofiya U.\)](#). 2010. 8 pp.  
Published in **AIP Conf.Proc. 1203 (2010) 71-78**  
DOI: [10.1063/1.3322542](https://doi.org/10.1063/1.3322542)
45. **Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at  $\sqrt{s}=0.9$  s=0.9 and 2.36 TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Feb 2010. 31 pp.  
Published in **JHEP 1002 (2010) 041**  
CMS-QCD-09-010, CERN-PH-EP-2010-003  
DOI: [10.1007/JHEP02\(2010\)041](https://doi.org/10.1007/JHEP02(2010)041)  
e-Print: [arXiv:1002.0621](https://arxiv.org/abs/1002.0621) [hep-ex] | [PDF](#)  
[Cited by 255 records](#)
46. **Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at  $\sqrt{s}=7$  s=7 TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). May 2010. 26 pp.  
Published in **Phys.Rev.Lett. 105 (2010) 022002**  
CERN-PH-EP-2010-009, CMS-QCD-10-006  
DOI: [10.1103/PhysRevLett.105.022002](https://doi.org/10.1103/PhysRevLett.105.022002)  
e-Print: [arXiv:1005.3299](https://arxiv.org/abs/1005.3299) [hep-ex] | [PDF](#)  
[Cited by 338 records](#)
47. **Measurement of the charge ratio of atmospheric muons with the CMS detector**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). May 2010. 32 pp.  
Published in **Phys.Lett. B692 (2010) 83-104**  
CERN-PH-EP-2010-011, CMS-MUO-10-001  
DOI: [10.1016/j.physletb.2010.07.033](https://doi.org/10.1016/j.physletb.2010.07.033)  
e-Print: [arXiv:1005.5332](https://arxiv.org/abs/1005.5332) [hep-ex] | [PDF](#)  
[Cited by 33 records](#)
48. **Resistive plate chambers performance with cosmic rays in the CMS experiment**  
[D. Piccolo \(Frascati\)](#) , ..., L. Litov [et al.](#). 2010. 3 pp.  
Published in **Nucl.Instrum.Meth. A617 (2010) 180-182**  
DOI: [10.1016/j.nima.2009.06.092](https://doi.org/10.1016/j.nima.2009.06.092)
49. **Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC**

- [CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#)). Sep 2010.  
Published in **JHEP 1009 (2010) 091**  
CMS-QCD-10-002, CERN-PH-EP-2010-031  
DOI: [10.1007/JHEP09\(2010\)091](#)  
e-Print: [arXiv:1009.4122 \[hep-ex\]](#) | [PDF](#)  
[Cited by 503 records](#)
50. **Measurements of Inclusive  $W$   $W$  and  $Z$   $Z$  Cross Sections in  $pp$   $pp$  Collisions at  $\sqrt{s}=7$  s=7 TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#)). Dec 2010. 38 pp.  
Published in **JHEP 1101 (2011) 080**  
CERN-PH-EP-2010-050, CMS-EWK-10-002  
DOI: [10.1007/JHEP01\(2011\)080](#)  
e-Print: [arXiv:1012.2466 \[hep-ex\]](#) | [PDF](#)  
[Cited by 59 records](#)
51. **Upsilon Production Cross-Section in  $pp$  Collisions at  $\sqrt{s}=7$  sqrt=7 TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#)). Dec 2010.  
Published in **Phys.Rev. D83 (2011) 112004**  
CERN-PH-EP-2010-055, CMS-BPH-10-003  
DOI: [10.1103/PhysRevD.83.112004](#)  
e-Print: [arXiv:1012.5545 \[hep-ex\]](#) | [PDF](#)  
[Cited by 88 records](#)
52. **Search for Supersymmetry in  $pp$  Collisions at 7 TeV in Events with Jets and Missing Transverse Energy**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#)). Jan 2011. 23 pp.  
Published in **Phys.Lett. B698 (2011) 196-218**  
CERN-PH-EP-2010-084, CMS-SUS-10-003  
DOI: [10.1016/j.physletb.2011.03.021](#)  
e-Print: [arXiv:1101.1628 \[hep-ex\]](#) | [PDF](#)  
[Cited by 209 records](#)
53. **Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics**  
[CMS](#) Collaboration ([Serquei Chatrchyan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#)). Jun 2011. 28 pp.  
Published in **JHEP 1107 (2011) 098**  
CERN-PH-EP-2011-064, CMS-EXO-11-013  
DOI: [10.1007/JHEP07\(2011\)098](#)  
e-Print: [arXiv:1106.2375 \[hep-ex\]](#) | [PDF](#)  
[Cited by 27 records](#)
54. **Missing transverse energy performance of the CMS detector**  
[CMS](#) Collaboration ([Serquei Chatrchyan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#)). Jun 2011. 56 pp.  
Published in **JINST 6 (2011) P09001**



CERN-PH-EP-2011-051, CMS-JME-10-009  
DOI: [10.1088/1748-0221/6/09/P09001](https://doi.org/10.1088/1748-0221/6/09/P09001)  
e-Print: [arXiv:1106.5048](https://arxiv.org/abs/1106.5048) [physics.ins-det] | [PDF](#)  
[Cited by 74 records](#)

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

[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Jul 2011.  
Published in **JINST 6 (2011) P11002**  
CERN-PH-EP-2011-102, CMS-JME-10-011  
DOI: [10.1088/1748-0221/6/11/P11002](https://doi.org/10.1088/1748-0221/6/11/P11002)  
e-Print: [arXiv:1107.4277](https://arxiv.org/abs/1107.4277) [physics.ins-det] | [PDF](#)  
[Cited by 181 records](#)

56. **Measurement of the Inclusive  $W W$  and  $Z Z$  Production Cross Sections in  $pp$  Collisions at  $\sqrt{s}=7$  TeV**

[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Jul 2011. 68 pp.  
Published in **JHEP 1110 (2011) 132**  
CERN-PH-EP-2011-107, CMS-EWK-10-005  
DOI: [10.1007/JHEP10\(2011\)132](https://doi.org/10.1007/JHEP10(2011)132)  
e-Print: [arXiv:1107.4789](https://arxiv.org/abs/1107.4789) [hep-ex] | [PDF](#)  
[Cited by 93 records](#)

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

[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Nov 2011. 35 pp.  
Published in **JHEP 1201 (2012) 052**  
CERN-PH-EP-2011-187, CMS-FWD-10-005  
DOI: [10.1007/JHEP01\(2012\)052](https://doi.org/10.1007/JHEP01(2012)052)  
e-Print: [arXiv:1111.5536](https://arxiv.org/abs/1111.5536) [hep-ex] | [PDF](#)  
[Cited by 51 records](#)

58. **A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider**

[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). 2012. 7 16 pp.  
Published in **Science 338 (2012) 1569-1575**  
DOI: [10.1126/science.1230816](https://doi.org/10.1126/science.1230816)  
[Cited by 54 records](#) 50+

59. **Search for narrow resonances in dilepton mass spectra in  $pp$  collisions at  $\sqrt{s}=7$  TeV**

[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Jun 2012. 22 pp.  
Published in **Phys.Lett. B714 (2012) 158-179**  
CMS-EXO-11-019, CERN-PH-EP-2012-157  
DOI: [10.1016/j.physletb.2012.06.051](https://doi.org/10.1016/j.physletb.2012.06.051)  
e-Print: [arXiv:1206.1849](https://arxiv.org/abs/1206.1849) [hep-ex] | [PDF](#)  
[Cited by 94 records](#)

60. **Performance of CMS muon reconstruction in  $pp$   $pp$  collision events at  $s \sqrt{=7}$  s=7 TeV**  
[CMS](#) Collaboration ([Serguei Chatrchyan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Jun 2012.  
 Published in **JINST 7 (2012) P10002**  
 CMS-MUO-10-004, CERN-PH-EP-2012-173  
 DOI: [10.1088/1748-0221/7/10/P10002](https://doi.org/10.1088/1748-0221/7/10/P10002)  
 e-Print: [arXiv:1206.4071 \[physics.ins-det\]](#) | [PDF](#)  
[Cited by 139 records](#)
61. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**  
[CMS](#) Collaboration ([Serguei Chatrchyan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Jul 2012. 32 pp.  
 Published in **Phys.Lett. B716 (2012) 30-61**  
 CMS-HIG-12-028, CERN-PH-EP-2012-220  
 DOI: [10.1016/j.physletb.2012.08.021](https://doi.org/10.1016/j.physletb.2012.08.021)  
 e-Print: [arXiv:1207.7235 \[hep-ex\]](#) | [PDF](#)  
[Cited by 6754 records](#)
62. **CMS Resistive Plate Chamber overview, from the present system to the upgrade phase I**  
[P. Paolucci \(Naples U. & INFN, Naples\)](#) , ..., L. Litov [et al.](#). Sep 2012. 12 pp.  
 Published in **PoS RPC2012 (2012) 004, JINST 8 (2013) P04005**  
 DOI: [10.1088/1748-0221/8/04/P04005](https://doi.org/10.1088/1748-0221/8/04/P04005)  
 Conference: [C12-02-05](#), Conference: [C12-02-05](#), Conference: [C12-02-05 Proceedings](#)  
 e-Print: [arXiv:1209.1941 \[physics.ins-det\]](#) | [PDF](#)  
[Cited by 5 records](#)
63. **Uniformity and Stability of the CMS RPC Detector at the LHC**  
[S. Costantini \(Gent U.\)](#) , ..., L. Litov [et al.](#). Sep 2012.  
 Published in **PoS RPC2012 (2012) 005, JINST 8 (2013) P03017**  
 DOI: [10.1088/1748-0221/8/03/P03017](https://doi.org/10.1088/1748-0221/8/03/P03017)  
 Conference: [C12-02-05](#), Conference: [C12-02-05](#), Conference: [C12-02-05 Proceedings](#)  
 e-Print: [arXiv:1209.1989 \[physics.ins-det\]](#) | [PDF](#)  
[Cited by 2 records](#)
64. **Search for a narrow spin-2 resonance decaying to a pair of Z vector bosons in the semileptonic final state**  
[CMS](#) Collaboration ([Serguei Chatrchyan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Sep 2012. 31 pp.  
 Published in **Phys.Lett. B718 (2013) 1208-1228**  
 CMS-EXO-11-102, CERN-PH-EP-2012-232  
 DOI: [10.1016/j.physletb.2012.11.063](https://doi.org/10.1016/j.physletb.2012.11.063)  
 e-Print: [arXiv:1209.3807 \[hep-ex\]](#) | [PDF](#)  
[Cited by 8 records](#)
65. **Search for  $Z Z'$  resonances decaying to  $t\bar{t}$   $t\bar{t}$  in dilepton+jets final states in  $pp$   $pp$  collisions at  $s \sqrt{=7}$  s=7 TeV**  
[CMS](#) Collaboration ([Serguei Chatrchyan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Nov

2012. 18 pp.  
Published in **Phys.Rev. D87 (2013) no.7, 072002**  
CMS-TOP-11-010, CERN-PH-EP-2012-324  
DOI: [10.1103/PhysRevD.87.072002](https://doi.org/10.1103/PhysRevD.87.072002)  
e-Print: [arXiv:1211.3338](https://arxiv.org/abs/1211.3338) [hep-ex] | [PDF](#)  
[Cited by 46 records](#)

66. **Multigap RPC for PET: development and optimisation of the detector design**  
[Georgi Georgiev](#), [Nevena Ilieva](#), [Venelin Kozhuharov](#), [Iglika Lessigiarska](#), [Leandar Litov](#),  
[Borislav Pavlov](#), [Peicho Petkov](#). Dec 2012.  
Published in **JINST 8 (2013) P01011**  
DOI: [10.1088/1748-0221/8/11/P11011](https://doi.org/10.1088/1748-0221/8/11/P11011), [10.1088/1748-0221/8/01/P01011](https://doi.org/10.1088/1748-0221/8/01/P01011)  
Conference: [C12-02-05 Proceedings](#)  
e-Print: [arXiv:1212.5551](https://arxiv.org/abs/1212.5551) [physics.ins-det] | [PDF](#)  
[Cited by 3 records](#)
67. **Search for heavy narrow dilepton resonances in  $pp$  collisions at  $\sqrt{s} = 7$  and  $\sqrt{s} = 8$  TeV**  
[CMS Collaboration](#) ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Dec 2012. 27 pp.  
Published in **Phys.Lett. B720 (2013) 63-82**  
CMS-EXO-12-015, CERN-PH-EP-2012-364  
DOI: [10.1016/j.physletb.2013.02.003](https://doi.org/10.1016/j.physletb.2013.02.003)  
e-Print: [arXiv:1212.6175](https://arxiv.org/abs/1212.6175) [hep-ex] | [PDF](#)  
[Cited by 114 records](#)
68. **Study of the Mass and Spin-Parity of the Higgs Boson Candidate Via Its Decays to Z Boson Pairs**  
[CMS Collaboration](#) ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Dec 2012. 15 pp.  
Published in **Phys.Rev.Lett. 110 (2013) no.8, 081803**  
CMS-HIG-12-041, CERN-PH-EP-2012-372  
DOI: [10.1103/PhysRevLett.110.081803](https://doi.org/10.1103/PhysRevLett.110.081803)  
e-Print: [arXiv:1212.6639](https://arxiv.org/abs/1212.6639) [hep-ex] | [PDF](#)  
[Cited by 283 records](#)
69. **Measurement of W+W- and ZZ production cross sections in pp collisions at  $\sqrt{s} = 8$  TeV**  
[CMS Collaboration](#) ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Jan 20, 2013. 29 pp.  
Published in **Phys.Lett. B721 (2013) 190-211**  
CMS-SMP-12-024, CERN-PH-EP-2012-376  
DOI: [10.1016/j.physletb.2013.03.027](https://doi.org/10.1016/j.physletb.2013.03.027)  
e-Print: [arXiv:1301.4698](https://arxiv.org/abs/1301.4698) [hep-ex] | [PDF](#)  
[Cited by 88 records](#)
70. **Observation of a new boson with mass near 125 GeV in pp collisions at  $\sqrt{s} = 7$  and 8 TeV**  
[CMS Collaboration](#) ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Mar 19, 2013. 117 pp.  
Published in **JHEP 1306 (2013) 081**

CMS-HIG-12-036, CERN-PH-EP-2013-035  
DOI: [10.1007/JHEP06\(2013\)081](https://doi.org/10.1007/JHEP06(2013)081)  
e-Print: [arXiv:1303.4571](https://arxiv.org/abs/1303.4571) [hep-ex] | [PDF](#)  
[Cited by 339 records](#)

71. **Study of exclusive two-photon production of  $W + W -$  in  $pp$  collisions at  $\sqrt{s} = 7$  TeV and constraints on anomalous quartic gauge couplings**  
[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). May 23, 2013. 37 pp.  
Published in **JHEP 1307 (2013) 116**  
CMS-FSQ-12-010, CERN-PH-EP-2013-084  
DOI: [10.1007/JHEP07\(2013\)116](https://doi.org/10.1007/JHEP07(2013)116)  
e-Print: [arXiv:1305.5596](https://arxiv.org/abs/1305.5596) [hep-ex] | [PDF](#)  
[Cited by 75 records](#)
72. **The performance of the CMS muon detector in proton-proton collisions at  $\sqrt{s} = 7$  TeV at the LHC**  
[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Jun 28, 2013. 101 pp.  
Published in **JINST 8 (2013) P11002**  
CMS-MUO-11-001, CERN-PH-EP-2013-072  
DOI: [10.1088/1748-0221/8/11/P11002](https://doi.org/10.1088/1748-0221/8/11/P11002)  
e-Print: [arXiv:1306.6905](https://arxiv.org/abs/1306.6905) [physics.ins-det] | [PDF](#)  
[Cited by 36 records](#)
73. **Measurement of the  $B(s)$  to  $\mu^+ \mu^-$  branching fraction and search for  $B_0$  to  $\mu^+ \mu^-$  with the CMS Experiment**  
[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Jul 18, 2013. 17 pp.  
Published in **Phys.Rev.Lett. 111 (2013) 101804**  
CMS-BPH-13-004, CERN-PH-EP-2013-129  
DOI: [10.1103/PhysRevLett.111.101804](https://doi.org/10.1103/PhysRevLett.111.101804)  
e-Print: [arXiv:1307.5025](https://arxiv.org/abs/1307.5025) [hep-ex] | [PDF](#)  
[Cited by 304 records](#)
74. **Search for the standard model Higgs boson produced in association with a  $W$  or a  $Z$  boson and decaying to bottom quarks**  
[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Oct 14, 2013. 36 pp.  
Published in **Phys.Rev. D89 (2014) no.1, 012003**  
CMS-HIG-13-012, CERN-PH-EP-2013-188  
DOI: [10.1103/PhysRevD.89.012003](https://doi.org/10.1103/PhysRevD.89.012003)  
e-Print: [arXiv:1310.3687](https://arxiv.org/abs/1310.3687) [hep-ex] | [PDF](#)  
[Cited by 197 records](#)
75. **Measurement of Higgs boson production and properties in the  $WW$  decay channel with leptonic final states**  
[CMS](#) Collaboration ([Serquei Chatrchyan](#) ([Yerevan Phys. Inst.](#)), ..., L. Litov [et al.](#)). Dec 4, 2013. 86 pp.  
Published in **JHEP 1401 (2014) 096**  
CMS-HIG-13-023, CERN-PH-EP-2013-221

DOI: [10.1007/JHEP01\(2014\)096](https://doi.org/10.1007/JHEP01(2014)096)  
e-Print: [arXiv:1312.1129](https://arxiv.org/abs/1312.1129) [hep-ex] | [PDF](#)  
[Cited by 220 records](#)

76. **Measurement of the properties of a Higgs boson in the four-lepton final state**  
[CMS](#) Collaboration ([Sergei Chatrchyan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Dec 18, 2013. 45 pp.  
Published in **Phys.Rev. D89 (2014) no.9, 092007**  
CMS-HIG-13-002, CERN-PH-EP-2013-220  
DOI: [10.1103/PhysRevD.89.092007](https://doi.org/10.1103/PhysRevD.89.092007)  
e-Print: [arXiv:1312.5353](https://arxiv.org/abs/1312.5353) [hep-ex] | [PDF](#)  
[Cited by 344 records](#)
77. **Radiation background with the CMS RPCs at the LHC**  
[CMS](#) Collaboration ([Silvia Costantini \(Gent U.\)](#) , ..., L. Litov [et al.](#)). Jun 11, 2014. 9 pp.  
Published in **JINST 10 (2015) no.05, C05031**  
DOI: [10.1088/1748-0221/10/05/C05031](https://doi.org/10.1088/1748-0221/10/05/C05031)  
Conference: [C14-02-23.2 Proceedings](#)  
e-Print: [arXiv:1406.2859](https://arxiv.org/abs/1406.2859) [physics.ins-det] | [PDF](#)  
[Cited by 2 records](#)
78. **CMS RPC muon detector performance with 2010-2012 LHC data**  
[CMS](#) Collaboration ([G. Pugliese \(Bari U. & INFN, Bari\)](#) , ..., L. Litov [et al.](#)). Jun 29, 2014. 7 pp.  
Published in **JINST 9 (2014) no.12, C12016**  
DOI: [10.1088/1748-0221/9/12/C12016](https://doi.org/10.1088/1748-0221/9/12/C12016)  
Conference: [C14-02-23.2 Proceedings](#)  
e-Print: [arXiv:1406.7543](https://arxiv.org/abs/1406.7543) [physics.ins-det] | [PDF](#)
79. **Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). May 14, 2014. 22 pp.  
Published in **Phys.Lett. B736 (2014) 64-85**  
CMS-HIG-14-002, CERN-PH-EP-2014-078  
DOI: [10.1016/j.physletb.2014.06.077](https://doi.org/10.1016/j.physletb.2014.06.077)  
e-Print: [arXiv:1405.3455](https://arxiv.org/abs/1405.3455) [hep-ex] | [PDF](#)  
[Cited by 136 records](#)
80. **Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#) , ..., L. Litov [et al.](#)). Nov 12, 2014. 55 pp.  
Published in **Phys.Rev. D92 (2015) no.1, 012004**  
CMS-HIG-14-018, CERN-PH-EP-2014-265  
DOI: [10.1103/PhysRevD.92.012004](https://doi.org/10.1103/PhysRevD.92.012004)  
e-Print: [arXiv:1411.3441](https://arxiv.org/abs/1411.3441) [hep-ex] | [PDF](#)  
[Cited by 196 records](#)
81. **Observation of the rare  $B^0 s \rightarrow \mu^+ \mu^-$   $B_s^0 \rightarrow \mu^+ \mu^-$  decay from the combined analysis of CMS and LHCb data**

[CMS](#) and [LHCb](#) Collaborations ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#), ..., L. Litov [et al.](#)). Nov 17, 2014. 46 pp.  
Published in **Nature 522 (2015) 68-72**  
CERN-PH-EP-2014-220, CMS-BPH-13-007, LHCB-PAPER-2014-049  
DOI: [10.1038/nature14474](https://doi.org/10.1038/nature14474)  
e-Print: [arXiv:1411.4413 \[hep-ex\]](#) | [PDF](#)  
[Cited by 270 records](#)

82. **Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at  $\sqrt{s}=8$  TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#), ..., L. Litov [et al.](#)). Dec 19, 2014. 47 pp.  
Published in **JHEP 1504 (2015) 025**  
CMS-EXO-12-061, CERN-PH-EP-2014-272  
DOI: [10.1007/JHEP04\(2015\)025](https://doi.org/10.1007/JHEP04(2015)025)  
e-Print: [arXiv:1412.6302 \[hep-ex\]](#) | [PDF](#)  
[Cited by 155 records](#)
83. **Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#), ..., L. Litov [et al.](#)). Dec 30, 2014. 75 pp.  
Published in **Eur.Phys.J. C75 (2015) no.5, 212**  
CMS-HIG-14-009, CERN-PH-EP-2014-288  
DOI: [10.1140/epjc/s10052-015-3351-7](https://doi.org/10.1140/epjc/s10052-015-3351-7)  
e-Print: [arXiv:1412.8662 \[hep-ex\]](#) | [PDF](#)  
[Cited by 477 records](#)
84. **Search for Lepton-Flavour-Violating Decays of the Higgs Boson**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#), ..., L. Litov [et al.](#)). Feb 25, 2015. 26 pp.  
Published in **Phys.Lett. B749 (2015) 337-362**  
CMS-HIG-14-005, CERN-PH-EP-2015-027  
DOI: [10.1016/j.physletb.2015.07.053](https://doi.org/10.1016/j.physletb.2015.07.053)  
e-Print: [arXiv:1502.07400 \[hep-ex\]](#) | [PDF](#)  
[Cited by 218 records](#)
85. **Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at  $\sqrt{s}=7$  and 8 TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#), ..., L. Litov [et al.](#)). Dec 28, 2015. 42 pp.  
Published in **JHEP 1604 (2016) 005**  
CMS-HIG-14-028, CERN-PH-EP-2015-285  
DOI: [10.1007/JHEP04\(2016\)005](https://doi.org/10.1007/JHEP04(2016)005)  
e-Print: [arXiv:1512.08377 \[hep-ex\]](#) | [PDF](#)  
[Cited by 29 records](#)
86. **Radiation tests of real-sized prototype RPCs for the Phase-2 Upgrade of the CMS Muon System**

[K.S. Lee \(Korea U.\)](#), ..., L. Litov [et al.](#). May 2, 2016. 10 pp.  
Published in **JINST 11 (2016) no.08, C08008**  
DOI: [10.1088/1748-0221/11/08/C08008](https://doi.org/10.1088/1748-0221/11/08/C08008)  
Conference: [C16-02-22.3 Proceedings](#)  
e-Print: [arXiv:1605.00440](https://arxiv.org/abs/1605.00440) [physics.ins-det] | [PDF](#)

87. **Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at  $\sqrt{s}=7$  and 8 TeV**

[ATLAS](#) and [CMS](#) Collaborations ([Georges Aad \(Marseille, CPPM\)](#)), ..., L. Litov [et al.](#).  
Jun 7, 2016. 70 pp.  
Published in **JHEP 1608 (2016) 045**  
CERN-EP-2016-100, ATLAS-HIGG-2015-07, CMS-HIG-15-002  
DOI: [10.1007/JHEP08\(2016\)045](https://doi.org/10.1007/JHEP08(2016)045)  
e-Print: [arXiv:1606.02266](https://arxiv.org/abs/1606.02266) [hep-ex] | [PDF](#)  
[Cited by 362 records](#)

88. **R&D towards the CMS RPC Phase-2 upgrade**

[A. Faqot \(Gent U.\)](#), ..., L. Litov [et al.](#). Jun 14, 2016. 12 pp.  
Published in **JINST 11 (2016) no.09, C09017**  
CMS-CR-2016-120  
DOI: [10.1088/1748-0221/11/09/C09017](https://doi.org/10.1088/1748-0221/11/09/C09017)

89. **Search for narrow resonances in dilepton mass spectra in proton-proton collisions at  $\sqrt{s}=13$  TeV and combination with 8 TeV data**

[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Sep 17, 2016. 24 pp.  
Published in **Phys.Lett. B768 (2017) 57-80**  
CMS-EXO-15-005, CERN-EP-2016-209, FERMILAB-PUB-16-491-CMS  
DOI: [10.1016/j.physletb.2017.02.010](https://doi.org/10.1016/j.physletb.2017.02.010)  
e-Print: [arXiv:1609.05391](https://arxiv.org/abs/1609.05391) [hep-ex] | [PDF](#)  
[Cited by 36 records](#)

90. **Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at  $\sqrt{s}=13$  TeV**

[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Nov 20, 2016. 32 pp.  
Published in **JHEP 1702 (2017) 048**  
CMS-EXO-16-008, CERN-EP-2016-273  
DOI: [10.1007/JHEP02\(2017\)048](https://doi.org/10.1007/JHEP02(2017)048)  
e-Print: [arXiv:1611.06594](https://arxiv.org/abs/1611.06594) [hep-ex] | [PDF](#)  
[Cited by 9 records](#)

91. **Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at  $\sqrt{s}=13$  TeV**

[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Dec 29, 2016. 52 pp.  
Published in **JHEP 1703 (2017) 162**  
CMS-B2G-16-004, CERN-EP-2016-296  
DOI: [10.1007/JHEP03\(2017\)162](https://doi.org/10.1007/JHEP03(2017)162)  
e-Print: [arXiv:1612.09159](https://arxiv.org/abs/1612.09159) [hep-ex] | [PDF](#)

[Cited by 14 records](#)

92. **Search for leptophobic Z' bosons decaying into four-lepton final states in proton–proton collisions at  $\sqrt{s}=8\text{TeV}$**   
[CMS](#) Collaboration ([V. Khachatryan](#), ..., L. Litov *et al.*). Jan 5, 2017. 22 pp.  
Published in **Phys.Lett. B773 (2017) 563-584**  
CMS-EXO-14-006, CERN-EP-2016-295  
DOI: [10.1016/j.physletb.2017.08.069](https://doi.org/10.1016/j.physletb.2017.08.069)  
e-Print: [arXiv:1701.01345 \[hep-ex\]](#) | [PDF](#)  
[Cited by 4 records](#)
93. **Search for new phenomena with multiple charged leptons in proton–proton collisions at  $\sqrt{s}=13\text{TeV}$**   
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#), ..., L. Litov *et al.*). Jan 24, 2017. 38 pp.  
Published in **Eur.Phys.J. C77 (2017) no.9, 635**  
CMS-SUS-16-003, CERN-EP-2016-306  
DOI: [10.1140/epjc/s10052-017-5182-1](https://doi.org/10.1140/epjc/s10052-017-5182-1)  
e-Print: [arXiv:1701.06940 \[hep-ex\]](#) | [PDF](#)  
[Cited by 6 records](#)
94. **Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton–proton collisions at  $\sqrt{s}=13\text{TeV}$**   
[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#), ..., L. Litov *et al.*). Apr 24, 2017. 42 pp.  
Published in **Eur.Phys.J. C77 (2017) no.9, 578**  
CMS-SUS-16-035, CERN-EP-2017-071  
DOI: [10.1140/epjc/s10052-017-5079-z](https://doi.org/10.1140/epjc/s10052-017-5079-z)  
e-Print: [arXiv:1704.07323 \[hep-ex\]](#) | [PDF](#)  
[Cited by 8 records](#)
95. **Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton–proton collisions at  $\sqrt{s}=8$  and 13 TeV**  
[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#), ..., L. Litov *et al.*). May 25, 2017. 26 pp.  
Published in **Phys.Lett. B774 (2017) 533-558**  
CMS-B2G-16-007, CERN-EP-2017-077  
DOI: [10.1016/j.physletb.2017.09.083](https://doi.org/10.1016/j.physletb.2017.09.083)  
e-Print: [arXiv:1705.09171 \[hep-ex\]](#) | [PDF](#)  
[Cited by 10 records](#)
96. **Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at  $\sqrt{s}=13\text{TeV}$**   
[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#), ..., L. Litov *et al.*). Jun 29, 2017. 55 pp.  
Published in **JHEP 1711 (2017) 047**  
CMS-HIG-16-041, CERN-EP-2017-123  
DOI: [10.1007/JHEP11\(2017\)047](https://doi.org/10.1007/JHEP11(2017)047)  
e-Print: [arXiv:1706.09936 \[hep-ex\]](#) | [PDF](#)  
[Cited by 17 records](#)



97. **Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**  
[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Jul 3, 2017. 24 pp.  
 Published in **Phys.Lett. B775 (2017) 1-24**  
 CMS-HIG-17-011, CERN-EP-2017-143  
 DOI: [10.1016/j.physletb.2017.10.021](#)  
 e-Print: [arXiv:1707.00541 \[hep-ex\]](#) | [PDF](#)  
[Cited by 4 records](#)
98. **Observation of the Higgs boson decay to a pair of tau leptons**  
[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Aug 1, 2017. 50 pp.  
 CMS-HIG-16-043, CERN-EP-2017-181  
 e-Print: [arXiv:1708.00373 \[hep-ex\]](#) | [PDF](#)  
[Cited by 17 records](#)
99. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at  $\sqrt{s} = 13$  TeV**  
[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Aug 26, 2017. 17 pp.  
 Published in **Phys.Rev.Lett. 119 (2017) no.22, 221802**  
 CMS-EXO-17-006, CERN-EP-2017-194  
 DOI: [10.1103/PhysRevLett.119.221802](#)  
 e-Print: [arXiv:1708.07962 \[hep-ex\]](#) | [PDF](#)  
[Cited by 5 records](#)
100. **Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
[CMS](#) Collaboration ([Albert M Sirunyan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Jan 8, 2017. 42 pp.  
 Published in **JHEP 1703 (2017) 061**, Erratum: **JHEP 1709 (2017) 106**  
 CMS-EXO-16-010, CERN-EP-2016-309  
 DOI: [10.1007/JHEP03\(2017\)061](#), [10.1007/JHEP01\(2018\)056](#), [10.1007/JHEP09\(2017\)106](#)  
 e-Print: [arXiv:1701.02042 \[hep-ex\]](#) | [PDF](#)  
[Cited by 14 records](#)
101. **Search for heavy gauge W' boson in events with an energetic lepton and large missing transverse momentum at  $\sqrt{s} = 13$  TeV**  
[CMS](#) Collaboration ([Vardan Khachatryan \(Yerevan Phys. Inst.\)](#)), ..., L. Litov [et al.](#). Dec 29, 2016. 24 pp.  
 Published in **Phys.Lett. B770 (2017) 278-301**  
 CMS-EXO-15-006, CERN-EP-2016-281  
 DOI: [10.1016/j.physletb.2017.04.043](#)  
 e-Print: [arXiv:1612.09274 \[hep-ex\]](#) | [PDF](#)  
[Cited by 14 records](#)