

# David Sanders' Publications

1. **“Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1402.4770 [hep-ex]
2. **“Measurements of the  $t\bar{t}$  charge asymmetry using the dilepton decay channel in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1402.3803 [hep-ex]
3. **“Search for  $W$  to  $t\bar{b}$  decays in the lepton + jets final state in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1402.2176 [hep-ex]
4. **“Measurement of the production cross sections for a  $Z$  boson and one or more  $b$  jets in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1402.1521 [hep-ex]
5. **“Measurement of inclusive  $W$  and  $Z$  boson production cross sections in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1402.0923 [hep-ex]
6. **“Evidence for the direct decay of the 125 GeV Higgs boson to fermions”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1401.6527 [hep-ex]
7. **“Evidence for the 125 GeV Higgs boson decaying to a pair of  $\tau$  leptons”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1401.5041 [hep-ex]
8. **“Studies of dijet pseudorapidity distributions and transverse momentum balance in pPb collisions at  $\sqrt{s_{NN}}=5.02$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1401.4433 [nucl-ex]
9. **“Observation of the associated production of a single top quark and a  $W$  boson in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1401.2942 [hep-ex]
10. **“Measurement of the  $t\bar{t}$  production cross section in the dilepton channel in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.7582 [hep-ex]  
10.1007/JHEP02(2014)024  
JHEP **1402**, 024 (2014)

11. **“Measurement of the production cross section for a W boson and two b jets in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.6608 [hep-ex]
12. **“Measurement of four-jet production in proton-proton collisions at  $\sqrt{s}=7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.6440 [hep-ex]
13. **“Event activity dependence of Y(nS) production in sqrt(s[NN])=5.02 TeV pPb and sqrt(s)=2.76 TeV pp collisions”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.6300 [nucl-ex]
14. **“Measurement of the muon charge asymmetry in inclusive pp  $\rightarrow$  W + X production at  $\sqrt{s}=7$  TeV and an improved determination of light parton distribution functions”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.6283 [hep-ex]
15. **“Study of double parton scattering using W + 2-jet events in proton-proton collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.5729 [hep-ex]
16. **“Measurement of the properties of a Higgs boson in the four-lepton final state”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.5353 [hep-ex]
17. **“Evidence of b-jet quenching in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.4198 [nucl-ex]
18. **“Search for flavor-changing neutral currents in top-quark decays  $t \rightarrow Zq$  in pp collisions at  $\sqrt{s}=8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.4194 [hep-ex]
19. **“Search for stop and higgsino production using diphoton Higgs boson decays”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.3310 [hep-ex]
20. **“Search for top-quark partners with charge 5/3 in the same-sign dilepton final state”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.2391 [hep-ex]
21. **“Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at sqrt(s[NN]) = 2.76 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.1845 [nucl-ex]  
10.1007/JHEP02(2014)088  
JHEP **02**, 088 (2014)
22. **“Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1312.1129 [hep-ex]  
10.1007/JHEP01(2014)096  
JHEP **1401**, 096 (2014)
23. **“Inclusive search for a vector-like T quark with charge  $\frac{2}{3}$  in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].

- arXiv:1311.7667 [hep-ex]  
10.1016/j.physletb.2014.01.006  
Phys. Lett. B **729**, 149 (2014)
24. **“Search for new physics in events with same-sign dileptons and jets in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1311.6736, arXiv:1311.6736 [hep-ex]  
10.1007/JHEP01(2014)163  
JHEP **1401**, 163 (2014)
  25. **“Measurement of the triple-differential cross section for photon+jets production in proton-proton collisions at  $\sqrt{s}=7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1311.6141 [hep-ex]
  26. **“Probing color coherence effects in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1311.5815 [hep-ex]
  27. **“Search for pair production of excited top quarks in the lepton+jets final state”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1311.5357 [hep-ex]
  28. **“Search for supersymmetry in pp collisions at  $\sqrt{s} = 8$  TeV in events with a single lepton, large jet multiplicity, and multiple b jets”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1311.4937 [hep-ex]
  29. **“Measurements of  $t\bar{t}$  spin correlations and top-quark polarization using dilepton final states in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1311.3924 [hep-ex]
  30. **“Searches for light- and heavy-flavour three-jet resonances in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1311.1799 [hep-ex]  
10.1016/j.physletb.2014.01.049  
Phys. Lett. B **730**, 193 (2014)
  31. **“Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at a nucleon-nucleon center-of-mass energy of 2.76 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.8651 [nucl-ex]
  32. **“Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.7291 [hep-ex]  
10.1007/JHEP12(2013)030  
JHEP **1312**, 030 (2013)
  33. **“Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.4554 [hep-ex]  
10.1140/epjc/s10052-013-2674-5  
Eur. Phys. J. C **73**, 2674 (2013)

34. **“Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.3687 [hep-ex]  
10.1103/PhysRevD.89.012003  
Phys. Rev. D **89**, 012003 (2014)
35. **“Rapidity distributions in exclusive Z + jet and  $\gamma$  + jet events in pp collisions at  $\sqrt{s}=7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.3082 [hep-ex]  
10.1103/PhysRevD.88.112009  
Phys. Rev. D **88**, 112009 (2013)
36. **“Characterisation of the muon beams for the Muon Ionisation Cooling Experiment”**  
D. Adams *et al.* [MICE Collaboration].  
arXiv:1306.1509 [physics.acc-ph]  
10.1140/epjc/s10052-013-2582-8  
Eur. Phys. J. C **73**, 2582 (2013)
37. **“Search for baryon number violation in top quark decays”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.1618 [hep-ex]
38. **“Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.1349 [hep-ex]  
10.1007/JHEP12(2013)039  
JHEP **1312**, 039 (2013)
39. **“Measurement of associated W + charm production in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.1138 [hep-ex]  
10.1007/JHEP02(2014)013  
JHEP **02**, 013 (2014)
40. **“Modification of jet shapes in PbPb collisions at  $\sqrt{s}[\text{NN}] = 2.76$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1310.0878 [nucl-ex]  
10.1016/j.physletb.2014.01.042  
Phys. Lett. B **730**, 243 (2014)
41. **“Observation of a peaking structure in the  $J/\psi\phi$  mass spectrum from  $B^\pm \rightarrow J/\psi\phi K^\pm$  decays”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1309.6920 [hep-ex]
42. **“Searches for new physics using the  $t\bar{t}$  invariant mass distribution in pp collisions at  $\sqrt{s}=8\text{TeV}$ ”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1309.2030 [hep-ex]  
10.1103/PhysRevLett.111.211804  
Phys. Rev. Lett. **111**, 211804 (2013)
43. **“Measurement of the production cross section for  $Z\gamma \rightarrow \nu\bar{\nu}\gamma$  in pp collisions at  $\sqrt{s} = 7$  TeV and limits on  $ZZ\gamma$  and  $Z\gamma\gamma$  triple gauge boson couplings”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1309.1117 [hep-ex]  
10.1007/JHEP10(2013)164  
JHEP **1310**, 164 (2013)

44. **“Search for a new bottomonium state decaying to  $\Upsilon(1S)\pi^+\pi^-$  in pp collisions at  $\sqrt{s} = 8$  TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1309.0250 [hep-ex]  
 10.1016/j.physletb.2013.10.016  
 Phys. Lett. B **727**, 57 (2013)
45. **“Measurement of the  $W\gamma$  and  $Z\gamma$  inclusive cross sections in pp collisions at  $\sqrt{s} = 7$  TeV and limits on anomalous triple gauge boson couplings”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1308.6832 [hep-ex]
46. **“Measurement of the W-boson helicity in top-quark decays from  $t\bar{t}$  production in lepton+jets events in pp collisions at  $\sqrt{s} = 7$  TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1308.3879 [hep-ex]  
 10.1007/JHEP10(2013)167  
 JHEP **1310**, 167 (2013)
47. **“Angular analysis and branching fraction measurement of the decay  $B^0 \rightarrow K^{*0}\mu^+\mu^-$ ”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1308.3409 [hep-ex]  
 10.1016/j.physletb.2013.10.017  
 Phys. Lett. B **727**, 77 (2013)
48. **“Search for top-squark pair production in the single-lepton final state in pp collisions at  $\sqrt{s} = 8$  TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1308.1586 [hep-ex]  
 10.1140/epjc/s10052-013-2677-2  
 Eur. Phys. J. C **73**, 2677 (2013)
49. **“Measurement of the prompt  $J/\psi$  and  $\psi(2S)$  polarizations in pp collisions at  $\sqrt{s} = 7$  TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1307.6070 [hep-ex]  
 10.1016/j.physletb.2013.10.055  
 Phys. Lett. B **727**, 381 (2013)
50. **“Search for a Higgs boson decaying into a Z and a photon in pp collisions at  $\sqrt{s} = 7$  and 8 TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1307.5515 [hep-ex]  
 10.1016/j.physletb.2013.09.057  
 Phys. Lett. B **726**, 587 (2013)
51. **“Measurement of the B(s) to  $\mu^+\mu^-$  branching fraction and search for B0 to  $\mu^+\mu^-$  with the CMS Experiment”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1307.5025 [hep-ex]  
 10.1103/PhysRevLett.111.101804  
 Phys. Rev. Lett. **111**, 101804 (2013)
52. **“Measurement of the top-quark mass in all-jets  $t\bar{t}$  events in pp collisions at  $\sqrt{s}=7$  TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1307.4617
53. **“Study of the production of charged pions, kaons, and protons in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1307.3442

54. **“Determination of the top-quark pole mass and strong coupling constant from the  $t\bar{t}$  production cross section in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1307.1907 [hep-ex]  
10.1016/j.physletb.2013.12.009  
Phys. Lett. B **728**, 496 (2014)
55. **“The performance of the CMS muon detector in proton-proton collisions at  $\sqrt{s} = 7$  TeV at the LHC”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1306.6905 [physics.ins-det]  
10.1088/1748-0221/8/11/P11002  
JINST **8**, P11002 (2013)
56. **“Search for top squarks in R-parity-violating supersymmetry using three or more leptons and b-tagged jets”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1306.6643 [hep-ex]  
10.1103/PhysRevLett.111.221801  
Phys. Rev. Lett. **111**, 221801 (2013)
57. **“Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at  $s = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1306.2016 [hep-ex]  
10.1088/1748-0221/8/09/P09009  
JINST **8**, P09009 (2013)
58. **“Measurement of the  $W^+W^-$  Cross section in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV and Limits on Anomalous  $WW\gamma$  and  $WWZ$  couplings”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1306.1126 [hep-ex]  
10.1140/epjc/s10052-013-2610-8  
Eur. Phys. J. C **73**, 2610 (2013)
59. **“Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1305.7389 [hep-ex]  
10.1007/JHEP10(2013)062  
JHEP **1310**, 101 (2013)
60. **“Measurement of neutral strange particle production in the underlying event in proton-proton collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1305.6016 [hep-ex]  
10.1103/PhysRevD.88.052001  
Phys. Rev. D **88**, 052001 (2013)
61. **“Study of exclusive two-photon production of  $W^+W^-$  in  $pp$  collisions at  $\sqrt{s} = 7$  TeV and constraints on anomalous quartic gauge couplings”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1305.5596 [hep-ex]  
10.1007/JHEP07(2013)116  
JHEP **1307**, 116 (2013)
62. **“The BABAR Detector: Upgrades, Operation and Performance”**  
B. Aubert *et al.* [BABAR Collaboration].  
arXiv:1305.3560 [physics.ins-det]

- 10.1016/j.nima.2013.05.107  
Nucl. Instrum. Meth. A **729**, 615 (2013)
63. **“Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1305.2390 [hep-ex]  
10.1016/j.physletb.2013.06.058  
Phys. Lett. B **725**, 243 (2013)
64. **“Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1305.0609 [nucl-ex]  
10.1016/j.physletb.2013.06.028  
Phys. Lett. B **724**, 213 (2013)
65. **“Searches for long-lived charged particles in pp collisions at  $\sqrt{s}=7$  and 8 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1305.0491 [hep-ex]  
10.1007/JHEP07(2013)122  
JHEP **1307**, 122 (2013)
66. **“Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at  $\sqrt{s} = 7$  TeV and first determination of the strong coupling constant in the TeV range”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1304.7498 [hep-ex]  
10.1140/epjc/s10052-013-2604-6  
Eur. Phys. J. C **73**, 2604 (2013)
67. **“Measurement of the  $\Lambda_b^0$  lifetime in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1304.7495 [hep-ex]  
10.1007/JHEP07(2013)163  
JHEP **07**, 163 (2013)
68. **“Measurement of masses in the  $t\bar{t}$  system by kinematic endpoints in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1304.5783 [hep-ex]  
10.1140/epjc/s10052-013-2494-7  
Eur. Phys. J. C **73**, 2494 (2013)
69. **“Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1304.0213 [hep-ex]  
10.1140/epjc/s10052-013-2469-8  
Eur. Phys. J. C **73**, 2469 (2013)
70. **“Measurement of the  $\Upsilon(1S)$ ,  $\Upsilon(2S)$ , and  $\Upsilon(3S)$  cross sections in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1303.5900 [hep-ex]  
10.1016/j.physletb.2013.10.033  
Phys. Lett. B **727**, 101 (2013)

71. **“Proposed Search for Signals from Non-Baryonic Galactic Dark Matter by Observation of Low Energy Nuclear Recoil Events in a New Liquid Xenon Detector with High Background Rejection”**  
D. B. Cline, M. Atac, J. Park, H. Wang, D. Sanders, J. Zeng, P. F. Smith and J. D. Lewin *et al.*
72. **“Search for microscopic black holes in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1303.5338 [hep-ex]  
10.1007/JHEP07(2013)178  
JHEP **1307**, 178 (2013)
73. **“Studies of jet mass in dijet and W/Z + jet events”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1303.4811 [hep-ex]  
10.1007/JHEP05(2013)090  
JHEP **1305**, 090 (2013)
74. **“Observation of a new boson with mass near 125 GeV in pp collisions at  $\sqrt{s} = 7$  and 8 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1303.4571 [hep-ex]  
10.1007/JHEP06(2013)081  
JHEP **1306**, 081 (2013)
75. **“A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
10.1126/science.1230816  
Science **338**, 1569 (2012).
76. **“Measurement of associated production of vector bosons and top quark-antiquark pairs at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1303.3239 [hep-ex]  
10.1103/PhysRevLett.110.172002  
Phys. Rev. Lett. **110**, 172002 (2013)
77. **“Search for supersymmetry in hadronic final states with missing transverse energy using the variables AlphaT and b-quark multiplicity in pp collisions at 8 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1303.2985 [hep-ex]  
10.1140/epjc/s10052-013-2568-6  
Eur. Phys. J. C **73**, 2568 (2013)
78. **“Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1303.0763 [hep-ex]  
10.1007/JHEP05(2013)145  
JHEP **1305**, 145 (2013)
79. **“Search for narrow resonances using the dijet mass spectrum in pp collisions at  $\sqrt{s} = 8$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.4794 [hep-ex]  
10.1103/PhysRevD.87.114015  
Phys. Rev. D **87**, 114015 (2013)
80. **“Measurement of the X(3872) production cross section via decays to J/psi pi pi in pp collisions at  $\sqrt{s} = 7$  TeV”**



- S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.3968 [hep-ex]  
10.1007/JHEP04(2013)154  
JHEP **1304**, 154 (2013)
81. **“Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.2892 [hep-ex]  
10.1016/j.physletb.2013.04.017  
Phys. Lett. B **722**, 207 (2013)
82. **“Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.2812 [hep-ex]  
10.1103/PhysRevD.87.072005  
Phys. Rev. D **87**, no. 7, 072005 (2013)
83. **“Study of the underlying event at forward rapidity in pp collisions at  $\sqrt{s} = 0.9, 2.76,$  and 7 TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.2394 [hep-ex]  
10.1007/JHEP04(2013)072  
JHEP **1304**, 072 (2013)
84. **“Searches for Higgs bosons in pp collisions at  $\sqrt{s} = 7$  and 8 TeV in the context of four-generation and fermiophobic models”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.1764 [hep-ex]  
10.1016/j.physletb.2013.06.043  
Phys. Lett. B **725**, 36 (2013)
85. **“Search for pair-produced dijet resonances in four-jet final states in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.0531 [hep-ex]  
10.1103/PhysRevLett.110.141802  
Phys. Rev. Lett. **110**, 141802 (2013)
86. **“Measurement of the  $t\bar{t}$  production cross section in the all-jet final state in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1302.0508 [hep-ex]  
10.1007/JHEP05(2013)065  
JHEP **1305**, 065 (2013)
87. **“Measurement of the top-antitop production cross section in the tau+jets channel in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1301.5755 [hep-ex]  
10.1140/epjc/s10052-013-2386-x  
Eur. Phys. J. C **73**, 2386 (2013)
88. **“Search for contact interactions using the inclusive jet  $p_T$  spectrum in pp collisions at  $\sqrt{s} = 7$  TeV”**  
S. Chatrchyan *et al.* [CMS Collaboration].  
arXiv:1301.5023 [hep-ex]  
10.1103/PhysRevD.87.052017  
Phys. Rev. D **87**, 052017 (2013)

89. **“Measurement of W+W- and ZZ production cross sections in pp collisions at  $\sqrt{s} = 8$  TeV”**  
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