



Luca Pernié

Selected Publication List

Analysis note, physics notes and publications

- Phys. Rev. D 96 (2017) Resonant Di-Higgs Production in the $bbWW$ Channel: Probing the Electroweak Phase Transition at the LHC, doi:10.1103/PhysRevD.96.035007
- CMS PAS HIG-16-035 A Search for BSM Light Bosons Decaying into Muon Pairs
- CMS AN 2016-044 A Search for Beyond Standard Model Light Bosons Decaying into Muon Pairs
- CMS DP-2016/053 Performance of Track-based Muon Alignment.
- Eur. Phys. J. C 75 (2015) Measurements of the ZZ production cross sections in the $2l2\nu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV and combined constraints on triple gauge couplings.
- CMS CR-2015/101 Simulation studies on precise timing information during High Luminosity LHC.
- NIMA vol. 797 Response of microchannel plates to single particles and to electromagnetic showers (Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, doi:10.1016/j.nima.2015.06.057)
- CMS CR 2014/181 Measurement of the ZZ production cross section in the $2l2\nu$ decay channel and limits on anomalous triple gauge couplings (preliminary results).
- CMS AN 2014/088 Performance of jets and missing transverse energy with fast ECAL timing.
- CMS DN 2014/06 Studies on a precision timing electromagnetic calorimeter for the CMS upgrade.
- CMS CR 013/453 ZZ cross section measurements and limits on anomalous coupling constants for neutral triple gauge boson.
- CMS AN 2013/411 Bounding the Higgs width using Z to ll events with high missing transverse energy.
- CMS AN 2013/344 CMS ECAL calibration with π^0 and η in the LHC RUN1.

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- CMS AN 2013/333 Search for $Z(\rightarrow ll) H(\rightarrow \text{invisible})$ at $\sqrt{s} = 7$ and 8 TeV.
- CMS CR 2013/284 Evolution of the response of the CMS ECAL, and upgrade design options for electromagnetic calorimetry at the HL-LHC, CMS Conference report.
- CMS PAS SMP-12-016 Measurements of the ZZ production cross sections in the $2l2\nu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV and combined constraints on triple gauge couplings.
- CMS AN 2012/371 Search for a high-mass Higgs boson in the $H \rightarrow ZZ \rightarrow 2l2\nu$ decay channel in pp collisions with the CMS detector.
- CMS AN 2012/148 Measurement of ZZ production cross section at 7 and 8 TeV and anomalous gauge couplings limits in $2l2\nu$ decay channel.
- CMS AN 2012/138 Search for the Higgs boson in the $H \rightarrow ZZ \rightarrow 2l2\nu$ decay channel in pp collisions with the CMS detector.
- CMS AN 2012/123 Search for Invisible Higgs Decays in the $ZH \rightarrow ll + \text{MET}$ channel.
- CMS AN 2012/004 Search for a Standard Model Higgs boson in the decay channel $H \rightarrow WW \rightarrow lvjj$.
- CMS AN 2011/432 Search for Higgs Boson Decays to two W Bosons in the Fully Leptonic Final State with Full 2011 pp Dataset at $\sqrt{s} = 7$ TeV.
- CMS AN 2011/110 Search for a Standard Model Higgs boson produced via vector boson fusion, in the decay channel $H \rightarrow WW \rightarrow lvjj$.

Publications in the CMS collaboration

1. **“Search for pair production of vector-like quarks in the $bW\bar{b}W$ channel from proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1710.01539 [hep-ex]
CMS-B2G-17-003, CERN-EP-2017-224
2. **“Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1710.00159 [hep-ex]
CMS-EXO-17-001, CERN-EP-2017-235
3. **“Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.09814 [hep-ex]
CMS-SUS-16-042, CERN-EP-2017-201
4. **“Observation of correlated azimuthal anisotropy Fourier harmonics in pp and pPb collisions at the LHC”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.09189 [nucl-ex]

CMS-HIN-16-022, CERN-EP-2017-220

5. **“Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.08908 [hep-ex]
CMS-SUS-16-034, CERN-EP-2017-170
6. **“Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.08601 [hep-ex]
CMS-SMP-16-017, CERN-EP-2017-219
7. **“Evidence for the Higgs boson decay to a bottom quark-antiquark pair”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.07497 [hep-ex]
CMS-HIG-16-044, CERN-EP-2017-233
8. **“Observation of top quark production in proton-nucleus collisions”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.07411 [nucl-ex]
CMS-HIN-17-002, CERN-EP-2017-239
9. **“Observation of electroweak production of same-sign W boson pairs in the two jet and two same-sign lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.05822 [hep-ex]
CMS-SMP-17-004, CERN-EP-2017-232
10. **“Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.05543 [hep-ex]
CMS-HIG-17-010, CERN-EP-2017-207
11. **“Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.05406 [hep-ex]
CMS-SUS-16-039, CERN-EP-2017-121
12. **“Combination of inclusive and differential $t\bar{t}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV”**
M. Aaboud *et al.* [ATLAS and CMS Collaborations].
arXiv:1709.05327 [hep-ex]

CMS-TOP-15-016, ATLAS-TOPQ-2016-16, CERN-EP-2017-236
13. **“Search for higgsino pair production in pp collisions at $\sqrt{s} = 13$ TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $H \rightarrow b\bar{b}$ ”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.04896 [hep-ex]
CMS-SUS-16-044, CERN-EP-2017-127
14. **“Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1709.00384 [hep-ex]
CMS-SUS-16-045, CERN-EP-2017-158

15. **“Measurement of the splitting function in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.09429 [nucl-ex]
CMS-HIN-16-006, CERN-EP-2017-205
16. **“Challenges to the chiral magnetic wave using charge-dependent azimuthal anisotropies in pPb and PbPb collisions at $\sqrt{[b]s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.08901 [nucl-ex]
CMS-HIN-16-0017, CERN-EP-2017-180
17. **“Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13 TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.08539 [hep-ex]
CMS-B2G-17-010, CERN-EP-2017-196
18. **“Search for evidence of the type-III seesaw mechanism in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.07962 [hep-ex]
CMS-EXO-17-006, CERN-EP-2017-194
19. **“Measurement of normalized differential t-tbar cross sections in the dilepton channel from pp collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.07638 [hep-ex]
CMS-TOP-16-007, CERN-EP-2017-120
20. **“Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.07113 [nucl-ex]
CMS-HIN-15-010, CERN-EP-2017-133
21. **“Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.05379 [hep-ex]
CMS-B2G-17-001, CERN-EP-2017-184
22. **“Nuclear modification factor of D0 mesons in PbPb collisions at $\sqrt{s[NN]} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.04962 [nucl-ex]
CMS-HIN-16-001, CERN-EP-2017-186
23. **“Search for resonant and nonresonant Higgs boson pair production in the bbl ν l ν final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.04188 [hep-ex]
CMS-HIG-17-006, CERN-EP-2017-168
24. **“Measurement of prompt D^0 meson azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1708.03497 [nucl-ex]
CMS-HIN-16-007, CERN-EP-2017-174
25. **“Measurement of vector boson scattering and constraints on anomalous quartic couplings**

from events with four leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV"

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1708.02812 [hep-ex]

CMS-SMP-17-006, CERN-EP-2017-177

26. **"Search for vector-like light-flavor quark partners in proton-proton collisions at $\sqrt{s}=8$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1708.02510 [hep-ex]

CMS-B2G-12-016, CERN-EP-2017-145

27. **"Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the LHC"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1708.01602 [nucl-ex]

CMS-HIN-17-001, CERN-EP-2017-193

28. **"Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1708.01062 [hep-ex]

CMS-B2G-17-007, CERN-EP-2017-155

29. **"Observation of the Higgs boson decay to a pair of tau leptons"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1708.00373 [hep-ex]

CMS-HIG-16-043, CERN-EP-2017-181

30. **"Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s}=8$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1707.07283 [hep-ex]

CMS-HIG-15-009, CERN-EP-2017-159

31. **"Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1707.07274 [hep-ex]

CMS-SUS-16-032, CERN-EP-2017-144

32. **"Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1707.06193 [hep-ex]

CMS-SUS-16-047, CERN-EP-2017-130

33. **"Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1707.05979 [hep-ex]

CMS-SMP-16-005, CERN-EP-2017-142

34. **"Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1707.03325 [hep-ex]

CMS-SUS-15-009, CERN-EP-2017-124

35. **“Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1707.03316 [hep-ex]
DOI:10.1007/JHEP10(2017)005
JHEP **1710**, 005 (2017)
CMS-SUS-16-049, CERN-EP-2017-129
36. **“Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1707.02909 [hep-ex]
CMS-HIG-17-002, CERN-EP-2017-126
37. **“Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1707.01303 [hep-ex]
DOI:10.1140/epjc/s10052-017-5192-z
Eur. Phys. J. C **77**, no. 9, 636 (2017)
CMS-B2G-17-002, CERN-EP-2017-128
38. **“Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1707.00541 [hep-ex]
CMS-HIG-17-011, CERN-EP-2017-143
39. **“A search for Higgs boson pair production in the $b\bar{b}\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1707.00350 [hep-ex]
CMS-HIG-215-013, CERN-EP-2017-104
40. **“Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.10194 [hep-ex]
CMS-FSQ-16-004, CERN-EP-2017-091
41. **“Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.09936 [hep-ex]
CMS-HIG-16-041, CERN-EP-2017-123
42. **“Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.09933 [hep-ex]
CMS-SUS-16-043, CERN-EP-2017-113
43. **“Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.08578 [hep-ex]
CMS-EXO-16-026, CERN-EP-2017-125
44. **“Exclusive and semi-exclusive $\pi^+\pi^-$ production in proton-proton collisions at $\sqrt{s} =$**

7 TeV

- V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1706.08310 [hep-ex]
CMS-FSQ-12-004, CERN-EP-2016-261
45. **“Measurement of the semileptonic $t\bar{t} + \hat{t}\hat{s}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.08128 [hep-ex]
DOI:10.1007/JHEP10(2017)006
JHEP **1710**, 006 (2017)
CMS-TOP-14-008, CERN-EP-2017-112
46. **“Suppression of excited Upsilon states relative to the ground state in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.05984 [hep-ex]
CMS-HIN-16-008, CERN-EP-2017-080
47. **“Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.05868 [hep-ex]
CMS-SMP-15-003, CERN-EP-2017-085
48. **“Particle-flow reconstruction and global event description with the CMS detector”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.04965 [physics.ins-det]
CMS-PRF-14-001, CERN-EP-2017-110
49. **“Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.04402 [hep-ex]
CMS-SUS-16-051, CERN-EP-2017-109
50. **“Searches for $W\tilde{A}\tilde{s}$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.04260 [hep-ex]
DOI:10.1007/JHEP08(2017)029
JHEP **1708**, 029 (2017)
CMS-B2G-16-016, CERN-EP-2017-090
51. **“Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.03794 [hep-ex]
CMS-EXO-16-039, CERN-EP-2017-097
52. **“Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure techniques at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.03408 [hep-ex]
CMS-B2G-16-024, CERN-EP-2017-107
53. **“Search for dark matter produced in association with heavy-flavor quarks in proton-proton collisions at $\sqrt{s}=13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1706.02581 [hep-ex]

- CMS-EXO-16-005, CERN-EP-2017-087
54. **“Search for top quark partners with charge 5/3 in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.10967 [hep-ex]
DOI:10.1007/JHEP08(2017)073
JHEP **1708**, 073 (2017)
CMS-B2G-15-006, CERN-EP-2017-102
55. **“Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.10532 [hep-ex]
DOI:10.1103/PhysRevLett.119.111802
Phys. Rev. Lett. **119**, no. 11, 111802 (2017)
CMS-EXO-16-030, CERN-EP-2017-098
56. **“Measurements of $t\bar{t}$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.10141 [hep-ex]
CMS-TOP-16-010, CERN-EP-2017-069
57. **“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”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.09171 [hep-ex]
CMS-B2G-16-007, CERN-EP-2017-077
58. **“Measurement of $B^{+/-}$ meson differential production cross sections in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.04727 [hep-ex]
CMS-HIN-16-011, CERN-EP-2017-076
59. **“Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.04673 [hep-ex]
CMS-SUS-16-037, CERN-EP-2017-088
60. **“Search for new phenomena with the MT2 variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.04650 [hep-ex]
CMS-SUS-16-036, CERN-EP-2017-084
61. **“Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.02942 [hep-ex]
DOI:10.1103/PhysRevLett.119.141802
Phys. Rev. Lett. **119**, no. 14, 141802 (2017)
CMS-HIG-16-027, CERN-EP-2017-068
62. **“Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions”**
A. M. Sirunyan *et al.* [CMS Collaboration].

- arXiv:1705.02628 [hep-ex]
CMS-SMP-16-011, CERN-EP-2017-061
63. **“Search for black holes in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1705.01403 [hep-ex]
CMS-EXO-15-007, CERN-EP-2017-074
 64. **“Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1704.07781 [hep-ex]
DOI:10.1103/PhysRevD.96.032003
Phys. Rev. D **96**, no. 3, 032003 (2017)
CMS-SUS-16-033, CERN-EP-2017-072
 65. **“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 $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1704.07323 [hep-ex]
DOI:10.1140/epjc/s10052-017-5079-z
Eur. Phys. J. C **77**, no. 9, 578 (2017)
CMS-SUS-16-035, CERN-EP-2017-071
 66. **“Measurement of the top quark mass in the dileptonic $t\bar{t}$ decay channel using the mass observables $M_{b\ell}$, M_{T2} , and $M_{b\ell\nu}$ in pp collisions at $\sqrt{s} = 8$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1704.06142 [hep-ex]
DOI:10.1103/PhysRevD.96.032002
Phys. Rev. D **96**, no. 3, 032002 (2017)
CMS-TOP-15-008, CERN-EP-2017-050
 67. **“Search for $t\bar{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1704.03366 [hep-ex]
DOI:10.1007/JHEP07(2017)001
JHEP **1707**, 001 (2017)
CMS-B2G-16-015, CERN-EP-2017-049
 68. **“Measurements of the $pp \rightarrow W\gamma\gamma$ and $pp \rightarrow Z\gamma\gamma$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 8$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1704.00366 [hep-ex]
CMS-SMP-15-008, CERN-EP-2017-039
 69. **“Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1703.09986 [hep-ex]
DOI:10.1007/JHEP07(2017)013
JHEP **1707**, 013 (2017)
CMS-EXO-15-009, CERN-EP-2017-047
 70. **“Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.06352 [hep-ex]
DOI:10.1007/JHEP09(2017)053
JHEP **1709**, 053 (2017)

CMS-B2G-16-013, CERN-EP-2017-035

71. **“Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV”**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.06330 [hep-ex]

DOI:10.1140/epjc/s10052-017-5030-3

Eur. Phys. J. C **77**, no. 7, 467 (2017)

CMS-TOP-15-015, CERN-EP-2017-018

72. **“Search for anomalous couplings in boosted $WW/WZ \rightarrow \ell\nu q\bar{q}$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV”**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.06095 [hep-ex]

DOI:10.1016/j.physletb.2017.06.009

Phys. Lett. B **772**, 21 (2017)

CMS-SMP-13-008, CERN-EP-2017-029

73. **“Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\gamma\gamma$ at $\sqrt{s} = 13$ TeV”**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.05236 [hep-ex]

CMS-EXO-16-012, CERN-EP-2017-027

74. **“Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.03995 [hep-ex]

DOI:10.1007/JHEP07(2017)121

JHEP **1707**, 121 (2017)

CMS-EXO-16-023, CERN-EP-2017-025

75. **“Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV”**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.02530 [hep-ex]

DOI:10.1140/epjc/s10052-017-4912-8

Eur. Phys. J. C **77**, no. 5, 354 (2017)

CMS-TOP-15-001, CERN-EP-2017-012

76. **“Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV”**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.01651 [hep-ex]

DOI:10.1007/JHEP07(2017)014

JHEP **1707**, 014 (2017)

CMS-EXO-16-037, CERN-EP-2017-031

77. **“Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions”**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1703.01630 [hep-ex]

DOI:10.1140/epjc/s10052-017-4984-5

Eur. Phys. J. C **77**, no. 7, 459 (2017)

- CMS-TOP-14-013, CERN-EP-2017-030
78. **“Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1702.06164 [hep-ex]
DOI:10.1016/j.physletb.2017.06.064
Phys. Lett. B **772**, 336 (2017)
CMS-TOP-16-016, CERN-EP-2017-023
 79. **“Measurement of the cross section for electroweak production of $Z\gamma$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1702.03025 [hep-ex]
DOI:10.1016/j.physletb.2017.04.071
Phys. Lett. B **770**, 380 (2017)
CMS-SMP-14-018, CERN-EP-2016-308
 80. **“Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1702.01462 [nucl-ex]
DOI:10.1140/epjc/s10052-017-4828-3
Eur. Phys. J. C **77**, no. 4, 269 (2017)
CMS-HIN-14-009, CERN-EP-2017-009
 81. **“Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s} = 8$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1702.01404 [hep-ex]
DOI:10.1007/JHEP07(2017)003
JHEP **1707**, 003 (2017)
CMS-TOP-12-039, CERN-EP-2016-324
 82. **“Study of Jet Quenching with $Z + \text{jet}$ Correlations in Pb-Pb and pp Collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1702.01060 [nucl-ex]
DOI:10.1103/PhysRevLett.119.082301
Phys. Rev. Lett. **119**, no. 8, 082301 (2017)
CMS-HIN-15-013, CERN-EP-2017-002
 83. **“Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1702.00630 [hep-ex]
CMS-HIN-15-014, CERN-EP-2017-001
 84. **“Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1701.08695 [hep-ex]
DOI:10.1007/JHEP08(2017)046
JHEP **1708**, 046 (2017)
CMS-FSQ-16-002, CERN-EP-2016-313
 85. **“Search for single production of vector-like quarks decaying into a b quark and a W**

boson in proton-proton collisions at $\sqrt{s} = 13$ TeV"

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1701.08328 [hep-ex]

DOI:10.1016/j.physletb.2017.07.022

Phys. Lett. B **772**, 634 (2017)

CMS-B2G-16-006, CERN-EP-2016-319

86. **"Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1701.07409 [hep-ex]

DOI:10.1007/JHEP05(2017)029

JHEP **1705**, 029 (2017)

CMS-B2G-16-001, CERN-EP-2016-326

87. **"Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1701.06940 [hep-ex]

DOI:10.1140/epjc/s10052-017-5182-1

Eur. Phys. J. C **77**, no. 9, 635 (2017)

CMS-SUS-16-003, CERN-EP-2016-306

88. **"Measurement of the $t\bar{t}$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s} = 13$ TeV"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1701.06228 [hep-ex]

DOI:10.1007/JHEP09(2017)051

JHEP **1709**, 051 (2017)

CMS-TOP-16-006, CERN-EP-2016-321

89. **"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"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1701.02042 [hep-ex]

DOI:10.1007/JHEP09(2017)106, 10.1007/JHEP03(2017)061

JHEP **1703**, 061 (2017), Erratum: [JHEP **1709**, 106 (2017)]

CMS-EXO-16-010, CERN-EP-2016-309, FERMILAB-PUB-17-011-CMS

90. **"Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1701.02032 [hep-ex]

CMS-HIG-16-015, CERN-EP-2016-292

91. **"Mechanical stability of the CMS strip tracker measured with a laser alignment system"**

A. M. Sirunyan *et al.* [CMS Collaboration].

arXiv:1701.02022 [physics.ins-det]

DOI:10.1088/1748-0221/12/04/P04023

JINST **12**, no. 04, P04023 (2017)

CMS-TRK-15-002, CERN-EP-2016-320

92. **"Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s} = 13$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1701.01954 [hep-ex]

DOI:10.1103/PhysRevD.96.012004

- Phys. Rev. D **96**, no. 1, 012004 (2017)
CMS-SUS-16-009, CERN-EP-2016-293
93. **“Search for leptophobic Z' bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1701.01345 [hep-ex]
DOI:10.1016/j.physletb.2017.08.069
Phys. Lett. B **773**, 563 (2017)
CMS-EXO-14-006, CERN-EP-2016-295
 94. **“Search for high-mass $Z\gamma$ resonances in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV using jet substructure techniques”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1612.09516 [hep-ex]
DOI:10.1016/j.physletb.2017.06.062
Phys. Lett. B **772**, 363 (2017)
CMS-EXO-16-025, CERN-EP-2016-300
 95. **“Search for heavy gauge W boson in events with an energetic lepton and large missing transverse momentum at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1612.09274 [hep-ex]
DOI:10.1016/j.physletb.2017.04.043
Phys. Lett. B **770**, 278 (2017)
CMS-EXO-15-006, CERN-EP-2016-281
 96. **“Measurement of electroweak-induced production of $W\gamma$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1612.09256 [hep-ex]
DOI:10.1007/JHEP06(2017)106
JHEP **1706**, 106 (2017)
CMS-SMP-14-011, CERN-EP-2016-289
 97. **“Search for massive resonances decaying into WW , WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1612.09159 [hep-ex]
DOI:10.1007/JHEP03(2017)162
JHEP **1703**, 162 (2017)
CMS-B2G-16-004, CERN-EP-2016-296
 98. **“Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1612.08972 [nucl-ex]
DOI:10.1016/j.physletb.2017.06.053
Phys. Lett. B **772**, 306 (2017)
CMS-HIN-15-012, CERN-EP-2016-274
 99. **“Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1612.05336 [hep-ex]
DOI:10.1007/JHEP04(2017)136
JHEP **1704**, 136 (2017)

- CMS-B2G-16-005, CERN-EP-2016-290
100. **“Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1612.03877 [hep-ex]
DOI:10.1140/epjc/s10052-017-4853-2
Eur. Phys. J. C **77**, no. 5, 327 (2017)
CMS-SUS-16-008, CERN-EP-2016-284
 101. **“Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying τ leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1612.01190 [hep-ex]
DOI:10.1007/JHEP03(2017)077
JHEP **1703**, 077 (2017)
CMS-EXO-16-016, CERN-EP-2016-286
 102. **“Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1612.00999 [hep-ex]
DOI:10.1016/j.physletb.2017.05.019
Phys. Lett. B **771**, 80 (2017)
CMS-B2G-15-008, CERN-EP-2016-279
 103. **“Search for CP violation in $t\bar{t}$ production and decay in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.08931 [hep-ex]
DOI:10.1007/JHEP03(2017)101
JHEP **1703**, 101 (2017)
CMS-TOP-16-001, CERN-EP-2016-266, CMS-TO-16-001
 104. **“Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.06604 [hep-ex]
DOI:10.1016/j.physletb.2017.04.005
Phys. Lett. B **769**, 391 (2017)
CMS-SUS-15-012, CERN-EP-2016-269
 105. **“Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.06594 [hep-ex]
DOI:10.1007/JHEP02(2017)048
JHEP **1702**, 048 (2017)
CMS-EXO-16-008, CERN-EP-2016-273
 106. **“Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.06507 [hep-ex]

CMS-SMP-14-010, CERN-EP-2016-254
 107. **“Measurement of the $t\bar{t}$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s} = 13$ TeV”**

- V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.04040 [hep-ex]
DOI:10.1140/epjc/s10052-017-4718-8
Eur. Phys. J. C **77**, 172 (2017)
CMS-TOP-16-005, CERN-EP-2016-265
108. **“Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.03844 [hep-ex]
DOI:10.1007/JHEP04(2017)022
JHEP **1704**, 022 (2017)
CMS-SMP-14-013, CERN-EP-2016-256
109. **“Search for dijet resonances in proton–proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1611.03568 [hep-ex]
DOI:10.1016/j.physletb.2017.09.029, 10.1016/j.physletb.2017.02.012
Phys. Lett. B **769**, 520 (2017), Erratum: [Phys. Lett. B **772**, 882 (2017)]
CMS-EXO-16-032, CERN-EP-2016-277
110. **“Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.01664 [nucl-ex]
DOI:10.1007/JHEP04(2017)039
JHEP **1704**, 039 (2017)
CMS-HIN-15-015, CERN-EP-2016-242
111. **“Suppression of $\Upsilon(1S)$, $\Upsilon(2S)$ and $\Upsilon(3S)$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.01510 [nucl-ex]
DOI:10.1016/j.physletb.2017.04.031
Phys. Lett. B **770**, 357 (2017)
CMS-HIN-15-001, CERN-EP-2016-248
112. **“Relative Modification of Prompt $J/\psi(2S)$ and J/ψ Yields from pp to PbPb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
A. M. Sirunyan *et al.* [CMS Collaboration].
arXiv:1611.01438 [nucl-ex]
DOI:10.1103/PhysRevLett.118.162301
Phys. Rev. Lett. **118**, no. 16, 162301 (2017)
CMS-HIN-16-004, CERN-EP-2016-258
113. **“A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1611.00338 [hep-ex]
DOI:10.1140/epjc/s10052-017-4787-8
Eur. Phys. J. C **77**, no. 5, 294 (2017)
CMS-SUS-15-005, CERN-EP-2016-246
114. **“Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].

- arXiv:1610.09551 [hep-ex]
DOI:10.1016/j.physletb.2017.04.028
Phys. Lett. B **770**, 50 (2017)
CMS-TOP-12-031, CERN-EP-2016-249
115. **“Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8$, and 13 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1610.09218 [hep-ex]
DOI:10.1007/JHEP02(2017)135
JHEP **1702**, 135 (2017)
CMS-HIG-16-016, CERN-EP-2016-240
 116. **“Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1610.08066 [hep-ex]
DOI:10.1016/j.physletb.2017.02.040
Phys. Lett. B **768**, 137 (2017)
CMS-B2G-16-003, CERN-EP-2016-226
 117. **“Observation of $\Upsilon(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1610.07095 [hep-ex]
DOI:10.1007/JHEP05(2017)013
JHEP **1705**, 013 (2017)
CMS-BPH-14-008, CERN-EP-2016-237
 118. **“Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1610.05133 [hep-ex]
DOI:10.1103/PhysRevD.95.012009
Phys. Rev. D **95**, no. 1, 012009 (2017)
CMS-SUS-14-020, CERN-EP-2016-224
 119. **“Search for electroweak production of charginos in final states with two $\tilde{l}\tilde{l}$ leptons in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1610.04870 [hep-ex]
DOI:10.1007/JHEP04(2017)018
JHEP **1704**, 018 (2017)
CMS-SUS-14-022, CERN-EP-2016-225
 120. **“Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1610.04857 [hep-ex]
DOI:10.1007/JHEP02(2017)079
JHEP **1702**, 079 (2017)
CMS-TOP-13-017, CERN-EP-2016-208
 121. **“Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1610.04222 [hep-ex]
DOI:10.1103/PhysRevD.95.052002

- Phys. Rev. D **95**, 052002 (2017)
 CMS-SMP-14-023, CERN-EP-2016-231, CERN-PH-EP-2016-231
122. **“Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1610.04191 [hep-ex]
 DOI:10.1103/PhysRevD.95.092001
 Phys. Rev. D **95**, no. 9, 092001 (2017)
 CMS-TOP-16-008, CERN-EP-2016-227
123. **“Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1610.03545 [hep-ex]
 DOI:10.1007/JHEP02(2017)028
 JHEP **1702**, 028 (2017)
 CMS-TOP-14-007, CERN-EP-2016-207
124. **“Search for high-mass $Z\gamma$ resonances in $e^+e^-\gamma$ and $\mu^+\mu^-\gamma$ final states in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1610.02960 [hep-ex]
 DOI:10.1007/JHEP01(2017)076
 JHEP **1701**, 076 (2017)
 CMS-EXO-16-021, CERN-EP-2016-230
125. **“Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 13$ TeV”**
 A. M. Sirunyan *et al.* [CMS Collaboration].
 arXiv:1610.00678 [hep-ex]
 DOI:10.1016/j.physletb.2017.07.047
 Phys. Lett. B **772**, 752 (2017)
 CMS-TOP-16-003, CERN-EP-2016-233
126. **“Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1610.00613 [nucl-ex]
 DOI:10.1140/epjc/s10052-017-4781-1
 Eur. Phys. J. C **77**, no. 4, 252 (2017)
 CMS-HIN-14-005, CERN-EP-2016-243
127. **“Observation of charge-dependent azimuthal correlations in p-Pb collisions and its implication for the search for the chiral magnetic effect”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1610.00263 [nucl-ex]
 DOI:10.1103/PhysRevLett.118.122301
 Phys. Rev. Lett. **118**, no. 12, 122301 (2017)
 CMS-HIN-16-009, CERN-EP-2016-236
128. **“Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1609.09386 [hep-ex]
 DOI:10.1103/PhysRevD.95.012011
 Phys. Rev. D **95**, no. 1, 012011 (2017)

- CMS-SUS-15-006, CERN-EP-2016-239
129. **“Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1609.08382 [hep-ex]
DOI:10.1103/PhysRevD.94.112004
Phys. Rev. D **94**, no. 11, 112004 (2016)
CMS-EXO-15-010, CERN-EP-2016-204
 130. **“Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1609.07658 [hep-ex]
DOI:10.1103/PhysRevD.95.012003
Phys. Rev. D **95**, no. 1, 012003 (2017)
CMS-SUS-15-004, CERN-EP-2016-214
 131. **“Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1609.05721 [hep-ex]
DOI:10.1140/epjc/s10052-017-4730-z
Eur. Phys. J. C **77**, no. 4, 236 (2017)
CMS-SMP-14-014, CERN-EP-2016-205
 132. **“Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1609.05391 [hep-ex]
DOI:10.1016/j.physletb.2017.02.010
Phys. Lett. B **768**, 57 (2017)
CMS-EXO-15-005, CERN-EP-2016-209, FERMILAB-PUB-16-491-CMS
 133. **“Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1609.05383 [nucl-ex]
DOI:10.1103/PhysRevC.96.015202
Phys. Rev. C **96**, no. 1, 015202 (2017)
CMS-HIN-13-005, CERN-EP-2016-217
 134. **“Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1609.05331 [hep-ex]
DOI:10.1007/JHEP03(2017)156
JHEP **1703**, 156 (2017)
CMS-SMP-14-001, CERN-EP-2016-196
 135. **“Studies of inclusive four-jet production with two b -tagged jets in proton-proton collisions at 7 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1609.03489 [hep-ex]
DOI:10.1103/PhysRevD.94.112005
Phys. Rev. D **94**, no. 11, 112005 (2016)
CMS-FSQ-13-010, CERN-EP-2016-191
 136. **“Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and**

combination with 8 TeV search"

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1609.02507 [hep-ex]

DOI:10.1016/j.physletb.2017.01.027

Phys. Lett. B **767**, 147 (2017)

CMS-EXO-16-027, CERN-EP-2016-216, CMS-EXO-16-02

137. **"Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1609.02466 [nucl-ex]

DOI:10.1007/JHEP11(2016)055

JHEP **1611**, 055 (2016)

CMS-HIN-15-011, CERN-EP-2016-199

138. **"The CMS trigger system"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1609.02366 [physics.ins-det]

DOI:10.1088/1748-0221/12/01/P01020

JINST **12**, no. 01, P01020 (2017)

CMS-TRG-12-001, CERN-EP-2016-160

139. **"Measurement of the total and differential inclusive B^+ hadron cross sections in pp collisions at $\sqrt{s} = 13$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1609.00873 [hep-ex]

DOI:10.1016/j.physletb.2017.05.074

Phys. Lett. B **771**, 435 (2017)

CMS-BPH-15-004, CERN-EP-2016-198

140. **"Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1608.07561 [hep-ex]

DOI:10.1140/epjc/s10052-016-4573-z

Eur. Phys. J. C **77**, no. 2, 92 (2017)

CMS-SMP-14-020, CERN-EP-2016-190

141. **"Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1608.03560 [hep-ex]

DOI:10.1007/JHEP12(2016)123

JHEP **1612**, 123 (2016)

CMS-TOP-15-014, CERN-EP-2016-202

142. **"Search for new phenomena in events with high jet multiplicity and low missing transverse momentum in proton–proton collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1608.01224 [hep-ex]

DOI:10.1016/j.physletb.2017.01.073

Phys. Lett. B **770**, 257 (2017)

CMS-EXO-13-001, CERN-EP-2016-187

143. **"Measurement of the ZZ production cross section and $Z \rightarrow \ell^+ \ell^- \ell'^+ \ell'^-$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

- arXiv:1607.08834 [hep-ex]
 DOI:10.1016/j.physletb.2017.09.030, 10.1016/j.physletb.2016.10.054
 Phys. Lett. B **763**, 280 (2016), Erratum: [Phys. Lett. B **772**, 884 (2017)]
 CMS-SMP-16-001, CERN-EP-2016-174
144. **“Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1607.06975 [hep-ex]
 DOI:10.1007/JHEP11(2016)147
 JHEP **1611**, 147 (2016)
 CMS-SMP-13-012, CERN-EP-2016-093
145. **“Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 13$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1607.06943 [hep-ex]
 DOI:10.1016/j.physletb.2017.01.011
 Phys. Lett. B **766**, 268 (2017)
 CMS-SMP-16-002, CERN-EP-2016-169
146. **“Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1607.05764 [hep-ex]
 DOI:10.1007/JHEP12(2016)083, 10.1007/JHEP08(2017)035
 JHEP **1612**, 083 (2016), Erratum: [JHEP **1708**, 035 (2017)]
 CMS-EXO-12-055, CERN-EP-2016-178
147. **“Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1607.03663 [hep-ex]
 DOI:10.1088/1748-0221/12/02/P02014
 JINST **12**, no. 02, P02014 (2017)
 CMS-JME-13-004, CERN-PH-EP-2015-305
148. **“Search for lepton flavour violating decays of the Higgs boson to $e\tau$ and $e\mu$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1607.03561 [hep-ex]
 DOI:10.1016/j.physletb.2016.09.062
 Phys. Lett. B **763**, 472 (2016)
 CMS-HIG-14-040, CERN-EP-2016-112
149. **“Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1607.02638 [hep-ex]
 DOI:10.1016/j.physletb.2016.11.001
 Phys. Lett. B **764**, 66 (2017)
 CMS-BPH-13-009, CERN-EP-2016-161
150. **“Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1607.00915 [hep-ex]
 DOI:10.1007/JHEP12(2016)013
 JHEP **1612**, 013 (2016)
 CMS-SUS-15-011, CERN-EP-2016-132

151. **“Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=7$ and 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1607.00837 [hep-ex]
DOI:10.1103/PhysRevD.94.052006
Phys. Rev. D **94**, no. 5, 052006 (2016)
CMS-TOP-12-042, CERN-EP-2016-139
152. **“Searches for R -parity-violating supersymmetry in pp collisions at $\sqrt{s} = 8$ TeV in final states with 0-4 leptons”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1606.08076 [hep-ex]
DOI:10.1103/PhysRevD.94.112009
Phys. Rev. D **94**, no. 11, 112009 (2016)
CMS-SUS-14-003, CERN-EP-2016-097
153. **“Evidence for collectivity in pp collisions at the LHC”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1606.06198 [nucl-ex]
DOI:10.1016/j.physletb.2016.12.009
Phys. Lett. B **765**, 193 (2017)
CMS-HIN-16-010, CERN-EP-2016-147
154. **“Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1606.05864 [hep-ex]
DOI:10.1007/JHEP02(2017)096
JHEP **1702**, 096 (2017)
CMS-SMP-14-012, CERN-EP-2016-152
155. **“Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 8$ and 13 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1606.04093 [hep-ex]
DOI:10.1103/PhysRevLett.117.051802
Phys. Rev. Lett. **117**, no. 5, 051802 (2016)
CMS-EXO-16-018, CERN-EP-2016-154
156. **“Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1606.03577 [hep-ex]
DOI:10.1007/JHEP10(2016)129
JHEP **1610**, 129 (2016)
CMS-SUS-15-010, CERN-EP-2016-094
157. **“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”**
G. Aad *et al.* [ATLAS and CMS Collaborations].
arXiv:1606.02266 [hep-ex]
DOI:10.1007/JHEP08(2016)045
JHEP **1608**, 045 (2016)
CERN-EP-2016-100, ATLAS-HIGG-2015-07, CMS-HIG-15-002
158. **“Measurement of the transverse momentum spectrum of the Higgs boson produced in**

pp collisions at $\sqrt{s} = 8$ TeV using $H \rightarrow WW$ decays"

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1606.01522 [hep-ex]

DOI:10.1007/JHEP03(2017)032

JHEP **1703**, 032 (2017)

CMS-HIG-15-010, CERN-EP-2016-125

159. **"Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1605.09305 [hep-ex]

DOI:10.1103/PhysRevLett.118.021802

Phys. Rev. Lett. **118**, no. 2, 021802 (2017)

CMS-SUS-14-019, CERN-EP-2016-096

160. **"Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton + jets final states produced in pp collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1605.09047 [hep-ex]

DOI:10.1016/j.physletb.2016.10.007

Phys. Lett. B **762**, 512 (2016)

CMS-TOP-13-008, CERN-EP-2016-118

161. **"Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 8$ TeV using the α_T variable"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1605.08993 [hep-ex]

DOI:10.1016/j.physletb.2017.02.007

Phys. Lett. B **767**, 403 (2017)

CMS-SUS-14-006, CERN-EP-2016-103

162. **"Coherent J/ψ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the CMS experiment"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1605.06966 [nucl-ex]

DOI:10.1016/j.physletb.2017.07.001

Phys. Lett. B **772**, 489 (2017)

CMS-HIN-12-009, CERN-EP-2016-098

163. **"Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1605.06699 [nucl-ex]

DOI:10.1016/j.physletb.2017.01.075

Phys. Lett. B **768**, 103 (2017)

CMS-HIN-15-006, CERN-EP-2016-105

164. **"Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1605.04608 [hep-ex]

DOI:10.1007/JHEP08(2016)122

JHEP **1608**, 122 (2016)

CMS-SUS-15-007, CERN-EP-2016-111

165. **"Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

- V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1605.04436 [hep-ex]
DOI:10.1140/epjc/s10052-016-4286-3
Eur. Phys. J. C **76**, no. 8, 451 (2016)
CMS-SMP-15-007, CERN-EP-2016-104
166. **“Search for new physics in same-sign dilepton events in proton–proton collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1605.03171 [hep-ex]
DOI:10.1140/epjc/s10052-016-4261-z
Eur. Phys. J. C **76**, no. 8, 439 (2016)
CMS-SUS-15-008, CERN-EP-2016-119
167. **“Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1605.02329 [hep-ex]
DOI:10.1007/JHEP09(2016)051
JHEP **1609**, 051 (2016)
CMS-HIG-14-032, CERN-EP-2016-054
168. **“Measurement of the integrated and differential $t\bar{t}$ production cross sections for high- p_t top quarks in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1605.00116 [hep-ex]
DOI:10.1103/PhysRevD.94.072002
Phys. Rev. D **94**, no. 7, 072002 (2016)
CMS-TOP-14-012, CERN-EP-2016-078
169. **“Search for narrow resonances in dijet final states at $\sqrt{s} = 8$ TeV with the novel CMS technique of data scouting”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1604.08907 [hep-ex]
DOI:10.1103/PhysRevLett.117.031802
Phys. Rev. Lett. **117**, no. 3, 031802 (2016)
CMS-EXO-14-005, CERN-EP-2016-090
170. **“Pseudorapidity dependence of long-range two-particle correlations in p Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1604.05347 [nucl-ex]
DOI:10.1103/PhysRevC.96.014915
Phys. Rev. C **96**, no. 1, 014915 (2017)
CMS-HIN-14-008, CERN-EP-2016-042
171. **“Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1604.05239 [hep-ex]
DOI:10.1140/epjc/s10052-016-4149-y
Eur. Phys. J. C **76**, no. 6, 317 (2016)
CMS-EXO-13-002, CERN-EP-2016-068
172. **“Evidence for exclusive $\gamma\gamma \rightarrow W^+W^-$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].

- arXiv:1604.04464 [hep-ex]
 DOI:10.1007/JHEP08(2016)119
 JHEP **1608**, 119 (2016)
 CMS-FSQ-13-008, CERN-EP-2016-073
173. **“Search for dark matter particles in proton-proton collisions at $\sqrt{s} = 8$ TeV using the razor variables”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1603.08914 [hep-ex]
 DOI:10.1007/JHEP12(2016)088
 JHEP **1612**, 088 (2016)
 CMS-EXO-14-004, CERN-EP-2016-025
174. **“Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1603.06896 [hep-ex]
 DOI:10.1103/PhysRevD.94.052012
 Phys. Rev. D **94**, no. 5, 052012 (2016)
 CMS-HIG-13-032, CERN-EP-2016-050
175. **“Measurement of the top quark mass using charged particles in pp collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1603.06536 [hep-ex]
 DOI:10.1103/PhysRevD.93.092006
 Phys. Rev. D **93**, no. 9, 092006 (2016)
 CMS-TOP-12-030, CERN-EP-2016-062
176. **“Measurements of $t\bar{t}$ charge asymmetry using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1603.06221 [hep-ex]
 DOI:10.1016/j.physletb.2016.07.006
 Phys. Lett. B **760**, 365 (2016)
 CMS-TOP-15-009, CERN-EP-2016-059
177. **“Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1603.04053 [hep-ex]
 DOI:10.1007/JHEP10(2016)006
 JHEP **1610**, 006 (2016)
 CMS-SUS-15-003, CERN-EP-2016-067
178. **“Search for neutral resonances decaying into a Z boson and a pair of b jets or τ leptons”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1603.02991 [hep-ex]
 DOI:10.1016/j.physletb.2016.05.087
 Phys. Lett. B **759**, 369 (2016)
 CMS-HIG-15-001, CERN-EP-2016-039
179. **“ $\Upsilon(nS)$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s} = 7$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1603.02913 [hep-ex]
 DOI:10.1016/j.physletb.2016.07.065
 Phys. Lett. B **761**, 31 (2016)

- CMS-HIN-15-003, CERN-PH-EP-2015-310
180. **"Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1603.02555 [hep-ex]
DOI:10.1007/JHEP09(2016)027
JHEP **1609**, 027 (2016)
CMS-TOP-13-009, CERN-EP-2016-045
 181. **"Measurement of the t-tbar production cross section in the e-mu channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1603.02303 [hep-ex]
DOI:10.1007/JHEP08(2016)029
JHEP **1608**, 029 (2016)
CMS-TOP-13-004, CERN-EP-2016-044
 182. **"Search for heavy Majorana neutrinos in $e^{\hat{A}\hat{s}}e^{\hat{A}\hat{s}} + \text{jets}$ and $e^{\hat{A}\hat{s}}\mu^{\hat{A}\hat{s}} + \text{jets}$ events in proton-proton collisions at $\sqrt{s} = 8$ TeV"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1603.02248 [hep-ex]
DOI:10.1007/JHEP04(2016)169
JHEP **1604**, 169 (2016)
CMS-EXO-14-014, CERN-EP-2016-032
 183. **"Measurement of the differential cross section and charge asymmetry for inclusive $pp \rightarrow W^{\pm} + X$ production at $\sqrt{s} = 8$ TeV"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1603.01803 [hep-ex]
DOI:10.1140/epjc/s10052-016-4293-4
Eur. Phys. J. C **76**, no. 8, 469 (2016)
CMS-SMP-14-022, CERN-EP-2016-043
 184. **"Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1603.00765 [hep-ex]
DOI:10.1140/epjc/s10052-016-4292-5
Eur. Phys. J. C **76**, no. 8, 460 (2016)
CMS-SUS-13-023, CERN-EP-2016-040
 185. **"Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.09024 [hep-ex]
DOI:10.1140/epjc/s10052-016-4504-z
Eur. Phys. J. C **77**, no. 1, 15 (2017)
CMS-TOP-12-006, CERN-EP-2016-016
 186. **"Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $\sqrt{s} = 8$ TeV"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.08772 [hep-ex]
DOI:10.1016/j.physletb.2016.05.088
Phys. Lett. B **759**, 479 (2016)
CMS-SUS-14-016, CERN-EP-2016-012
 187. **"Search for heavy resonances decaying to two Higgs bosons in final states containing**

four b quarks”

- V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.08762 [hep-ex]
DOI:10.1140/epjc/s10052-016-4206-6
Eur. Phys. J. C **76**, no. 7, 371 (2016)
CMS-EXO-12-053, CERN-EP-2016-041
188. **“Measurement of the $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ trilinear gauge boson couplings”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.07152 [hep-ex]
DOI:10.1016/j.physletb.2016.06.080
Phys. Lett. B **760**, 448 (2016)
CMS-SMP-14-019, CERN-EP-2016-007
189. **“Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.06581 [hep-ex]
DOI:10.1016/j.physletb.2016.05.002
Phys. Lett. B **758**, 152 (2016)
CMS-SUS-15-002, CERN-EP-2016-036, FERMILAB-PUB-16-056-CMS
190. **“Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.04384 [hep-ex]
DOI:10.1140/epjc/s10052-016-4346-8
Eur. Phys. J. C **76**, no. 10, 536 (2016)
CMS-SMP-14-015, CERN-EP-2016-013, CERN-SMP-14-015
191. **“Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.04334 [hep-ex]
DOI:10.1016/j.physletb.2016.06.039
Phys. Lett. B **760**, 178 (2016)
CMS-EXO-14-013, CERN-EP-2016-005
192. **“Combined search for anomalous pseudoscalar HVV couplings in $VH(H \rightarrow b\bar{b})$ production and $H \rightarrow VV$ decay”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.04305 [hep-ex]
DOI:10.1016/j.physletb.2016.06.004
Phys. Lett. B **759**, 672 (2016)
CMS-HIG-14-035, CERN-PH-EP-2015-331
193. **“Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1602.03169 [hep-ex]
DOI:10.1007/JHEP07(2016)027, 10.1007/JHEP09(2016)056
JHEP **1607**, 027 (2016), Erratum: [JHEP **1609**, 056 (2016)]
CMS-SUS-14-015, CERN-EP-2016-004
194. **“Search for supersymmetry in pp collisions at $\sqrt{s} = 8$ TeV in final states with boosted W bosons and b jets using razor variables”**
V. Khachatryan *et al.* [CMS Collaboration].

- arXiv:1602.02917 [hep-ex]
DOI:10.1103/PhysRevD.93.092009
Phys. Rev. D **93**, no. 9, 092009 (2016)
CMS-SUS-14-007, CERN-EP-2016-008
195. **“Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1601.06713 [hep-ex]
DOI:10.1007/JHEP08(2016)139
JHEP **1608**, 139 (2016)
CMS-FSQ-12-002, CERN-PH-EP-2015-309
 196. **“Search for massive WH resonances decaying into the $\ell\nu b\bar{b}$ final state at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1601.06431 [hep-ex]
DOI:10.1140/epjc/s10052-016-4067-z
Eur. Phys. J. C **76**, no. 5, 237 (2016)
CMS-EXO-14-010, CERN-PH-EP-2015-332
 197. **“Forward–backward asymmetry of Drell–Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1601.04768 [hep-ex]
DOI:10.1140/epjc/s10052-016-4156-z
Eur. Phys. J. C **76**, no. 6, 325 (2016)
CMS-SMP-14-004, CERN-PH-EP-2015-295
 198. **“Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1601.02001 [nucl-ex]
DOI:10.1140/epjc/s10052-016-4205-7
Eur. Phys. J. C **76**, no. 7, 372 (2016)
CMS-HIN-14-001, CERN-PH-EP-2015-334
 199. **“Measurements of t t-bar spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1601.01107 [hep-ex]
DOI:10.1103/PhysRevD.93.052007
Phys. Rev. D **93**, no. 5, 052007 (2016)
CMS-TOP-14-023, CERN-PH-EP-2015-333
 200. **“Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1601.00079 [nucl-ex]
DOI:10.1007/JHEP02(2016)156
JHEP **1602**, 156 (2016)
CMS-HIN-14-016, CERN-PH-EP-2015-329
 201. **“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”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1512.08377 [hep-ex]
DOI:10.1007/JHEP04(2016)005

- JHEP **1604**, 005 (2016)
CMS-HIG-14-028, CERN-PH-EP-2015-285
202. **“Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton–proton collisions at $\sqrt{s}=8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1512.08002 [hep-ex]
DOI:10.1016/j.physletb.2016.05.033
Phys. Lett. B **759**, 9 (2016)
CMS-SUS-14-021, CERN-PH-EP-2015-307
203. **“Study of Z boson production in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1512.06461 [hep-ex]
DOI:10.1016/j.physletb.2016.05.044
Phys. Lett. B **759**, 36 (2016)
CMS-HIN-15-002, CERN-PH-EP-2015-302
204. **“Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1512.06212 [hep-ex]
DOI:10.1140/epjc/s10052-016-4083-z
Eur. Phys. J. C **76**, no. 5, 265 (2016)
CMS-SMP-14-017, CERN-PH-EP-2015-299
205. **“Search for narrow resonances decaying to dijets in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1512.01224 [hep-ex]
DOI:10.1103/PhysRevLett.116.071801
Phys. Rev. Lett. **116**, no. 7, 071801 (2016)
CMS-EXO-15-001, CERN-PH-EP-2015-317
206. **“Event generator tunes obtained from underlying event and multiparton scattering measurements”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1512.00815 [hep-ex]
DOI:10.1140/epjc/s10052-016-3988-x
Eur. Phys. J. C **76**, no. 3, 155 (2016)
CMS-GEN-14-001, CERN-PH-EP-2015-291
207. **“Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1511.09375 [hep-ex]
DOI:10.1103/PhysRevD.93.052011
Phys. Rev. D **93**, no. 5, 052011 (2016)
CMS-EXO-12-054, CERN-PH-EP-2015-297
208. **“Measurement of spin correlations in $t\bar{t}$ production using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1511.06170 [hep-ex]
DOI:10.1016/j.physletb.2016.05.005
Phys. Lett. B **758**, 321 (2016)
CMS-TOP-13-015, CERN-PH-EP-2015-289, FERMILAB-PUB-15-512-CMS
209. **“Search for anomalous single top quark production in association with a photon in pp**

collisions at $\sqrt{s} = 8$ TeV"

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1511.03951 [hep-ex]
DOI:10.1007/JHEP04(2016)035
JHEP **1604**, 035 (2016)
CMS-TOP-14-003, CERN-PH-EP-2015-287

210. **"Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1511.03610 [hep-ex]
DOI:10.1016/j.physletb.2016.05.003
Phys. Lett. B **758**, 296 (2016)
CMS-HIG-14-033, CERN-PH-EP-2015-284, FERMILAB-PUB-15-514-CMS

211. **"Measurement of top quark polarisation in t-channel single top quark production"**

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1511.02138 [hep-ex]
DOI:10.1007/JHEP04(2016)073
JHEP **1604**, 073 (2016)
CMS-TOP-13-001, CERN-PH-EP-2015-282

212. **"Search for excited leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1511.01407 [hep-ex]
DOI:10.1007/JHEP03(2016)125
JHEP **1603**, 125 (2016)
CMS-EXO-14-015, CERN-PH-EP-2015-281

213. **"Reconstruction and identification of $\tilde{l}_i \tilde{l}_j^*$ lepton decays to hadrons and $\tilde{l}_i \tilde{l}_j^*$ at CMS"**

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.07488 [physics.ins-det]
DOI:10.1088/1748-0221/11/01/P01019
JINST **11**, no. 01, P01019 (2016)
CMS-TAU-14-001, CERN-PH-EP-2015-261

214. **"Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into τ leptons in pp collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.06534 [hep-ex]
DOI:10.1007/JHEP01(2016)079
JHEP **1601**, 079 (2016)
CMS-HIG-14-019, CERN-PH-EP-2015-264

215. **"Measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.05302 [hep-ex]
DOI:10.1103/PhysRevLett.116.052002
Phys. Rev. Lett. **116**, no. 5, 052002 (2016)
CMS-TOP-15-003, CERN-PH-EP-2015-280

216. **"Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.04252 [hep-ex]
DOI:10.1007/JHEP12(2015)178
JHEP **1512**, 178 (2015)

- CMS-HIG-13-035, CERN-PH-EP-2015-266
217. **“Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.03373 [nucl-ex]
DOI:10.1016/j.physletb.2016.01.010
Phys. Lett. B **754**, 59 (2016)
CMS-HIN-14-007, CERN-PH-EP-2015-205
218. **“Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.03072 [hep-ex]
DOI:10.1140/epjc/s10052-016-4105-x
Eur. Phys. J. C **76**, no. 7, 379 (2016)
CMS-TOP-12-041, CERN-PH-EP-2015-240
219. **“Measurement of long-range near-side two-particle angular correlations in pp collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.03068 [nucl-ex]
DOI:10.1103/PhysRevLett.116.172302
Phys. Rev. Lett. **116**, no. 17, 172302 (2016)
CMS-FSQ-15-002, CERN-PH-EP-2015-271
220. **“Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau\tau$ ”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.01181 [hep-ex]
DOI:10.1016/j.physletb.2016.01.056
Phys. Lett. B **755**, 217 (2016)
CMS-HIG-14-034, CERN-PH-EP-2015-211
221. **“Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1510.01131 [hep-ex]
DOI:10.1007/JHEP01(2016)096
JHEP **1601**, 096 (2016)
CMS-TOP-14-021, CERN-PH-EP-2015-248
222. **“Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.09029 [nucl-ex]
DOI:10.1007/JHEP01(2016)006
JHEP **1601**, 006 (2016)
CMS-HIN-14-010, CERN-PH-EP-2015-260
223. **“Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.08159 [hep-ex]
DOI:10.1007/JHEP06(2016)177
JHEP **1606**, 177 (2016)
CMS-HIG-14-027, CERN-PH-EP-2015-255

224. **“Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.08141 [hep-ex]
DOI:10.1007/JHEP01(2016)166
JHEP **1601**, 166 (2016)
CMS-B2G-14-005, CERN-PH-EP-2015-246
225. **“Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.06076 [hep-ex]
DOI:10.1140/epjc/s10052-016-3956-5
Eur. Phys. J. C **76**, no. 3, 128 (2016)
CMS-TOP-14-018, CERN-PH-EP-2015-243
226. **“Search for $W' \rightarrow tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.06051 [hep-ex]
DOI:10.1007/JHEP02(2016)122
JHEP **1602**, 122 (2016)
CMS-B2G-12-009, CERN-PH-EP-2015-231
227. **“Search for vector-like charge 2/3 T quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.04177 [hep-ex]
DOI:10.1103/PhysRevD.93.012003
Phys. Rev. D **93**, no. 1, 012003 (2016)
CMS-B2G-13-005, CERN-PH-EP-2015-228
228. **“Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 7$ and 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.04044 [hep-ex]
DOI:10.1103/PhysRevD.93.072004
Phys. Rev. D **93**, no. 7, 072004 (2016)
CMS-TOP-14-022, CERN-PH-EP-2015-234
229. **“Measurement of the inelastic cross section in proton–lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.03893 [hep-ex]
DOI:10.1016/j.physletb.2016.06.027
Phys. Lett. B **759**, 641 (2016)
CMS-FSQ-13-006, CERN-PH-EP-2015-210
230. **“Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1509.03750 [hep-ex]
DOI:10.1103/PhysRevD.95.039906, 10.1103/PhysRevD.93.032005
Phys. Rev. D **93**, no. 3, 032005 (2016), Erratum: [Phys. Rev. D **95**, no. 3, 039906 (2017)]
CMS-EXO-12-043, CERN-PH-EP-2015-149
231. **“Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].

- arXiv:1509.03744 [hep-ex]
DOI:10.1103/PhysRevD.93.032004
Phys. Rev. D **93**, no. 3, 032004 (2016)
CMS-EXO-12-041, CERN-PH-EP-2015-197
232. **“Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.07819 [hep-ex]
DOI:10.1140/epjc/s10052-015-3853-3
Eur. Phys. J. C **76**, no. 1, 13 (2016)
CMS-HIG-14-016, CERN-PH-EP-2015-195
233. **“Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.07774 [hep-ex]
DOI:10.1007/JHEP11(2015)018
JHEP **1511**, 018 (2015)
CMS-HIG-14-023, CERN-PH-EP-2015-221
234. **“Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.07628 [hep-ex]
DOI:10.1007/JHEP11(2015)189
JHEP **1511**, 189 (2015)
CMS-SUS-14-005, CERN-PH-EP-2015-213
235. **“Study of B Meson Production in p+Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV Using Exclusive Hadronic Decays”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.06678 [nucl-ex]
DOI:10.1103/PhysRevLett.116.032301
Phys. Rev. Lett. **116**, no. 3, 032301 (2016)
CMS-HIN-14-004, CERN-PH-EP-2015-209
236. **“Search for W’ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.04308 [hep-ex]
DOI:10.1016/j.physletb.2016.02.002
Phys. Lett. B **755**, 196 (2016)
CMS-EXO-12-011, CERN-PH-EP-2015-190
237. **“Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV using a template method”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.03862 [hep-ex]
DOI:10.1103/PhysRevD.93.034014
Phys. Rev. D **93**, no. 3, 034014 (2016)
CMS-TOP-13-013, CERN-PH-EP-2015-189
238. **“Search for neutral MSSM Higgs bosons decaying to $\mu^+\mu^-$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.01437 [hep-ex]
DOI:10.1016/j.physletb.2015.11.042

- Phys. Lett. B **752**, 221 (2016)
CMS-HIG-13-024, CERN-PH-EP-2015-148
239. **“Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1508.01218 [hep-ex]
DOI:10.1016/j.physletb.2016.03.039
Phys. Lett. B **757**, 6 (2016)
CMS-SUS-14-013, CERN-PH-EP-2015-169
240. **“Angular analysis of the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ from pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.08126 [hep-ex]
DOI:10.1016/j.physletb.2015.12.020
Phys. Lett. B **753**, 424 (2016)
CMS-BPH-13-010, CERN-PH-EP-2015-178
241. **“Measurement of the CP-violating weak phase ϕ_s and the decay width difference $\Delta\Gamma_s$ using the $B_s^0 \rightarrow J/\psi\phi(1020)$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.07527 [hep-ex]
DOI:10.1016/j.physletb.2016.03.046
Phys. Lett. B **757**, 97 (2016)
CMS-BPH-13-012, CERN-PH-EP-2015-192
242. **“Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $\sqrt{s} = 2.76$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.07229 [hep-ex]
DOI:10.1007/JHEP09(2015)137
JHEP **1509**, 137 (2015)
CMS-FSQ-12-025, CERN-PH-EP-2015-176
243. **“Search for pair-produced vectorlike B quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.07129 [hep-ex]
DOI:10.1103/PhysRevD.93.112009
Phys. Rev. D **93**, no. 11, 112009 (2016)
CMS-B2G-13-006, CERN-PH-EP-2015-170
244. **“Limits on the Higgs boson lifetime and width from its decay to four charged leptons”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.06656 [hep-ex]
DOI:10.1103/PhysRevD.92.072010
Phys. Rev. D **92**, no. 7, 072010 (2015)
CMS-HIG-14-036, CERN-PH-EP-2015-159
245. **“Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.05915 [hep-ex]
DOI:10.1016/j.physletb.2015.10.004
Phys. Lett. B **751**, 143 (2015)
CMS-FSQ-15-001, CERN-PH-EP-2015-180
246. **“Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings”**

- V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.03268 [hep-ex]
DOI:10.1140/epjc/s10052-016-4219-1
Eur. Phys. J. C **76**, no. 7, 401 (2016)
CMS-SMP-14-016, CERN-PH-EP-2015-122
247. **“Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.03119 [hep-ex]
DOI:10.1016/j.physletb.2016.03.060
Phys. Lett. B **757**, 154 (2016)
CMS-TOP-12-033, CERN-PH-EP-2015-141
248. **“Search for a Higgs boson decaying into $\gamma^*\gamma \rightarrow \ell\ell\gamma$ with low dilepton mass in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.03031 [hep-ex]
DOI:10.1016/j.physletb.2015.12.039
Phys. Lett. B **753**, 341 (2016)
CMS-HIG-14-003, CERN-PH-EP-2015-137
249. **“Search for supersymmetry with photons in pp collisions at $\sqrt{s}=8\text{ TeV}$ ”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.02898 [hep-ex]
DOI:10.1103/PhysRevD.92.072006
Phys. Rev. D **92**, no. 7, 072006 (2015)
CMS-SUS-14-004, CERN-PH-EP-2015-129
250. **“Search for exotic decays of a Higgs boson into undetectable particles and one or more photons”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.00359 [hep-ex]
DOI:10.1016/j.physletb.2015.12.017
Phys. Lett. B **753**, 363 (2016)
CMS-HIG-14-025, CERN-PH-EP-2015-131
251. **“Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1507.00233 [hep-ex]
DOI:10.1103/PhysRevD.92.112001
Phys. Rev. D **92**, no. 11, 112001 (2015)
CMS-FSQ-12-032, CERN-PH-EP-2015-135
252. **“Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1506.08329 [hep-ex]
DOI:10.1007/JHEP11(2015)071
JHEP **1511**, 071 (2015)
CMS-HIG-14-017, CERN-PH-EP-2015-133
253. **“ZZ Cross Section Measurements and Limits on Anomalous Coupling Constants for Neutral Triple Gauge Boson”**
L. PerniŹ.
DOI:10.1142/9789814663618_0029
CMS-CR-2013-453

254. **"Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$ "**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1506.03062 [hep-ex]
DOI:10.1103/PhysRevD.93.012001
Phys. Rev. D **93**, no. 1, 012001 (2016)
CMS-B2G-13-008, CERN-PH-EP-2015-126
255. **"Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s} = 8\text{ TeV}$ "**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1506.02301 [hep-ex]
DOI:10.1016/j.physletb.2015.09.062
Phys. Lett. B **750**, 494 (2015)
CMS-HIG-14-006, CERN-PH-EP-2015-113
256. **"Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$ "**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1506.01443 [hep-ex]
DOI:10.1007/JHEP02(2016)145
JHEP **1602**, 145 (2016)
CMS-EXO-14-009, CERN-PH-EP-2015-096
257. **"Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$ "**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1506.01010 [hep-ex]
DOI:10.1103/PhysRevD.92.032008
Phys. Rev. D **92**, no. 3, 032008 (2015)
CMS-14-004, CERN-PH-EP-2015-121, CMS-HIG-14-004
258. **"A search for pair production of new light bosons decaying into muons"**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1506.00424 [hep-ex]
DOI:10.1016/j.physletb.2015.10.067
Phys. Lett. B **752**, 146 (2016)
CMS-HIG-13-010, CERN-PH-EP-2015-116
259. **"Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$ "**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1505.08118 [hep-ex]
DOI:10.1007/JHEP09(2015)201
JHEP **1509**, 201 (2015)
CMS-EXO-12-007, CERN-PH-EP-2015-119
260. **"Comparison of the $Z/\gamma^{\ast} + \text{jets}$ to $\gamma + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8\text{ TeV}$ "**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1505.06520 [hep-ex]
DOI:10.1007/JHEP04(2016)010, 10.1007/JHEP10(2015)128
JHEP **1510**, 128 (2015), Erratum: [JHEP **1604**, 010 (2016)]
CMS-SMP-14-005, CERN-PH-EP-2015-089
261. **"Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8\text{ TeV}$ "**
V. Khachatryan *et al.* [CMS Collaboration].

- arXiv:1505.04480 [hep-ex]
DOI:10.1140/epjc/s10052-015-3709-x
Eur. Phys. J. C **75**, no. 11, 542 (2015)
CMS-TOP-12-028, CERN-PH-EP-2015-117
262. **“Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $\tilde{d}\tilde{s}^+ \tilde{d}\tilde{s}^0 \tilde{L}\tilde{S} b\bar{b}$ final states”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1504.04710 [hep-ex]
DOI:10.1016/j.physletb.2015.07.010
Phys. Lett. B **748**, 221 (2015)
CMS-HIG-14-011, CERN-PH-EP-2015-088
263. **“Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s} = 8$ TeV and decaying to $\mu^+\mu^-$ as a function of transverse momentum and rapidity”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1504.03512 [hep-ex]
DOI:10.1016/j.physletb.2015.08.061
Phys. Lett. B **750**, 154 (2015)
CMS-SMP-13-010, CERN-PH-EP-2015-046
264. **“Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton–proton collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1504.03511 [hep-ex]
DOI:10.1016/j.physletb.2015.07.065
Phys. Lett. B **749**, 187 (2015)
CMS-SMP-13-013, CERN-PH-EP-2015-059
265. **“Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1504.03198 [hep-ex]
DOI:10.1007/JHEP06(2015)121
JHEP **1506**, 121 (2015)
CMS-B2G-14-004, CERN-PH-EP-2015-087
266. **“Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1504.00936 [hep-ex]
DOI:10.1007/JHEP10(2015)144
JHEP **1510**, 144 (2015)
CMS-HIG-13-031, CERN-PH-EP-2015-074
267. **“Search for Third-Generation Scalar Leptoquarks in the $t\tau$ Channel in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.09049 [hep-ex]
DOI:10.1007/JHEP11(2016)056, 10.1007/JHEP07(2015)042
JHEP **1507**, 042 (2015), Erratum: [JHEP **1611**, 056 (2016)]
CMS-EXO-14-008, CERN-PH-EP-2015-063
268. **“Measurement of diffraction dissociation cross sections in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.08689 [hep-ex]
DOI:10.1103/PhysRevD.92.012003

- Phys. Rev. D **92**, no. 1, 012003 (2015)
CMS-FSQ-12-005, CERN-PH-EP-2015-062
269. **“Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.08037 [hep-ex]
DOI:10.1007/JHEP06(2015)116
JHEP **1506**, 116 (2015)
CMS-SUS-14-001, CERN-PH-EP-2015-055
270. **“Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments”**
G. Aad *et al.* [ATLAS and CMS Collaborations].
arXiv:1503.07589 [hep-ex]
DOI:10.1103/PhysRevLett.114.191803
Phys. Rev. Lett. **114**, 191803 (2015)
ATLAS-HIGG-2014-14, CMS-HIG-14-042, CERN-PH-EP-2015-075
271. **“Study of W boson production in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.05825 [nucl-ex]
DOI:10.1016/j.physletb.2015.09.057
Phys. Lett. B **750**, 565 (2015)
CMS-HIN-13-007, CERN-PH-EP-2015-054
272. **“Measurements of the Z Z production cross sections in the $2l2\nu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV and combined constraints on triple gauge couplings”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.05467 [hep-ex]
DOI:10.1140/epjc/s10052-015-3706-0
Eur. Phys. J. C **75**, no. 10, 511 (2015)
CMS-SMP-12-016, CERN-PH-EP-2015-029
273. **“Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.04114 [hep-ex]
DOI:10.1016/j.physletb.2015.08.047
Phys. Lett. B **749**, 560 (2015)
CMS-HIG-14-013, CERN-PH-EP-2015-042
274. **“Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.01952 [hep-ex]
DOI:10.1007/JHEP06(2015)080
JHEP **1506**, 080 (2015)
CMS-B2G-14-002, CERN-PH-EP-2015-034
275. **“Evidence for transverse momentum and pseudorapidity dependent event plane fluctuations in PbPb and pPb collisions”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1503.01692 [nucl-ex]
DOI:10.1103/PhysRevC.92.034911
Phys. Rev. C **92**, no. 3, 034911 (2015)
CMS-HIN-14-012, CERN-PH-EP-2015-039

276. **“Study of Final-State Radiation in Decays of Z Bosons Produced in pp Collisions at 7 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.07940 [hep-ex]
DOI:10.1103/PhysRevD.91.092012
Phys. Rev. D **91**, no. 9, 092012 (2015)
CMS-EWK-11-016, CERN-PH-EP-2015-031
277. **“Search for Lepton-Flavour-Violating Decays of the Higgs Boson”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.07400 [hep-ex]
DOI:10.1016/j.physletb.2015.07.053
Phys. Lett. B **749**, 337 (2015)
CMS-HIG-14-005, CERN-PH-EP-2015-027
278. **“Search for Physics Beyond the Standard Model in Events with Two Leptons, Jets, and Missing Transverse Momentum in pp Collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.06031 [hep-ex]
DOI:10.1007/JHEP04(2015)124
JHEP **1504**, 124 (2015)
CMS-SUS-14-014, CERN-PH-EP-2015-033
279. **“Measurement of the $Z\tilde{\chi}_1^0$ Production Cross Section in pp Collisions at 8 TeV and Search for Anomalous Triple Gauge Boson Couplings”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.05664 [hep-ex]
DOI:10.1007/JHEP04(2015)164
JHEP **1504**, 164 (2015)
CMS-SMP-13-014, CERN-PH-EP-2014-303
280. **“Nuclear Effects on the Transverse Momentum Spectra of Charged Particles in pPb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.05387 [nucl-ex]
DOI:10.1140/epjc/s10052-015-3435-4
Eur. Phys. J. C **75**, no. 5, 237 (2015)
CMS-HIN-12-017, CERN-PH-EP-2014-282
281. **“Evidence for Collective Multiparticle Correlations in p-Pb Collisions”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.05382 [nucl-ex]
DOI:10.1103/PhysRevLett.115.012301
Phys. Rev. Lett. **115**, no. 1, 012301 (2015)
CMS-HIN-14-006, CERN-PH-EP-2015-011
282. **“Search for Narrow High-Mass Resonances in Proton–Proton Collisions at $\sqrt{s} = 8$ TeV Decaying to a Z and a Higgs Boson”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.04994 [hep-ex]
DOI:10.1016/j.physletb.2015.07.011
Phys. Lett. B **748**, 255 (2015)
CMS-EXO-13-007, CERN-PH-EP-2015-010
283. **“Distributions of Topological Observables in Inclusive Three- and Four-Jet Events in pp Collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].

- arXiv:1502.04785 [hep-ex]
 DOI:10.1140/epjc/s10052-015-3491-9
 Eur. Phys. J. C **75**, no. 7, 302 (2015)
 CMS-QCD-11-006, CERN-PH-EP-2014-302
284. **“Searches for Supersymmetry using the M_{T2} Variable in Hadronic Events Produced in pp Collisions at 8 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1502.04358 [hep-ex]
 DOI:10.1007/JHEP05(2015)078
 JHEP **1505**, 078 (2015)
 CMS-SUS-13-019, CERN-PH-EP-2015-017
285. **“Measurement of J/ψ and $\Upsilon(2S)$ Prompt Double-Differential Cross Sections in pp Collisions at $\sqrt{s}=7\text{--}8\text{ TeV}$ ”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1502.04155 [hep-ex]
 DOI:10.1103/PhysRevLett.114.191802
 Phys. Rev. Lett. **114**, no. 19, 191802 (2015)
 CMS-BPH-14-001, CERN-PH-EP-2015-022
286. **“Performance of Photon Reconstruction and Identification with the CMS Detector in Proton-Proton Collisions at $\sqrt{s} = 8\text{ TeV}$ ”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1502.02702 [physics.ins-det]
 DOI:10.1088/1748-0221/10/08/P08010
 JINST **10**, no. 08, P08010 (2015)
 CMS-EGM-14-001, CERN-PH-EP-2015-006
287. **“Performance of Electron Reconstruction and Selection with the CMS Detector in Proton-Proton Collisions at $\sqrt{s} = 8\text{ TeV}$ ”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1502.02701 [physics.ins-det]
 DOI:10.1088/1748-0221/10/06/P06005
 JINST **10**, no. 06, P06005 (2015)
 CMS-EGM-13-001, CERN-PH-EP-2015-004
288. **“Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$ ”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1502.02522 [hep-ex]
 DOI:10.1140/epjc/s10052-015-3533-3
 Eur. Phys. J. C **75**, no. 7, 325 (2015)
 CMS-EXO-13-006, CERN-PH-EP-2015-014
289. **“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”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1502.02485 [hep-ex]
 DOI:10.1140/epjc/s10052-015-3454-1
 Eur. Phys. J. C **75**, no. 6, 251 (2015)
 CMS-HIG-14-010, CERN-PH-EP-2015-016
290. **“Search for Supersymmetry Using Razor Variables in Events with b -Tagged Jets in pp Collisions at $\sqrt{s} = 8\text{ TeV}$ ”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1502.00300 [hep-ex]

- DOI:10.1103/PhysRevD.91.052018
 Phys. Rev. D **91**, 052018 (2015)
 CMS-SUS-13-004, CERN-PH-EP-2015-005
291. **“Measurements of the $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1501.07750 [hep-ex]
 DOI:10.1016/j.physletb.2015.07.037
 Phys. Lett. B **749**, 14 (2015)
 CMS-BPH-12-006, CERN-PH-EP-2015-007
292. **“Measurement of the ratio $B(B_s^0 \rightarrow J/\psi f_0(980)) / B(B_s^0 \rightarrow J/\psi \phi(1020))$ in pp collisions at $\sqrt{s} = 7$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1501.06089 [hep-ex]
 DOI:10.1016/j.physletb.2016.02.047
 Phys. Lett. B **756**, 84 (2016)
 CMS-BPH-14-002, CERN-PH-EP-2015-003
293. **“Search for Decays of Stopped Long-Lived Particles Produced in Proton–Proton Collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1501.05603 [hep-ex]
 DOI:10.1140/epjc/s10052-015-3367-z
 Eur. Phys. J. C **75**, no. 4, 151 (2015)
 CMS-EXO-12-036, CERN-PH-EP-2015-002
294. **“Search for heavy Majorana neutrinos in $\mu^\pm \mu^\pm +$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1501.05566 [hep-ex]
 DOI:10.1016/j.physletb.2015.06.070
 Phys. Lett. B **748**, 144 (2015)
 CMS-EXO-12-057, CERN-PH-EP-2015-001
295. **“Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1501.04198 [hep-ex]
 DOI:10.1103/PhysRevD.91.052009
 Phys. Rev. D **91**, no. 5, 052009 (2015)
 CMS-EXO-12-059, CERN-PH-EP-2014-300
296. **“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”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1412.8662 [hep-ex]
 DOI:10.1140/epjc/s10052-015-3351-7
 Eur. Phys. J. C **75**, no. 5, 212 (2015)
 CMS-HIG-14-009, CERN-PH-EP-2014-288
297. **“Search for pair-produced resonances decaying to jet pairs in proton–proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1412.7706 [hep-ex]
 DOI:10.1016/j.physletb.2015.04.045

- Phys. Lett. B **747**, 98 (2015)
CMS-EXO-12-052, CERN-PH-EP-2014-293
298. **“Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.6302 [hep-ex]
DOI:10.1007/JHEP04(2015)025
JHEP **1504**, 025 (2015)
CMS-EXO-12-061, CERN-PH-EP-2014-272
299. **“Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.4109 [hep-ex]
DOI:10.1016/j.physletb.2015.04.002
Phys. Lett. B **745**, 5 (2015)
CMS-SUS-14-010, CERN-PH-EP-2014-286
300. **“Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.1633 [hep-ex]
DOI:10.1140/epjc/s10052-015-3376-y
Eur. Phys. J. C **75**, no. 5, 186 (2015)
CMS-SMP-12-027, CERN-PH-EP-2014-287
301. **“Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.1115 [hep-ex]
DOI:10.1140/epjc/s10052-015-3364-2
Eur. Phys. J. C **75**, no. 4, 147 (2015)
CMS-SMP-14-003, CERN-PH-EP-2014-289
302. **“Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.7255 [hep-ex]
DOI:10.1016/j.physletb.2015.03.017
Phys. Lett. B **743**, 503 (2015)
CMS-SUS-14-009, CERN-PH-EP-2014-277
303. **“Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.6977 [hep-ex]
DOI:10.1103/PhysRevD.91.052012
Phys. Rev. D **91**, no. 5, 052012 (2015)
CMS-EXO-12-037, CERN-PH-EP-2014-263
304. **“Search for Long-Lived Neutral Particles Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.6530 [hep-ex]
DOI:10.1103/PhysRevD.91.012007

- Phys. Rev. D **91**, no. 1, 012007 (2015)
CMS-EXO-12-038, CERN-PH-EP-2014-256
305. **“Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.6006 [hep-ex]
DOI:10.1007/JHEP01(2015)096
JHEP **1501**, 096 (2015)
CMS-EXO-12-034, CERN-PH-EP-2014-273
306. **“Measurement of the cross section ratio $\sigma_{t\bar{t}b\bar{b}}/\sigma_{t\bar{t}jj}$ in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.5621 [hep-ex]
DOI:10.1016/j.physletb.2015.04.060
Phys. Lett. B **746**, 132 (2015)
CMS-TOP-13-010, CERN-PH-EP-2014-249
307. **“Observation of the rare $B_s^0 \rightarrow \mu^+\mu^-$ decay from the combined analysis of CMS and LHCb data”**
V. Khachatryan *et al.* [CMS and LHCb Collaborations].
arXiv:1411.4413 [hep-ex]
DOI:10.1038/nature14474
Nature **522**, 68 (2015)
CERN-PH-EP-2014-220, CMS-BPH-13-007, LHCb-PAPER-2014-049
308. **“Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.3441 [hep-ex]
DOI:10.1103/PhysRevD.92.012004
Phys. Rev. D **92**, no. 1, 012004 (2015)
CMS-HIG-14-018, CERN-PH-EP-2014-265
309. **“Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton–proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.2646 [hep-ex]
DOI:10.1016/j.physletb.2015.04.042
Phys. Lett. B **746**, 79 (2015)
CMS-EXO-12-050, CERN-PH-EP-2014-261
310. **“Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.0511 [physics.ins-det]
DOI:10.1088/1748-0221/10/02/P02006
JINST **10**, no. 02, P02006 (2015)
CMS-JME-13-003, CERN-PH-EP-2014-246
311. **“Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.8812 [hep-ex]
DOI:10.1016/j.physletb.2016.01.057
Phys. Lett. B **755**, 102 (2016)
CMS-EXO-12-047, CERN-PH-EP-2014-253
312. **“Constraints on parton distribution functions and extraction of the strong coupling con-**

stant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV"

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1410.6765 [hep-ex]

DOI:10.1140/epjc/s10052-015-3499-1

Eur. Phys. J. C **75**, no. 6, 288 (2015)

CMS-SMP-12-028, CERN-PH-EP-2014-238

313. **"Search for a standard model-like Higgs boson in the $\hat{t}\hat{t}j^+\hat{t}j^+\hat{L}\hat{L}$ and $e^+e^+\hat{L}\hat{L}$ decay channels at the LHC"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1410.6679 [hep-ex]

DOI:10.1016/j.physletb.2015.03.048

Phys. Lett. B **744**, 184 (2015)

CMS-HIG-13-007, CERN-PH-EP-2014-243

314. **"Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1410.6315 [hep-ex]

DOI:10.1103/PhysRevLett.114.051801

Phys. Rev. Lett. **114**, no. 5, 051801 (2015)

CMS-SMP-13-015, CERN-PH-EP-2014-250

315. **"Measurement of the ratio of the production cross sections times branching fractions of $B_c^\pm \rightarrow J/\psi\pi^\pm$ and $B^\pm \rightarrow J/\psi K^\pm$ and $\mathcal{B}(B_c^\pm \rightarrow J/\psi\pi^\pm\pi^\pm\pi^\mp)/\mathcal{B}(B_c^\pm \rightarrow J/\psi\pi^\pm)$ in pp collisions at $\sqrt{s} = 7$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1410.5729 [hep-ex]

DOI:10.1007/JHEP01(2015)063

JHEP **1501**, 063 (2015)

CMS-BPH-12-011, CERN-PH-EP-2014-248

316. **"Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels"**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1410.4825 [nucl-ex]

DOI:10.1007/JHEP03(2015)022

JHEP **1503**, 022 (2015)

CMS-HIN-13-004, CERN-PH-EP-2014-235

317. **"Identification techniques for highly boosted W bosons that decay into hadrons"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1410.4227 [hep-ex]

DOI:10.1007/JHEP12(2014)017

JHEP **1412**, 017 (2014)

CMS-JME-13-006, CERN-PH-EP-2014-241

318. **"Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1410.3153 [hep-ex]

DOI:10.1140/epjc/s10052-014-3232-5

Eur. Phys. J. C **75**, no. 2, 66 (2015)

CMS-FSQ-12-035, CERN-PH-EP-2014-234

319. **"Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t\hat{a}\hat{E}\hat{S}ch$ decay using multilepton and diphoton final states in pp collisions at 8 TeV"**

- V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.2751 [hep-ex]
DOI:10.1103/PhysRevD.90.112013
Phys. Rev. D **90**, 112013 (2014)
CMS-HIG-13-025, CERN-PH-EP-2014-239
320. **“Measurement of Prompt $\psi(2S) \rightarrow J/\psi$ Yield Ratios in Pb-Pb and $p - p$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.1804 [nucl-ex]
DOI:10.1103/PhysRevLett.113.262301
Phys. Rev. Lett. **113**, no. 26, 262301 (2014)
CMS-HIN-12-007, CERN-PH-EP-2014-240
321. **“Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.1154 [hep-ex]
DOI:10.1007/JHEP01(2015)053
JHEP **1501**, 053 (2015)
CMS-TOP-12-020, CERN-PH-EP-2014-242
322. **“Search for Monotop Signatures in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.1149 [hep-ex]
DOI:10.1103/PhysRevLett.114.101801
Phys. Rev. Lett. **114**, no. 10, 101801 (2015)
CMS-B2G-12-022, CERN-PH-EP-2014-225
323. **“Search for Standard Model Production of Four Top Quarks in the Lepton + Jets Channel in pp Collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1409.7339 [hep-ex]
DOI:10.1007/JHEP11(2014)154
JHEP **1411**, 154 (2014)
CMS-TOP-13-012, CERN-PH-EP-2014-222
324. **“Measurement of the production cross section ratio $\sigma(\text{Xb2}(1P)) / \sigma(\text{Xb1}(1P))$ in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1409.5761 [hep-ex]
DOI:10.1016/j.physletb.2015.02.048
Phys. Lett. B **743**, 383 (2015)
CMS-BPH-13-005, CERN-PH-EP-2014-217
325. **“Search for Displaced Supersymmetry in events with an electron and a muon with large impact parameters”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1409.4789 [hep-ex]
DOI:10.1103/PhysRevLett.114.061801
Phys. Rev. Lett. **114**, no. 6, 061801 (2015)
CMS-B2G-12-024, CERN-PH-EP-2014-219
326. **“Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1409.3392 [nucl-ex]

- DOI:10.1016/j.physletb.2015.01.034
 Phys. Lett. B **742**, 200 (2015)
 CMS-HIN-14-002, CERN-PH-EP-2014-212
327. **“Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1409.3168 [hep-ex]
 DOI:10.1103/PhysRevD.90.092007
 Phys. Rev. D **90**, no. 9, 092007 (2014)
 CMS-SUS-14-002, CERN-PH-EP-2014-216
328. **“ZZ cross section measurement and limits on anomalous Triple Gauge Couplings at CMS experiment (preliminary results)”**
 L. Pernie [CMS Collaboration].
 arXiv:1409.1740 [hep-ex]
 CMS-CR-2014-181
329. **“Search for dark matter, extra dimensions, and unparticles in monojet events in proton–proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1408.3583 [hep-ex]
 DOI:10.1140/epjc/s10052-015-3451-4
 Eur. Phys. J. C **75**, no. 5, 235 (2015)
 CMS-EXO-12-048, CERN-PH-EP-2014-164
330. **“Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1408.3316 [hep-ex]
 DOI:10.1007/JHEP10(2014)160
 JHEP **1410**, 160 (2014)
 CMS-HIG-13-021, CERN-PH-EP-2014-192
331. **“Measurements of jet multiplicity and differential production cross sections of Z + jets events in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1408.3104 [hep-ex]
 DOI:10.1103/PhysRevD.91.052008
 Phys. Rev. D **91**, no. 5, 052008 (2015)
 CMS-SMP-12-017, CERN-PH-EP-2014-205
332. **“Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1408.2745 [hep-ex]
 DOI:10.1103/PhysRevD.91.092005
 Phys. Rev. D **91**, no. 9, 092005 (2015)
 CMS-EXO-12-060, CERN-PH-EP-2014-176
333. **“Search for the associated production of the Higgs boson with a top-quark pair”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1408.1682 [hep-ex]
 DOI:10.1007/JHEP09(2014)087, 10.1007/JHEP10(2014)106
 JHEP **1409**, 087 (2014), Erratum: [JHEP **1410**, 106 (2014)]
 CMS-HIG-13-029, CERN-PH-EP-2014-189
334. **“Search for pair production of third-generation scalar leptoquarks and top squarks in proton–proton collisions at $\sqrt{s}=8$ TeV”**

- V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1408.0806 [hep-ex]
DOI:10.1016/j.physletb.2014.10.063
Phys. Lett. B **739**, 229 (2014)
CMS-EXO-12-032, CERN-PH-EP-2014-190
335. **“Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV in dilepton final states containing one τ lepton”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.6643 [hep-ex]
DOI:10.1016/j.physletb.2014.10.032
Phys. Lett. B **739**, 23 (2014)
CERN-PH-EP-2014-167, CMS-TOP-12-026
336. **“Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.3683 [hep-ex]
DOI:10.1140/epjc/s10052-014-3149-z
Eur. Phys. J. C **74**, no. 11, 3149 (2014)
CMS-EXO-13-008, CERN-PH-EP-2014-161
337. **“Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.3476 [hep-ex]
DOI:10.1016/j.physletb.2014.11.026
Phys. Lett. B **740**, 83 (2015)
CMS-EXO-12-025, CERN-PH-EP-2014-160
338. **“Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.2856 [hep-ex]
DOI:10.1007/JHEP10(2014)087
JHEP **1410**, 87 (2014)
CMS-SMP-12-022, CERN-PH-EP-2014-146
339. **“Observation of the diphoton decay of the Higgs boson and measurement of its properties”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.0558 [hep-ex]
DOI:10.1140/epjc/s10052-014-3076-z
Eur. Phys. J. C **74**, no. 10, 3076 (2014)
CMS-HIG-13-001, CERN-PH-EP-2014-117
340. **“Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1406.7830 [hep-ex]
DOI:10.1140/epjc/s10052-014-3060-7
Eur. Phys. J. C **74**, no. 9, 3060 (2014)
CMS-TOP-12-036, CERN-PH-EP-2014-136
341. **“Differential cross section measurements for the production of a W boson in association with jets in proton-antiproton collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].

- arXiv:1406.7533 [hep-ex]
 DOI:10.1016/j.physletb.2014.12.003
 Phys. Lett. B **741**, 12 (2015)
 CMS-SMP-12-023, CERN-PH-EP-2014-134
342. **“Search for excited quarks in the γ +jet final state in proton–proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1406.5171 [hep-ex]
 DOI:10.1016/j.physletb.2014.09.048
 Phys. Lett. B **738**, 274 (2014)
 CMS-EXO-13-003, CERN-PH-EP-2014-129
343. **“Measurement of jet fragmentation in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1406.0932 [nucl-ex]
 DOI:10.1103/PhysRevC.90.024908
 Phys. Rev. C **90**, no. 2, 024908 (2014)
 CMS-HIN-12-013, CERN-PH-EP-2014-100
344. **“Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1406.0484 [hep-ex]
 DOI:10.1007/JHEP09(2014)094
 JHEP **1409**, 094 (2014)
 CMS-BPH-11-021, CERN-PH-EP-2014-111
345. **“Measurement of the ratio of inclusive jet cross sections using the anti- k_T algorithm with radius parameters $R=0.5$ and 0.7 in pp collisions at $\sqrt{s} = 7$ TeV”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1406.0324 [hep-ex]
 DOI:10.1103/PhysRevD.90.072006
 Phys. Rev. D **90**, no. 7, 072006 (2014)
 CMS-SMP-13-002, CERN-PH-EP-2014-068
346. **“Measurement of the $pp \rightarrow ZZ$ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1406.0113 [hep-ex]
 DOI:10.1016/j.physletb.2016.04.010, 10.1016/j.physletb.2014.11.059
 Phys. Lett. B **740**, 250 (2015), Erratum: [Phys. Lett. B **757**, 569 (2016)]
 CMS-SMP-13-005, CERN-PH-EP-2014-080
347. **“Search for jet extinction in the inclusive jet- p_t spectrum from proton-proton collisions at $\sqrt{s} = 8$ TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1405.7653 [hep-ex]
 DOI:10.1103/PhysRevD.90.032005
 Phys. Rev. D **90**, no. 3, 032005 (2014)
 CMS-EXO-12-051, CERN-PH-EP-2014-108
348. **“Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV”**
 V. Khachatryan *et al.* [CMS Collaboration].
 arXiv:1405.7570 [hep-ex]
 DOI:10.1140/epjc/s10052-014-3036-7
 Eur. Phys. J. C **74**, no. 9, 3036 (2014)

- CMS-SUS-13-006, CERN-PH-EP-2014-098
349. **“Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1405.7225 [hep-ex]
DOI:10.1140/epjc/s10052-014-3129-3
Eur. Phys. J. C **74**, no. 11, 3129 (2014)
CMS-SMP-13-001, CERN-PH-EP-2014-067
350. **“Description and performance of track and primary-vertex reconstruction with the CMS tracker”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1405.6569 [physics.ins-det]
DOI:10.1088/1748-0221/9/10/P10009
JINST **9**, no. 10, P10009 (2014)
CMS-TRK-11-001, CERN-PH-EP-2014-070
351. **“Search for supersymmetry with razor variables in pp collisions at $\sqrt{s}=7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1405.3961 [hep-ex]
DOI:10.1103/PhysRevD.90.112001
Phys. Rev. D **90**, no. 11, 112001 (2014)
CMS-SUS-12-005, CERN-PH-EP-2014-057
352. **“Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.3886 [hep-ex]
DOI:10.1016/j.physletb.2014.07.053
Phys. Lett. B **736**, 371 (2014)
CMS-SUS-13-024, CERN-PH-EP-2014-073
353. **“Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.3455 [hep-ex]
DOI:10.1016/j.physletb.2014.06.077
Phys. Lett. B **736**, 64 (2014)
CMS-HIG-14-002, CERN-PH-EP-2014-078
354. **“Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.3447 [hep-ex]
DOI:10.1007/JHEP08(2014)174
JHEP **1408**, 174 (2014)
CMS-EXO-13-009, CERN-PH-EP-2014-076
355. **“Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.1994 [hep-ex]
DOI:10.1007/JHEP08(2014)173
JHEP **1408**, 173 (2014)
CMS-EXO-12-024, CERN-PH-EP-2014-071
356. **“Measurement of pseudorapidity distributions of charged particles in proton-proton col-**

lisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments"

S. Chatrchyan *et al.* [CMS and TOTEM Collaborations].

arXiv:1405.0722 [hep-ex]

DOI:10.1140/epjc/s10052-014-3053-6

Eur. Phys. J. C **74**, no. 10, 3053 (2014)

CMS-FSQ-12-026, CERN-PH-EP-TOTEM-2014-002, CERN-PH-EP-2014-063

357. **"Search for anomalous production of events with three or more leptons in pp collisions at $\sqrt{s} = 8$ TeV"**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1404.5801 [hep-ex]

DOI:10.1103/PhysRevD.90.032006

Phys. Rev. D **90**, 032006 (2014)

CMS-SUS-13-002, CERN-PH-EP-2014-039

358. **"Search for $WW\gamma$ and $WZ\gamma$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 8$ TeV"**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1404.4619 [hep-ex]

DOI:10.1103/PhysRevD.90.032008

Phys. Rev. D **90**, no. 3, 032008 (2014)

CMS-SMP-13-009, CERN-PH-EP-2014-046

359. **"Measurement of jet multiplicity distributions in $t\bar{t}$ production in pp collisions at $\sqrt{s} = 7$ TeV"**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1404.3171 [hep-ex]

DOI:10.1140/epjc/s10052-014-3014-0, 10.1140/epjc/s10052-015-3437-2

Eur. Phys. J. C **74**, 3014 (2015), Erratum: [Eur. Phys. J. C **75**, no. 5, 216 (2015)]

CMS-TOP-12-018, CERN-PH-EP-2014-048

360. **"Measurement of the ratio $\mathcal{B}(t \rightarrow Wb)/\mathcal{B}(t \rightarrow Wq)$ in pp collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1404.2292 [hep-ex]

DOI:10.1016/j.physletb.2014.06.076

Phys. Lett. B **736**, 33 (2014)

CMS-TOP-12-035, CERN-PH-EP-2014-052

361. **"Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes"**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1404.1344 [hep-ex]

DOI:10.1140/epjc/s10052-014-2980-6

Eur. Phys. J. C **74**, 2980 (2014)

CMS-HIG-13-030, CERN-PH-EP-2014-051

362. **"Measurement of the t-channel single-top-quark production cross section and of the $|V_{tb}|$ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV"**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1403.7366 [hep-ex]

DOI:10.1007/JHEP06(2014)090

JHEP **1406**, 090 (2014)

CMS-TOP-12-038, CERN-PH-EP-2014-032

363. **"Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets"**

S. Chatrchyan *et al.* [CMS Collaboration].

- arXiv:1403.3047 [hep-ex]
 DOI:10.1140/epjc/s10052-014-2973-5
 Eur. Phys. J. C **74**, no. 8, 2973 (2014)
 CMS-SMP-13-011, CERN-PH-EP-2014-022
364. **“Alignment of the CMS tracker with LHC and cosmic ray data”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1403.2286 [physics.ins-det]
 DOI:10.1088/1748-0221/9/06/P06009
 JINST **9**, P06009 (2014)
 CMS-TRK-11-002, CERN-PH-EP-2014-028
365. **“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]
 DOI:10.1007/JHEP06(2014)055
 JHEP **1406**, 055 (2014)
 CMS-SUS-13-012, CERN-PH-EP-2014-015
366. **“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]
 DOI:10.1007/JHEP04(2014)191
 JHEP **1404**, 191 (2014)
 CMS-TOP-12-010, CERN-PH-EP-2014-010
367. **“Search for $W' \rightarrow tb$ 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]
 DOI:10.1007/JHEP05(2014)108
 JHEP **1405**, 108 (2014)
 CMS-B2G-12-010, CERN-PH-EP-2014-011
368. **“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]
 DOI:10.1007/JHEP06(2014)120
 JHEP **1406**, 120 (2014)
 CMS-SMP-13-004, CERN-PH-EP-2014-005
369. **“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]
 DOI:10.1103/PhysRevLett.112.191802
 Phys. Rev. Lett. **112**, 191802 (2014)
 CMS-SMP-12-011, CERN-PH-EP-2013-217
370. **“Evidence for the direct decay of the 125 GeV Higgs boson to fermions”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1401.6527 [hep-ex]
 DOI:10.1038/nphys3005
 Nature Phys. **10**, 557 (2014)

- CMS-HIG-13-033, CERN-PH-EP-2014-004
371. **“Evidence for the 125 GeV Higgs boson decaying to a pair of τ leptons”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1401.5041 [hep-ex]
 DOI:10.1007/JHEP05(2014)104
 JHEP **1405**, 104 (2014)
 CMS-HIG-13-004, CERN-PH-EP-2014-001
372. **“Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1401.4433 [nucl-ex]
 DOI:10.1140/epjc/s10052-014-2951-y
 Eur. Phys. J. C **74**, no. 7, 2951 (2014)
 CMS-HIN-13-001, CERN-PH-EP-2013-236
373. **“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]
 DOI:10.1103/PhysRevLett.112.231802
 Phys. Rev. Lett. **112**, no. 23, 231802 (2014)
 CMS-TOP-12-040, CERN-PH-EP-2013-237
374. **“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]
 DOI:10.1007/JHEP02(2014)024, 10.1007/JHEP02(2014)102
 JHEP **1402**, 024 (2014), Erratum: [JHEP **1402**, 102 (2014)]
 CMS-TOP-12-007, CERN-PH-EP-2013-234
375. **“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]
 DOI:10.1016/j.physletb.2014.06.041
 Phys. Lett. B **735**, 204 (2014)
 CMS-SMP-12-026, CERN-PH-EP-2013-223, CERN-PH-EP-2013-2223
376. **“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]
 DOI:10.1103/PhysRevD.89.092010
 Phys. Rev. D **89**, no. 9, 092010 (2014)
 CMS-FSQ-12-013, CERN-PH-EP-2013-229
377. **“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]
 DOI:10.1007/JHEP04(2014)103
 JHEP **1404**, 103 (2014)
 CMS-HIN-13-003, CERN-PH-EP-2013-219
378. **“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]
DOI:10.1103/PhysRevD.90.032004
Phys. Rev. D **90**, no. 3, 032004 (2014)
CMS-SMP-12-021, CERN-PH-EP-2013-232
379. **“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]
DOI:10.1007/JHEP03(2014)032
JHEP **1403**, 032 (2014)
CMS-FSQ-12-028, CERN-PH-EP-2013-224
380. **“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]
DOI:10.1103/PhysRevD.89.092007
Phys. Rev. D **89**, no. 9, 092007 (2014)
CMS-HIG-13-002, CERN-PH-EP-2013-220
381. **“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]
DOI:10.1103/PhysRevLett.115.029903, 10.1103/PhysRevLett.113.132301
Phys. Rev. Lett. **113**, no. 13, 132301 (2014), Erratum: [Phys. Rev. Lett. **115**, no. 2, 029903 (2015)]
CMS-HIN-12-003, CERN-PH-EP-2013-228
382. **“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]
DOI:10.1103/PhysRevLett.112.171802
Phys. Rev. Lett. **112**, no. 17, 171802 (2014)
CMS-TOP-12-037, CERN-PH-EP-2013-208
383. **“Search for top squark and higgsino production using diphoton Higgs boson decays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.3310 [hep-ex]
DOI:10.1103/PhysRevLett.112.161802
Phys. Rev. Lett. **112**, 161802 (2014)
CMS-SUS-13-014, CERN-PH-EP-2013-226
384. **“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]
DOI:10.1103/PhysRevLett.112.171801
Phys. Rev. Lett. **112**, no. 17, 171801 (2014)
CMS-B2G-12-012, CERN-PH-EP-2013-216
385. **“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]
DOI:10.1007/JHEP02(2014)088
JHEP **1402**, 088 (2014)

- CMS-HIN-12-011, CERN-PH-EP-2013-214
386. **“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]
 DOI:10.1007/JHEP01(2014)096
 JHEP **1401**, 096 (2014)
 CMS-HIG-13-023, CERN-PH-EP-2013-221
387. **“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]
 DOI:10.1016/j.physletb.2014.01.006
 Phys. Lett. B **729**, 149 (2014)
 CMS-B2G-12-015, CERN-PH-EP-2013-215
388. **“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]
 DOI:10.1007/JHEP01(2015)014, 10.1007/JHEP01(2014)163
 JHEP **1401**, 163 (2014), Erratum: [JHEP **1501**, 014 (2015)]
 CERN-PH-EP-2013-213
389. **“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]
 DOI:10.1007/JHEP06(2014)009
 JHEP **1406**, 009 (2014)
 CMS-QCD-11-005, CERN-PH-EP-2013-194
390. **“Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1311.5815 [hep-ex]
 DOI:10.1140/epjc/s10052-014-2901-8
 Eur. Phys. J. C **74**, no. 6, 2901 (2014)
 CMS-SMP-12-010, CERN-PH-EP-2013-200
391. **“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]
 DOI:10.1007/JHEP06(2014)125
 JHEP **1406**, 125 (2014)
 CMS-B2G-12-014, CERN-PH-EP-2013-206
392. **“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]
 DOI:10.1016/j.physletb.2014.04.023
 Phys. Lett. B **733**, 328 (2014)
 CMS-SUS-13-007, CERN-PH-EP-2013-209
393. **“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]
DOI:10.1103/PhysRevLett.112.182001
Phys. Rev. Lett. **112**, no. 18, 182001 (2014)
CMS-TOP-13-003, CERN-PH-EP-2013-211
394. **“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]
DOI:10.1016/j.physletb.2014.01.049
Phys. Lett. B **730**, 193 (2014)
CMS-EXO-12-049, CERN-PH-EP-2013-204
395. **“Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1310.8651 [nucl-ex]
DOI:10.1103/PhysRevC.89.044906
Phys. Rev. C **89**, no. 4, 044906 (2014)
CMS-HIN-11-005, CERN-PH-EP-2013-196
396. **“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]
DOI:10.1007/JHEP12(2013)030
JHEP **1312**, 030 (2013)
CMS-SMP-13-003, CERN-PH-EP-2013-168
397. **“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]
DOI:10.1140/epjc/s10052-013-2674-5
Eur. Phys. J. C **73**, no. 12, 2674 (2013)
CMS-FSQ-12-022, CERN-PH-EP-2013-195
398. **“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]
DOI:10.1103/PhysRevD.89.012003
Phys. Rev. D **89**, no. 1, 012003 (2014)
CMS-HIG-13-012, CERN-PH-EP-2013-188
399. **“Rapidity distributions in exclusive Z + jet and γ + jet events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1310.3082 [hep-ex]
DOI:10.1103/PhysRevD.88.112009
Phys. Rev. D **88**, no. 11, 112009 (2013)
CMS-SMP-12-004, CERN-PH-EP-2013-169
400. **“Search for baryon number violation in top-quark decays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1310.1618 [hep-ex]
DOI:10.1016/j.physletb.2014.02.033

- Phys. Lett. B **731**, 173 (2014)
CMS-B2G-12-023, CERN-PH-EP-2013-179
401. **“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]
DOI:10.1007/JHEP12(2013)039
JHEP **1312**, 039 (2013)
CMS-EWK-11-015, CERN-PH-EP-2013-153
402. **“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]
DOI:10.1007/JHEP02(2014)013
JHEP **1402**, 013 (2014)
CMS-SMP-12-002, CERN-PH-EP-2013-149
403. **“Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1310.0878 [nucl-ex]
DOI:10.1016/j.physletb.2014.01.042
Phys. Lett. B **730**, 243 (2014)
CERN-PH-EP-2013-189, CMS-HIN-12-002
404. **“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]
DOI:10.1016/j.physletb.2014.05.055
Phys. Lett. B **734**, 261 (2014)
CMS-BPH-11-026, CERN-PH-EP-2013-167
405. **“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]
DOI:10.1103/PhysRevLett.111.211804, 10.1103/PhysRevLett.112.119903
Phys. Rev. Lett. **111**, no. 21, 211804 (2013), Erratum: [Phys. Rev. Lett. **112**, no. 11, 119903 (2014)]
CMS-B2G-13-001, CERN-PH-EP-2013-162
406. **“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]
DOI:10.1007/JHEP10(2013)164
JHEP **1310**, 164 (2013)
CMS-SMP-12-020, CERN-PH-EP-2013-098
407. **“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]
DOI:10.1016/j.physletb.2013.10.016
Phys. Lett. B **727**, 57 (2013)
CMS-BPH-11-016, CERN-PH-EP-2013-157

408. **"Measurement of the $W\gamma$ and $Z\gamma$ inclusive cross sections in pp collisions at $\sqrt{s} = 7\text{ TeV}$ and limits on anomalous triple gauge boson couplings"**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1308.6832 [hep-ex]
DOI:10.1103/PhysRevD.89.092005
Phys. Rev. D **89**, no. 9, 092005 (2014)
CMS-EWK-11-009, CERN-PH-EP-2013-108
409. **"Measurement of the W-boson helicity in top-quark decays from $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7\text{ TeV}$ "**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1308.3879 [hep-ex]
DOI:10.1007/JHEP10(2013)167
JHEP **1310**, 167 (2013)
CMS-TOP-11-020, CERN-PH-EP-2013-133
410. **"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]
DOI:10.1016/j.physletb.2013.10.017
Phys. Lett. B **727**, 77 (2013)
CMS-BPH-11-009, CERN-PH-EP-2013-152
411. **"Search for top-squark pair production in the single-lepton final state in pp collisions at $\sqrt{s} = 8\text{ TeV}$ "**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1308.1586 [hep-ex]
DOI:10.1140/epjc/s10052-013-2677-2
Eur. Phys. J. C **73**, no. 12, 2677 (2013)
CMS-SUS-13-011, CERN-PH-EP-2013-148
412. **"Measurement of the prompt J/ψ and $\psi(2S)$ polarizations in pp collisions at $\sqrt{s} = 7\text{ TeV}$ "**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1307.6070 [hep-ex]
DOI:10.1016/j.physletb.2013.10.055
Phys. Lett. B **727**, 381 (2013)
CMS-BPH-13-003, CERN-PH-EP-2013-140
413. **"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]
DOI:10.1016/j.physletb.2013.09.057
Phys. Lett. B **726**, 587 (2013)
CMS-HIG-13-006, CERN-PH-EP-2013-113
414. **"Measurement of the B(s) to $\mu^+\mu^-$ branching fraction and search for B^0 to $\mu^+\mu^-$ with the CMS Experiment"**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1307.5025 [hep-ex]
DOI:10.1103/PhysRevLett.111.101804
Phys. Rev. Lett. **111**, 101804 (2013)
CMS-BPH-13-004, CERN-PH-EP-2013-129
415. **"Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7\text{ TeV}$ "**
S. Chatrchyan *et al.* [CMS Collaboration].

- arXiv:1307.4617 [hep-ex]
DOI:10.1140/epjc/s10052-014-2758-x
Eur. Phys. J. C **74**, no. 4, 2758 (2014)
CMS-TOP-11-017, CERN-PH-EP-2013-124
416. **“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 [hep-ex]
DOI:10.1140/epjc/s10052-014-2847-x
Eur. Phys. J. C **74**, no. 6, 2847 (2014)
CMS-HIN-12-016, CERN-PH-EP-2013-096
417. **“Determination of the top-quark pole mass and strong coupling constant from the t t-bar production cross section in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1307.1907 [hep-ex]
DOI:10.1016/j.physletb.2014.08.040, 10.1016/j.physletb.2013.12.009
Phys. Lett. B **728**, 496 (2014), Erratum: [Phys. Lett. B **738**, 526 (2014)]
CMS-TOP-12-022, CERN-PH-EP-2013-121
418. **“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]
DOI:10.1103/PhysRevLett.111.221801
Phys. Rev. Lett. **111**, no. 22, 221801 (2013)
CMS-SUS-13-003, CERN-PH-EP-2013-093
419. **“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]
DOI:10.1140/epjc/s10052-013-2610-8
Eur. Phys. J. C **73**, no. 10, 2610 (2013)
CMS-SMP-12-005, CERN-PH-EP-2013-075
420. **“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]
DOI:10.1103/PhysRevD.88.052001
Phys. Rev. D **88**, 052001 (2013)
CMS-QCD-11-010, CERN-PH-EP-2013-086
421. **“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]
DOI:10.1007/JHEP07(2013)116
JHEP **1307**, 116 (2013)
CMS-FSQ-12-010, CERN-PH-EP-2013-084
422. **“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]

DOI:10.1016/j.physletb.2013.06.058
Phys. Lett. B **725**, 243 (2013)
CMS-SUS-12-024, CERN-PH-EP-2013-076

423. **"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]
DOI:10.1016/j.physletb.2013.06.028
Phys. Lett. B **724**, 213 (2013)
CMS-HIN-13-002, CERN-PH-EP-2013-077

424. **"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]
DOI:10.1007/JHEP07(2013)122
JHEP **1307**, 122 (2013)
CMS-EXO-12-026, CERN-PH-EP-2013-073