

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 A Search for BSM Light Bosons Decaying into Muon Pairs
HIG-16-035
- CMS AN A Search for Beyond Standard Model Light Bosons Decaying into Muon Pairs
2016-044
- CMS Performance of Track-based Muon Alignment
DP-2016/053
- 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 Simulation studies on precise timing information during High Luminosity LHC
CR-2015/101
- 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 Measurement of the ZZ production cross section in the $2l2\nu$ decay channel and limits on anomalous triple gauge couplings (preliminary results)
2014/181
- CMS AN Performance of jets and missing transverse energy with fast ECAL timing
2014/088
- CMS DN Studies on a precision timing electromagnetic calorimeter for the CMS upgrade
2014/06
- CMS CR ZZ cross section measurements and limits on anomalous coupling constants for neutral triple gauge boson
013/453
- CMS AN Bounding the Higgs width using Z to ll events with high missing transverse energy
2013/411
- CMS AN CMS ECAL calibration with π^0 and η in the LHC RUN1
2013/344
- CMS AN Search for $Z(\rightarrow ll) H(\rightarrow \text{invisible})$ at $\sqrt{s} = 7$ and 8 TeV
2013/333
- CMS CR Evolution of the response of the CMS ECAL, and upgrade design options for electromagnetic calorimetry at the HL-LHC, CMS Conference report
2013/284

4050 Pendleton Drive, Bryan 77802 – Texas, U.S.A.

☎ +19792640374 • ✉ luca.pernie@cern.ch • 📄 lpernie.github.io

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 bbtatau 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 MT_2 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
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