

Physics Publications with Major Personal Contributions

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- A.M. Sirunyan et al., **Search for the production of $W^\pm W^\pm W^\mp$ events at $\sqrt{s} = 13$ TeV**, (2019), arXiv:[1905.04246](#) [hep-ex]
- A.M. Sirunyan et al., **Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton–proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 79 (2019) 280, doi:[10.1140/epjc/s10052-019-6730-7](#), arXiv:[1811.06562](#) [hep-ex]
- A.M. Sirunyan et al., **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**, *JHEP*. 03 (2018) 076, doi:[10.1007/s13130-018-7845-2](#), arXiv:[1709.08908](#) [hep-ex]
- A.M. Sirunyan et al., **Search for standard model production of four top quarks with same-sign and multilepton final states in proton–proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 78 (2018) 140, doi:[10.1140/epjc/s10052-018-5607-5](#), arXiv:[1710.10614](#) [hep-ex]
- A.M. Sirunyan et al., **Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s} = 13$ TeV**, *JHEP*. 06 (2018) 027, doi:[10.1007/JHEP06\(2018\)027](#), arXiv:[1801.08427](#) [hep-ex]
- A.M. Sirunyan et al., **Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 03 (2018) 160, doi:[10.1007/JHEP03\(2018\)160](#), arXiv:[1801.03957](#) [hep-ex]
- A.M. Sirunyan et al., **Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions**, *Eur. Phys. J. C* 77 (2017) 327, doi:[10.1140/epjc/s10052-017-4853-2](#), arXiv:[1612.03877](#) [hep-ex]
- A.M. Sirunyan et al., **Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton–proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 77 (2017) 710, doi:[10.1140/epjc/s10052-017-5267-x](#), arXiv:[1705.04650](#) [hep-ex]
- A.M. Sirunyan et al., **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**, *Eur. Phys. J. C* 77 (2017) 578, doi:[10.1140/epjc/s10052-017-5079-z](#), arXiv:[1704.07323](#) [hep-ex]
- A.M. Sirunyan et al., **Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events**, *JHEP*. 10 (2017) 019, doi:[10.1007/JHEP10\(2017\)019](#), arXiv:[1706.04402](#) [hep-ex]
- A.M. Sirunyan et al., **Search for electroweak production of charginos and neutralinos in WH events in proton–proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 11 (2017) 029, doi:[10.1007/JHEP11\(2017\)029](#), arXiv:[1706.09933](#) [hep-ex]
- V. Khachatryan et al., **Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings**, *Eur. Phys. J. C* 76 (2016) 401, doi:[10.1140/epjc/s10052-016-4219-1](#), arXiv:[1507.03268](#) [hep-ex]
- V. Khachatryan et al., **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**, *JHEP*. 12 (2016) 013, doi:[10.1007/JHEP12\(2016\)013](#), arXiv:[1607.00915](#) [hep-ex]
- V. Khachatryan et al., **Search for new physics in same-sign dilepton events in proton–proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 76 (2016) 439, doi:[10.1140/epjc/s10052-016-4261-z](#), arXiv:[1605.03171](#) [hep-ex]
- V. Khachatryan et al., **Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 10 (2016) 006, doi:[10.1007/JHEP10\(2016\)006](#), arXiv:[1603.04053](#) [hep-ex]

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- V. Khachatryan et al., **Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets**, *Phys. Rev. Lett.* 114 (2015) 051801, doi:[10.1103/PhysRevLett.114.051801](https://doi.org/10.1103/PhysRevLett.114.051801), arXiv:[1410.6315](https://arxiv.org/abs/1410.6315) [hep-ex]
- V. Khachatryan et al., **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**, *JHEP* 04 (2015) 124, doi:[10.1007/JHEP04\(2015\)124](https://doi.org/10.1007/JHEP04(2015)124), arXiv:[1502.06031](https://arxiv.org/abs/1502.06031) [hep-ex]
- S. Chatrchyan et al., **Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV**, *JHEP* 01 (2014) 163, doi:[10.1007/JHEP01\(2015\)014](https://doi.org/10.1007/JHEP01(2015)014), arXiv:[1311.6736](https://arxiv.org/abs/1311.6736) [hep-ex]
- S. Chatrchyan et al., **Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states**, *JHEP* 01 (2014) 096, doi:[10.1007/JHEP01\(2014\)096](https://doi.org/10.1007/JHEP01(2014)096), arXiv:[1312.1129](https://arxiv.org/abs/1312.1129) [hep-ex]
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- V. Khachatryan et al., **Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV**, *Eur. Phys. J. C* 74 (2014) 3060, doi:[10.1140/epjc/s10052-014-3060-7](https://doi.org/10.1140/epjc/s10052-014-3060-7), arXiv:[1406.7830](https://arxiv.org/abs/1406.7830) [hep-ex]
- V. Khachatryan et al., **Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV**, *Phys. Rev. D* 90 (2014) 092007, doi:[10.1103/PhysRevD.90.092007](https://doi.org/10.1103/PhysRevD.90.092007), arXiv:[1409.3168](https://arxiv.org/abs/1409.3168) [hep-ex]
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 - Full List of Publications from all Collaborations and Experiments can be found [here](#).