

Physics Publications with Major Personal Contributions

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- A.M. Sirunyan et al., **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 04 (2020) 171, doi:[10.1007/JHEP04\(2020\)171](https://doi.org/10.1007/JHEP04(2020)171), arXiv:[1908.01115](https://arxiv.org/abs/1908.01115) [hep-ex]
- A.M. Sirunyan et al., **Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV**, *Phys. Rev. Lett.* 125 (2020) 151802, doi:[10.1103/PhysRevLett.125.151802](https://doi.org/10.1103/PhysRevLett.125.151802), arXiv:[2006.11191](https://arxiv.org/abs/2006.11191) [hep-ex]
- A.M. Sirunyan et al., **Search for the production of $W^{\pm}W^{\pm}W^{\mp}$ events at $\sqrt{s} = 13$ TeV**, *Phys. Rev. D* 100 (2019) 012004, doi:[10.1103/PhysRevD.100.012004](https://doi.org/10.1103/PhysRevD.100.012004), arXiv:[1905.04246](https://arxiv.org/abs/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](https://doi.org/10.1140/epjc/s10052-019-6730-7), arXiv:[1811.06562](https://arxiv.org/abs/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](https://doi.org/10.1007/s13130-018-7845-2), arXiv:[1709.08908](https://arxiv.org/abs/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](https://doi.org/10.1140/epjc/s10052-018-5607-5), arXiv:[1710.10614](https://arxiv.org/abs/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](https://doi.org/10.1007/JHEP06(2018)027), arXiv:[1801.08427](https://arxiv.org/abs/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](https://doi.org/10.1007/JHEP03(2018)160), arXiv:[1801.03957](https://arxiv.org/abs/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](https://doi.org/10.1140/epjc/s10052-017-4853-2), arXiv:[1612.03877](https://arxiv.org/abs/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](https://doi.org/10.1140/epjc/s10052-017-5267-x), arXiv:[1705.04650](https://arxiv.org/abs/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](https://doi.org/10.1140/epjc/s10052-017-5079-z), arXiv:[1704.07323](https://arxiv.org/abs/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](https://doi.org/10.1007/JHEP10(2017)019), arXiv:[1706.04402](https://arxiv.org/abs/1706.04402) [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 $\sqrt{s} = 8\text{ TeV}$** , *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]
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- S. Chatrchyan et al., **Measurements of the $t\bar{t}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7\text{ TeV}$** , *JHEP.* 04 (2014) 191, doi:[10.1007/JHEP04\(2014\)191](https://doi.org/10.1007/JHEP04(2014)191), arXiv:[1402.3803](https://arxiv.org/abs/1402.3803) [hep-ex]
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 - Full List of Publications from all Collaborations and Experiments can be found [here](#).