

Physics Publications with Major Personal Contributions

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 $\sqrt{s} = 13\text{TeV}$** , *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 $\sqrt{s} = 13\text{ TeV}$** , (2018), arXiv:1801.08427 [hep-ex]

O. Gutsche, **Dark Matter and Super Symmetry: Exploring and Explaining the Universe with Simulations at the LHC**, in: **Proceedings, Winter Simulation Conference: Simulating Complex Service Systems (WSC 16): Washington, D.C., United States, December 11-14, 2016**, 2017: pp. 4–13, doi:10.1109/WSC.2016.7822075

A.M. Sirunyan et al., **Searches for pair production of third-generation squarks in $\sqrt{s} = 13\text{TeV}$ 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 $\sqrt{s} = 13\text{TeV}$** , *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 new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13\text{ TeV}$** , (2017), arXiv:1709.08908 [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 $\sqrt{s} = 13\text{TeV}$** , *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 $\sqrt{s} = 13\text{ TeV}$ 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 $\sqrt{s} = 13\text{ TeV}$** , *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 $\sqrt{s} = 8\text{ TeV}$ and limits on anomalous gauge couplings**, *Eur. Phys. J. C* 76 (2016) 401, doi:10.1140/epjc/s10052-016-4219-1, arXiv:1507.03268

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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]

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