

# Publication List from all Collaborations and Experiments

Oliver Gutsche

September 1, 2019

- M. Aaboud et al., **Combinations of single-top-quark production cross-section measurements and  $|f_{LV}V_{tb}|$  determinations at  $\sqrt{s} = 7$  and 8 TeV with the ATLAS and CMS experiments**Combinations of single-top-quark production cross-section measurements and  $f_{LV}V_{tb}$  determinations at  $\sqrt{s} = 7$  and 8 TeV with the ATLAS and CMS experiments, *JHEP.* 05 (2019) 088, doi:[10.1007/JHEP05\(2019\)088](https://doi.org/10.1007/JHEP05(2019)088), arXiv:[1902.07158](https://arxiv.org/abs/1902.07158) [hep-ex]
- A.M. Sirunyan et al., **Search for a low-mass  $\tau^+\tau^-$  resonance in association with a bottom quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP.* 05 (2019) 210, doi:[10.1007/JHEP05\(2019\)210](https://doi.org/10.1007/JHEP05(2019)210), arXiv:[1903.10228](https://arxiv.org/abs/1903.10228) [hep-ex]
- A.M. Sirunyan et al., **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**, *Phys. Lett. B* 789 (2019) 643–665, doi:[10.1016/j.physletb.2018.11.063](https://doi.org/10.1016/j.physletb.2018.11.063), arXiv:[1711.05594](https://arxiv.org/abs/1711.05594) [nucl-ex]
- A.M. Sirunyan et al., **Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV**, *Phys. Lett. B* 793 (2019) 320–347, doi:[10.1016/j.physletb.2019.03.064](https://doi.org/10.1016/j.physletb.2019.03.064), arXiv:[1811.08459](https://arxiv.org/abs/1811.08459) [hep-ex]
- A.M. Sirunyan et al., **Study of the underlying event in top quark pair production in  $pp$  collisions at 13 TeV**, *Eur. Phys. J. C* 79 (2019) 123, doi:[10.1140/epjc/s10052-019-6620-z](https://doi.org/10.1140/epjc/s10052-019-6620-z), arXiv:[1807.02810](https://arxiv.org/abs/1807.02810) [hep-ex]
- A.M. Sirunyan et al., **Search for pair production of first-generation scalar leptoquarks at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. D* 99 (2019) 052002, doi:[10.1103/PhysRevD.99.052002](https://doi.org/10.1103/PhysRevD.99.052002), arXiv:[1811.01197](https://arxiv.org/abs/1811.01197) [hep-ex]
- A.M. Sirunyan et al., **Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV via Higgs boson decays to  $\tau$  leptons**, *JHEP.* 06 (2019) 093, doi:[10.1007/JHEP06\(2019\)093](https://doi.org/10.1007/JHEP06(2019)093), arXiv:[1809.03590](https://arxiv.org/abs/1809.03590) [hep-ex]
- A.M. Sirunyan et al., **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP.* 02 (2019) 074, doi:[10.1007/JHEP02\(2019\)074](https://doi.org/10.1007/JHEP02(2019)074), arXiv:[1810.00196](https://arxiv.org/abs/1810.00196) [hep-ex]
- A.M. Sirunyan et al., **Search for narrow  $H \gamma$  resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. Lett.* 122 (2019) 081804, doi:[10.1103/PhysRevLett.122.081804](https://doi.org/10.1103/PhysRevLett.122.081804), arXiv:[1808.01257](https://arxiv.org/abs/1808.01257) [hep-ex]
- A.M. Sirunyan et al., **Search for dark matter particles produced in association with a top quark pair at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. Lett.* 122 (2019) 011803, doi:[10.1103/PhysRevLett.122.011803](https://doi.org/10.1103/PhysRevLett.122.011803), arXiv:[1807.06522](https://arxiv.org/abs/1807.06522) [hep-ex]
- A.M. Sirunyan et al., **Search for pair-produced three-jet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. D* 99 (2019) 012010, doi:[10.1103/PhysRevD.99.012010](https://doi.org/10.1103/PhysRevD.99.012010), arXiv:[1810.10092](https://arxiv.org/abs/1810.10092) [hep-ex]
- A.M. Sirunyan et al., **Measurements of properties of the Higgs boson decaying to a W boson pair in  $pp$  collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 791 (2019) 96, doi:[10.1016/j.physletb.2018.12.073](https://doi.org/10.1016/j.physletb.2018.12.073), arXiv:[1806.05246](https://arxiv.org/abs/1806.05246) [hep-ex]
- A.M. Sirunyan et al., **Inclusive search for supersymmetry in  $pp$  collisions at  $\sqrt{s} = 13$  TeV using razor variables and boosted object identification in zero and one lepton final states**, *JHEP.* 03 (2019) 031, doi:[10.1007/JHEP03\(2019\)031](https://doi.org/10.1007/JHEP03(2019)031), arXiv:[1812.06302](https://arxiv.org/abs/1812.06302) [hep-ex]
- A.M. Sirunyan et al., **Measurement of inclusive very forward jet cross sections in proton-lead collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**, *JHEP.* 05 (2019) 043, doi:[10.1007/JHEP05\(2019\)043](https://doi.org/10.1007/JHEP05(2019)043), arXiv:[1812.01691](https://arxiv.org/abs/1812.01691) [hep-ex]
- A.M. Sirunyan et al., **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**, *JHEP.* 03 (2019) 127, doi:[10.1007/JHEP03\(2019\)127](https://doi.org/10.1007/JHEP03(2019)127), arXiv:[1811.07010](https://arxiv.org/abs/1811.07010) [hep-ex]
- A.M. Sirunyan et al., **Search for rare decays of Z and Higgs bosons to  $J/\psi$  and a photon in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 79 (2019) 94, doi:[10.1140/epjc/s10052-019-6562-5](https://doi.org/10.1140/epjc/s10052-019-6562-5), arXiv:[1810.10056](https://arxiv.org/abs/1810.10056) [hep-ex]

- A.M. Sirunyan et al., **Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV**, *JHEP*. 01 (2019) 051, doi:[10.1007/JHEP01\(2019\)051](https://doi.org/10.1007/JHEP01(2019)051), arXiv:[1808.01365](https://arxiv.org/abs/1808.01365) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the  $t\bar{t}$  production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 79 (2019) 368, doi:[10.1140/epjc/s10052-019-6863-8](https://doi.org/10.1140/epjc/s10052-019-6863-8), arXiv:[1812.10505](https://arxiv.org/abs/1812.10505) [hep-ex]
- A.M. Sirunyan et al., **Measurement of differential cross sections for inclusive isolated-photon and photon+jets production in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 79 (2019) 20, doi:[10.1140/epjc/s10052-018-6482-9](https://doi.org/10.1140/epjc/s10052-018-6482-9), arXiv:[1807.00782](https://arxiv.org/abs/1807.00782) [hep-ex]
- A.M. Sirunyan et al., **Search for the Higgs boson decaying to two muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. Lett.* 122 (2019) 021801, doi:[10.1103/PhysRevLett.122.021801](https://doi.org/10.1103/PhysRevLett.122.021801), arXiv:[1807.06325](https://arxiv.org/abs/1807.06325) [hep-ex]
- A.M. Sirunyan et al., **Measurement of associated production of a W boson and a charm quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 79 (2019) 269, doi:[10.1140/epjc/s10052-019-6752-1](https://doi.org/10.1140/epjc/s10052-019-6752-1), arXiv:[1811.10021](https://arxiv.org/abs/1811.10021) [hep-ex]
- A.M. Sirunyan et al., **Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 79 (2019) 305, doi:[10.1140/epjc/s10052-019-6800-x](https://doi.org/10.1140/epjc/s10052-019-6800-x), arXiv:[1811.09760](https://arxiv.org/abs/1811.09760) [hep-ex]
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- A.M. Sirunyan et al., **Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 04 (2019) 114, doi:[10.1007/JHEP04\(2019\)114](https://doi.org/10.1007/JHEP04(2019)114), arXiv:[1812.10443](https://arxiv.org/abs/1812.10443) [hep-ex]
- A.M. Sirunyan et al., **Search for Higgs boson pair production in the  $\gamma\gamma b\bar{b}$  final state in pp collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 788 (2019) 7–36, doi:[10.1016/j.physletb.2018.10.056](https://doi.org/10.1016/j.physletb.2018.10.056), arXiv:[1806.00408](https://arxiv.org/abs/1806.00408) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 79 (2019) 391, doi:[10.1140/epjc/s10052-019-6861-x](https://doi.org/10.1140/epjc/s10052-019-6861-x), arXiv:[1812.04095](https://arxiv.org/abs/1812.04095) [hep-ex]
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