

# Publication List from all Collaborations and Experiments

Oliver Gutsche

April 3, 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**, (2019), arXiv:1902.07158 [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, arXiv:1711.05594 [nucl-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, arXiv: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, arXiv:1811.01197 [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, arXiv: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, arXiv: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, arXiv: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, arXiv: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, arXiv: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, arXiv:1812.06302 [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, arXiv: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, arXiv: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, arXiv:1808.01365 [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, arXiv: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, arXiv: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, arXiv:1811.10021 [hep-ex]

- A.M. Sirunyan et al., **Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. D* 99 (2019) 012005, doi:[10.1103/PhysRevD.99.012005](https://doi.org/10.1103/PhysRevD.99.012005), arXiv:[1810.11822](https://arxiv.org/abs/1810.11822) [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]
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- A.M. Sirunyan et al., **Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 01 (2019) 183, doi:[10.1007/JHEP01\(2019\)183](https://doi.org/10.1007/JHEP01(2019)183), arXiv:[1807.03825](https://arxiv.org/abs/1807.03825) [hep-ex]
- A.M. Sirunyan et al., **Search for a  $W'$  boson decaying to a  $\tau$  lepton and a neutrino in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 792 (2019) 107, doi:[10.1016/j.physletb.2019.01.069](https://doi.org/10.1016/j.physletb.2019.01.069), arXiv:[1807.11421](https://arxiv.org/abs/1807.11421) [hep-ex]
- A.M. Sirunyan et al., **Search for  $t\bar{t}H$  production in the  $H \rightarrow b\bar{b}$  decay channel with leptonic  $t\bar{t}$  decays in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 03 (2019) 026, doi:[10.1007/JHEP03\(2019\)026](https://doi.org/10.1007/JHEP03(2019)026), arXiv:[1804.03682](https://arxiv.org/abs/1804.03682) [hep-ex]
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- A.M. Sirunyan et al., **Measurement of nuclear modification factors of  $\Upsilon(1S)$ ,  $\Upsilon(2S)$ , and  $\Upsilon(3S)$  mesons in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**, *Phys. Lett. B* 790 (2019) 270–293, doi:[10.1016/j.physletb.2019.01.006](https://doi.org/10.1016/j.physletb.2019.01.006), arXiv:[1805.09215](https://arxiv.org/abs/1805.09215) [hep-ex]
- A.M. Sirunyan et al., **Search for supersymmetric partners of electrons and muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 790 (2019) 140–166, doi:[10.1016/j.physletb.2019.01.005](https://doi.org/10.1016/j.physletb.2019.01.005), arXiv:[1806.05264](https://arxiv.org/abs/1806.05264) [hep-ex]
- A.M. Sirunyan et al., **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 01 (2019) 154, doi:[10.1007/JHEP01\(2019\)154](https://doi.org/10.1007/JHEP01(2019)154), arXiv:[1812.04066](https://arxiv.org/abs/1812.04066) [hep-ex]
- A.M. Sirunyan et al., **Measurement of prompt  $\psi(2S)$  production cross sections in proton-lead and proton-proton collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**, *Phys. Lett. B* 790 (2019) 509–532, doi:[10.1016/j.physletb.2019.01.058](https://doi.org/10.1016/j.physletb.2019.01.058), arXiv:[1805.02248](https://arxiv.org/abs/1805.02248) [hep-ex]
- A.M. Sirunyan et al., **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 01 (2019) 040, doi:[10.1007/JHEP01\(2019\)040](https://doi.org/10.1007/JHEP01(2019)040), arXiv:[1808.01473](https://arxiv.org/abs/1808.01473) [hep-ex]
- A.M. Sirunyan et al., **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton+jets final state in pp collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 79 (2019) 208, doi:[10.1140/epjc/s10052-019-6688-5](https://doi.org/10.1140/epjc/s10052-019-6688-5), arXiv:[1812.06489](https://arxiv.org/abs/1812.06489) [hep-ex]
- A.M. Sirunyan et al., **Search for pair production of second-generation leptoquarks at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. D* 99 (2019) 032014, doi:[10.1103/PhysRevD.99.032014](https://doi.org/10.1103/PhysRevD.99.032014), arXiv:[1808.05082](https://arxiv.org/abs/1808.05082) [hep-ex]
- A.M. Sirunyan et al., **Measurement of exclusive  $\Upsilon$  photoproduction from protons in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**, *Eur. Phys. J. C* 79 (2019) 277, doi:[10.1140/epjc/s10052-019-6774-8](https://doi.org/10.1140/epjc/s10052-019-6774-8), arXiv:[1809.11080](https://arxiv.org/abs/1809.11080) [hep-ex]
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- A.M. Sirunyan et al., **Measurements of  $t\bar{t}$  differential cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV using events containing two leptons**, *JHEP*. 02 (2019) 149, doi:[10.1007/JHEP02\(2019\)149](https://doi.org/10.1007/JHEP02(2019)149), arXiv:[1811.06625](https://arxiv.org/abs/1811.06625) [hep-ex]
- A.M. Sirunyan et al., **Measurement of differential cross sections for Z boson pair production in association with jets at  $\sqrt{s} = 8$  and 13 TeV**, *Phys. Lett. B* 789 (2019) 19–44, doi:[10.1016/j.physletb.2018.11.007](https://doi.org/10.1016/j.physletb.2018.11.007), arXiv:[1806.11073](https://arxiv.org/abs/1806.11073) [hep-ex]
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- A.M. Sirunyan et al., **Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 01 (2019) 122, doi:[10.1007/JHEP01\(2019\)122](https://doi.org/10.1007/JHEP01(2019)122), arXiv:[1806.10905](https://arxiv.org/abs/1806.10905) [hep-ex]

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- A.M. Sirunyan et al., **Measurements of the  $pp \rightarrow WZ$  inclusive and differential production cross section and constraints on charged anomalous triple gauge couplings at  $\sqrt{s} = 13$  TeV**, (2019), arXiv:[1901.03428](https://arxiv.org/abs/1901.03428) [hep-ex]
- A.M. Sirunyan et al., **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at  $\sqrt{s_{NN}} = 5.44$  TeV**, (2019), arXiv:[1902.03603](https://arxiv.org/abs/1902.03603) [hep-ex]
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- A.M. Sirunyan et al., **An embedding technique to determine  $\tau\tau$  backgrounds in proton-proton collision data**, (2019), arXiv:[1903.01216](https://arxiv.org/abs/1903.01216) [hep-ex]
- A.M. Sirunyan et al., **Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2019), arXiv:[1903.04040](https://arxiv.org/abs/1903.04040) [hep-ex]
- A.M. Sirunyan et al., **Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP.* 03 (2019) 141, doi:[10.1007/JHEP03\(2019\)141](https://doi.org/10.1007/JHEP03(2019)141), arXiv:[1901.01553](https://arxiv.org/abs/1901.01553) [hep-ex]
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