

Publication List from all Collaborations and Experiments

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- A.M. Sirunyan et al., **Observation of nuclear modifications in W^\pm boson production in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**, *Phys. Lett. B* 800 (2020) 135048, doi:[10.1016/j.physletb.2019.135048](https://doi.org/10.1016/j.physletb.2019.135048), arXiv:[1905.01486](https://arxiv.org/abs/1905.01486) [hep-ex]
- A.M. Sirunyan et al., **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 800 (2020) 135087, doi:[10.1016/j.physletb.2019.135087](https://doi.org/10.1016/j.physletb.2019.135087), arXiv:[1907.07235](https://arxiv.org/abs/1907.07235) [hep-ex]
- 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., **Measurement of the top quark polarization and $t\bar{t}$ spin correlations using dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Rev. D* 100 (2019) 072002, doi:[10.1103/PhysRevD.100.072002](https://doi.org/10.1103/PhysRevD.100.072002), arXiv:[1907.03729](https://arxiv.org/abs/1907.03729) [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]
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- 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 τ 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]
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- 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., **Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, *Phys. Lett. B* 797 (2019) 134826, doi:[10.1016/j.physletb.2019.134826](https://doi.org/10.1016/j.physletb.2019.134826), arXiv:[1810.04602](https://arxiv.org/abs/1810.04602) [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]
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- 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]
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- 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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