

# Publication List

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A.M. Sirunyan et al., **Measurement of the single top quark and antiquark production cross sections in the  $t$  channel and their ratio in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 800 (2020) 135042, doi:[10.1016/j.physletb.2019.135042](https://doi.org/10.1016/j.physletb.2019.135042), arXiv:[1812.10514](https://arxiv.org/abs/1812.10514) [hep-ex]

A.M. Sirunyan et al., **Search for a charged Higgs boson decaying into top and bottom quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV in events with electrons or muons**, *JHEP*. 01 (2020) 096, doi:[10.1007/JHEP01\(2020\)096](https://doi.org/10.1007/JHEP01(2020)096), arXiv:[1908.09206](https://arxiv.org/abs/1908.09206) [hep-ex]

A.M. Sirunyan et al., **Extraction and validation of a new set of CMS PYTHIA8 tunes from underlying-event measurements**, *Eur. Phys. J. C* 80 (2020) 4, doi:[10.1140/epjc/s10052-019-7499-4](https://doi.org/10.1140/epjc/s10052-019-7499-4), arXiv:[1903.12179](https://arxiv.org/abs/1903.12179) [hep-ex]

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., **Observation of the  $\Lambda_b^0 \rightarrow J/\psi \Lambda \phi$  decay in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 802 (2020) 135203, doi:[10.1016/j.physletb.2020.135203](https://doi.org/10.1016/j.physletb.2020.135203), arXiv:[1911.03789](https://arxiv.org/abs/1911.03789) [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**, *Eur. Phys. J. C* 80 (2020) 43, doi:[10.1140/epjc/s10052-019-7585-7](https://doi.org/10.1140/epjc/s10052-019-7585-7), arXiv:[1903.04040](https://arxiv.org/abs/1903.04040) [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]

A.M. Sirunyan et al., **Multiparticle correlation studies in pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV**, *Phys. Rev. C* 101 (2020) 014912, doi:[10.1103/PhysRevC.101.014912](https://doi.org/10.1103/PhysRevC.101.014912), arXiv:[1904.11519](https://arxiv.org/abs/1904.11519) [hep-ex]

A.M. Sirunyan et al., **Combined search for supersymmetry with photons in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 801 (2020) 135183, doi:[10.1016/j.physletb.2019.135183](https://doi.org/10.1016/j.physletb.2019.135183), arXiv:[1907.00857](https://arxiv.org/abs/1907.00857) [hep-ex]

A.M. Sirunyan et al., **Searches for physics beyond the standard model with the  $M_{T2}$  variable in hadronic final states with and without disappearing tracks in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 80 (2020) 3, doi:[10.1140/epjc/s10052-019-7493-x](https://doi.org/10.1140/epjc/s10052-019-7493-x), arXiv:[1909.03460](https://arxiv.org/abs/1909.03460) [hep-ex]

A.M. Sirunyan et al., **Evidence for WW production from double-parton interactions in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 80 (2020) 41, doi:[10.1140/epjc/s10052-019-7541-6](https://doi.org/10.1140/epjc/s10052-019-7541-6), arXiv:[1909.06265](https://arxiv.org/abs/1909.06265) [hep-ex]

A.M. Sirunyan et al., **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2020), arXiv:[2001.04521](https://arxiv.org/abs/2001.04521) [hep-ex]

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- 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]
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