

# Publication List

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- G. Aad et al., **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at  $\sqrt{s} = 8$  TeV**, *JHEP*. 08 (2020) 051, doi:[10.1007/JHEP08\(2020\)051](https://doi.org/10.1007/JHEP08(2020)051), arXiv:[2005.03799](https://arxiv.org/abs/2005.03799) [hep-ex]
- A.M. Sirunyan et al., **Search for direct pair production of supersymmetric partners to the  $\tau$  lepton in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J.* C80 (2020) 189, doi:[10.1140/epjc/s10052-020-7739-7](https://doi.org/10.1140/epjc/s10052-020-7739-7), arXiv:[1907.13179](https://arxiv.org/abs/1907.13179) [hep-ex]
- A.M. Sirunyan et al., **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 03 (2020) 056, doi:[10.1007/JHEP03\(2020\)056](https://doi.org/10.1007/JHEP03(2020)056), arXiv:[1907.11270](https://arxiv.org/abs/1907.11270) [hep-ex]
- A.M. Sirunyan et al., **Search for the lepton flavor violating decay  $\tau \rightarrow 3 \mu$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2020). <http://arxiv.org/abs/2007.05658>, arXiv:[2007.05658](https://arxiv.org/abs/2007.05658) [hep-ex]
- 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.* B800 (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., **Constraints on the  $\chi_{c1}$  versus  $\chi_{c2}$  Polarizations in Proton-Proton Collisions at  $\sqrt{s} = 8$  TeV**, *Phys. Rev. Lett.* 124 (2020) 162002, doi:[10.1103/PhysRevLett.124.162002](https://doi.org/10.1103/PhysRevLett.124.162002), arXiv:[1912.07706](https://arxiv.org/abs/1912.07706) [hep-ex]
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- A.M. Sirunyan et al., **Search for physics beyond the standard model in multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP*. 03 (2020) 051, doi:[10.1007/JHEP03\(2020\)051](https://doi.org/10.1007/JHEP03(2020)051), arXiv:[1911.04968](https://arxiv.org/abs/1911.04968) [hep-ex]
- A.M. Sirunyan et al., **Determination of the strong coupling constant  $\alpha_S(m_Z)$  from measurements of inclusive  $W^\pm$  and Z boson production cross sections in proton-proton collisions at  $\sqrt{s} = 7$  and 8 TeV**, *JHEP*. 06 (2020) 018, doi:[10.1007/JHEP06\(2020\)018](https://doi.org/10.1007/JHEP06(2020)018), arXiv:[1912.04387](https://arxiv.org/abs/1912.04387) [hep-ex]
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- A.M. Sirunyan et al., **Calibration of the CMS hadron calorimeters using proton-proton collision data at  $\sqrt{s} = 13$  TeV**, *JINST*. 15 (2020) P05002, doi:[10.1088/1748-0221/15/05/P05002](https://doi.org/10.1088/1748-0221/15/05/P05002), arXiv:[1910.00079](https://arxiv.org/abs/1910.00079) [physics.ins-det]
- A.M. Sirunyan et al., **Studies of charm quark diffusion inside jets using PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**, *Phys. Rev. Lett.* 125 (2020) 102001, doi:[10.1103/PhysRevLett.125.102001](https://doi.org/10.1103/PhysRevLett.125.102001), arXiv:[1911.01461](https://arxiv.org/abs/1911.01461) [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.* B800 (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]
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- A.M. Sirunyan et al., **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Eur. Phys. J. C* 80 (2020) 370, doi:[10.1140/epjc/s10052-020-7858-1](https://doi.org/10.1140/epjc/s10052-020-7858-1), arXiv:[1907.08330](https://arxiv.org/abs/1907.08330) [hep-ex]
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- A.M. Sirunyan et al., **A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV**, *Eur. Phys. J. C* 80 (2020) 237, doi:[10.1140/epjc/s10052-020-7773-5](https://doi.org/10.1140/epjc/s10052-020-7773-5), arXiv:[1906.05977](https://arxiv.org/abs/1906.05977) [hep-ex]
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- A.M. Sirunyan et al., **Running of the top quark mass from proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Lett. B* 803 (2020) 135263, doi:[10.1016/j.physletb.2020.135263](https://doi.org/10.1016/j.physletb.2020.135263), arXiv:[1909.09193](https://arxiv.org/abs/1909.09193) [hep-ex]
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