## Publication List from all Collaborations and Experiments

## Oliver Gutsche

## December 1, 2020

- 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, arXiv: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, arXiv: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, arXiv:1907.11270 [hep-ex]
- A.M. Sirunyan et al., Search for the lepton flavor violating decay  $\tau \to 3~\mu$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2020). http://arxiv.org/abs/2007.05658, arXiv:2007.05658 [hep-ex]
- V. Khachatryan et al., **The very forward CASTOR calorimeter of the CMS experiment**, (2020). http://arxiv.org/abs/2011.01185, arXiv:2011.01185 [physics.ins-det]
- 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, arXiv:1812.10514 [hep-ex]
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- 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, arXiv:1912.04387 [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. C80 (2020) 4, doi:10.1140/epjc/s10052-019-7499-4, arXiv:1903.12179 [hep-ex]
- 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, arXiv: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, arXiv:1911.01461 [hep-ex]
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- A.M. Sirunyan et al., Measurement of electroweak production of a W boson in association with two jets in proton–proton collisions at  $\sqrt{s}=13TeV,\ Eur.$  Phys. J. C80 (2020) 43, doi:10.1140/epjc/s10052-019-7585-7, arXiv:1903.04040 [hep-ex]

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- A.M. Sirunyan et al., Combined search for supersymmetry with photons in proton-proton collisions at  $\sqrt{s} = 13$  TeV, Phys. Lett. B801 (2020) 135183, doi:10.1016/j.physletb.2019.135183, arXiv:1907.00857 [hep-ex]

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