## Publication List

## Oliver Gutsche

## August 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, (2020), 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., 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]
- 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, arXiv:1912.07706 [hep-ex]
- A.M. Sirunyan et al., Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV, JHEP. 01 (2020) 096, doi:10.1007/JHEP01(2020)096, arXiv:1908.09206 [hep-ex]
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- 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]
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- A.M. Sirunyan et al., Observation of the  $\Lambda_b^0 \to \mathbf{J}/\psi \Lambda \phi$  decay in proton-proton collisions at  $\sqrt{s} = \mathbf{13}$  TeV, Phys. Lett. B802 (2020) 135203, doi:10.1016/j.physletb.2020.135203, arXiv:1911.03789 [hep-ex]
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- A.M. Sirunyan et al., Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment, *JHEP*. 05 (2020) 032, doi:10.1007/JHEP05(2020)032, arXiv:1912.08887 [hep-ex]

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- 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. B800 (2020) 135087, doi:10.1016/j.physletb.2019.135087, arXiv:1907.07235 [hep-ex]
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- A.M. Sirunyan et al., Study of J/ $\psi$  meson production inside jets in pp collisions at  $\sqrt{s} = 8$  TeV, Phys. Lett. B804 (2020) 135409, doi:10.1016/j.physletb.2020.135409, arXiv:1910.01686 [hep-ex]

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