

Publication List from all Collaborations and Experiments

Oliver Gutsche

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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**, (2020), arXiv:[2005.03799 \[hep-ex\]](#)
- A.M. Sirunyan et al., **Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 80 (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. B* 800 (2020) 135042, doi:[10.1016/j.physletb.2019.135042](#), arXiv:[1812.10514 \[hep-ex\]](#)
- A.M. Sirunyan et al., **Constraints on the χ_{c1} versus χ_{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. C* 80 (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., **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](#), arXiv:[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](#), arXiv:[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](#), arXiv:[1903.04040 \[hep-ex\]](#)
- A.M. Sirunyan et al., **Production of Λ_c^+ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, *Phys. Lett. B* 803 (2020) 135328, doi:[10.1016/j.physletb.2020.135328](#), arXiv:[1906.03322 \[hep-ex\]](#)
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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. B* 800 (2020) 135087, doi:[10.1016/j.physletb.2019.135087](#), arXiv:[1907.07235 \[hep-ex\]](#)
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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]
- 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., **Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 02 (2020) 015, doi:[10.1007/JHEP02\(2020\)015](https://doi.org/10.1007/JHEP02(2020)015), arXiv:[1910.12932](https://arxiv.org/abs/1910.12932) [hep-ex]
- A.M. Sirunyan et al., **Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft τ Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV**, *Phys. Rev. Lett.* 124 (2020) 041803, doi:[10.1103/PhysRevLett.124.041803](https://doi.org/10.1103/PhysRevLett.124.041803), arXiv:[1910.01185](https://arxiv.org/abs/1910.01185) [hep-ex]
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- A.M. Sirunyan et al., **A search for the standard model Higgs boson decaying to charm quarks**, *JHEP*. 03 (2020) 131, doi:[10.1007/JHEP03\(2020\)131](https://doi.org/10.1007/JHEP03(2020)131), arXiv:[1912.01662](https://arxiv.org/abs/1912.01662) [hep-ex]
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- A.M. Sirunyan et al., **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 03 (2020) 014, doi:[10.1007/JHEP03\(2020\)014](https://doi.org/10.1007/JHEP03(2020)014), arXiv:[1910.08815](https://arxiv.org/abs/1910.08815) [hep-ex]
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- 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]
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