

Publication List from all Collaborations and Experiments

Oliver Gutsche

March 4, 2019

- M. Aaboud et al., **Combinations of single-top-quark production cross-section measurements and $|f_{LV}V_{tb}|$ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments**, (2019), arXiv:1902.07158 [hep-ex]
- A.M. Sirunyan et al., **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, *Phys. Lett. B* 789 (2019) 643–665, doi:10.1016/j.physletb.2018.11.063, arXiv:1711.05594 [nucl-ex]
- A.M. Sirunyan et al., **Study of the underlying event in top quark pair production in pp collisions at 13 TeV**, *Eur. Phys. J. C* 79 (2019) 123, doi:10.1140/epjc/s10052-019-6620-z, arXiv:1807.02810 [hep-ex]
- A.M. Sirunyan et al., **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 02 (2019) 074, doi:10.1007/JHEP02(2019)074, arXiv:1810.00196 [hep-ex]
- A.M. Sirunyan et al., **Search for narrow $H \rightarrow \gamma\gamma$ 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]
- A.M. Sirunyan et al., **Search for dark matter particles produced in association with a top quark pair at $\sqrt{s} = 13$ TeV**, *Phys. Rev. Lett.* 122 (2019) 011803, doi:10.1103/PhysRevLett.122.011803, arXiv:1807.06522 [hep-ex]
- A.M. Sirunyan et al., **Search for pair-produced three-jet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Rev. D* 99 (2019) 012010, doi:10.1103/PhysRevD.99.012010, arXiv:1810.10092 [hep-ex]
- A.M. Sirunyan et al., **Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 79 (2019) 94, doi:10.1140/epjc/s10052-019-6562-5, arXiv:1810.10056 [hep-ex]
- A.M. Sirunyan et al., **Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV**, *JHEP*. 01 (2019) 051, doi:10.1007/JHEP01(2019)051, arXiv:1808.01365 [hep-ex]
- A.M. Sirunyan et al., **Measurement of differential cross sections for inclusive isolated-photon and photon+jets production in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 79 (2019) 20, doi:10.1140/epjc/s10052-018-6482-9, arXiv:1807.00782 [hep-ex]
- A.M. Sirunyan et al., **Search for the Higgs boson decaying to two muons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Rev. Lett.* 122 (2019) 021801, doi:10.1103/PhysRevLett.122.021801, arXiv:1807.06325 [hep-ex]
- A.M. Sirunyan et al., **Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Rev. D* 99 (2019) 012005, doi:10.1103/PhysRevD.99.012005, arXiv:1810.11822 [hep-ex]
- A.M. Sirunyan et al., **Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 788 (2019) 7–36, doi:10.1016/j.physletb.2018.10.056, arXiv:1806.00408 [hep-ex]
- A.M. Sirunyan et al., **Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 01 (2019) 183, doi:10.1007/JHEP01(2019)183, arXiv:1807.03825 [hep-ex]
- A.M. Sirunyan et al., **Search for new particles decaying to a jet and an emerging jet**, *JHEP*. 02 (2019) 179, doi:10.1007/JHEP02(2019)179, arXiv:1810.10069 [hep-ex]
- A.M. Sirunyan et al., **Measurement of nuclear modification factors of $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, *Phys. Lett. B* 790 (2019) 270–293, doi:10.1016/j.physletb.2019.01.006, arXiv:1805.09215 [hep-ex]

- A.M. Sirunyan et al., **Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 790 (2019) 140–166, doi:[10.1016/j.physletb.2019.01.005](https://doi.org/10.1016/j.physletb.2019.01.005), arXiv:[1806.05264](https://arxiv.org/abs/1806.05264) [hep-ex]
- A.M. Sirunyan et al., **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 01 (2019) 154, doi:[10.1007/JHEP01\(2019\)154](https://doi.org/10.1007/JHEP01(2019)154), arXiv:[1812.04066](https://arxiv.org/abs/1812.04066) [hep-ex]
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- A.M. Sirunyan et al., **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 01 (2019) 040, doi:[10.1007/JHEP01\(2019\)040](https://doi.org/10.1007/JHEP01(2019)040), arXiv:[1808.01473](https://arxiv.org/abs/1808.01473) [hep-ex]
- A.M. Sirunyan et al., **Measurements of $t\bar{t}$ differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV using events containing two leptons**, *JHEP*. 02 (2019) 149, doi:[10.1007/JHEP02\(2019\)149](https://doi.org/10.1007/JHEP02(2019)149), arXiv:[1811.06625](https://arxiv.org/abs/1811.06625) [hep-ex]
- A.M. Sirunyan et al., **Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s} = 8$ and 13 TeV**, *Phys. Lett. B* 789 (2019) 19–44, doi:[10.1016/j.physletb.2018.11.007](https://doi.org/10.1016/j.physletb.2018.11.007), arXiv:[1806.11073](https://arxiv.org/abs/1806.11073) [hep-ex]
- A.M. Sirunyan et al., **Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Rev. D* 99 (2019) 032011, doi:[10.1103/PhysRevD.99.032011](https://doi.org/10.1103/PhysRevD.99.032011), arXiv:[1811.07991](https://arxiv.org/abs/1811.07991) [hep-ex]
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- A.M. Sirunyan et al., **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}} = 5.44$ TeV**, (2019), arXiv:[1902.03603](https://arxiv.org/abs/1902.03603) [hep-ex]
- A.M. Sirunyan et al., **Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2019), arXiv:[1901.01553](https://arxiv.org/abs/1901.01553) [hep-ex]
- A.M. Sirunyan et al., **Search for supersymmetry in events with a photon, jets, b-jets, and missing transverse momentum in proton-proton collisions at 13 TeV**, (2019), arXiv:[1901.06726](https://arxiv.org/abs/1901.06726) [hep-ex]
- A.M. Sirunyan et al., **Search for W boson decays to three charged pions**, *Submitted to: Phys. Rev. Lett.* (2019), arXiv:[1901.11201](https://arxiv.org/abs/1901.11201) [hep-ex]
- A.M. Sirunyan et al., **Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at $\sqrt{s} = 13$ TeV**, (2019), arXiv:[1901.04060](https://arxiv.org/abs/1901.04060) [hep-ex]
- A.M. Sirunyan et al., **Measurement of exclusive $\rho(770)^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2019), arXiv:[1902.01339](https://arxiv.org/abs/1902.01339) [hep-ex]
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- A.M. Sirunyan et al., **Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s} = 13$ TeV**, (2019), arXiv:[1902.04374](https://arxiv.org/abs/1902.04374) [hep-ex]
- A.M. Sirunyan et al., **Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 79 (2019) 90, doi:[10.1140/epjc/s10052-019-6556-3](https://doi.org/10.1140/epjc/s10052-019-6556-3), arXiv:[1809.08597](https://arxiv.org/abs/1809.08597) [hep-ex]
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- A.M. Sirunyan et al., **Search for R -parity violating supersymmetry in pp collisions at $\sqrt{s} = 13\text{ TeV}$ using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**, *Phys. Lett. B* 783 (2018) 114–139, doi:[10.1016/j.physletb.2018.06.028](https://doi.org/10.1016/j.physletb.2018.06.028), arXiv:[1712.08920](https://arxiv.org/abs/1712.08920) [hep-ex]
- A.M. Sirunyan et al., **Measurement of angular parameters from the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$** , *Phys. Lett. B* 781 (2018) 517–541, doi:[10.1016/j.physletb.2018.04.030](https://doi.org/10.1016/j.physletb.2018.04.030), arXiv:[1710.02846](https://arxiv.org/abs/1710.02846) [hep-ex]
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