

Publication List from all Collaborations and Experiments

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- 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](https://doi.org/10.1016/j.physletb.2018.10.056), arXiv:[1806.00408](https://arxiv.org/abs/1806.00408) [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., **Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer**, *JHEP*. 07 (2018) 153, doi:[10.1007/JHEP07\(2018\)153](https://doi.org/10.1007/JHEP07(2018)153), arXiv:[1803.04496](https://arxiv.org/abs/1803.04496) [hep-ex]
- A.M. Sirunyan et al., **Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at $\sqrt{s} = 13$ TeV**, *Phys. Rev. D* 97 (2018) 072006, doi:[10.1103/PhysRevD.97.072006](https://doi.org/10.1103/PhysRevD.97.072006), arXiv:[1708.05379](https://arxiv.org/abs/1708.05379) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the Splitting Function in pp and Pb-Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, *Phys. Rev. Lett.* 120 (2018) 142302, doi:[10.1103/PhysRevLett.120.142302](https://doi.org/10.1103/PhysRevLett.120.142302), arXiv:[1708.09429](https://arxiv.org/abs/1708.09429) [nucl-ex]
- A.M. Sirunyan et al., **Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV**, *Phys. Rev. Lett.* 120 (2018) 241801, doi:[10.1103/PhysRevLett.120.241801](https://doi.org/10.1103/PhysRevLett.120.241801), arXiv:[1712.08501](https://arxiv.org/abs/1712.08501) [hep-ex]
- A.M. Sirunyan et al., **Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair**, *Phys. Rev. Lett.* 120 (2018) 071802, doi:[10.1103/PhysRevLett.120.071802](https://doi.org/10.1103/PhysRevLett.120.071802), arXiv:[1709.05543](https://arxiv.org/abs/1709.05543) [hep-ex]
- A.M. Sirunyan et al., **Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV**, *JHEP*. 03 (2018) 167, doi:[10.1007/JHEP03\(2018\)167](https://doi.org/10.1007/JHEP03(2018)167), arXiv:[1707.03325](https://arxiv.org/abs/1707.03325) [hep-ex]
- A.M. Sirunyan et al., **Search for R-parity violating supersymmetry in pp collisions at $\sqrt{s} = 13$ 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]
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- A.M. Sirunyan et al., **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 778 (2018) 101–127, doi:[10.1016/j.physletb.2018.01.001](https://doi.org/10.1016/j.physletb.2018.01.001), arXiv:[1707.02909](https://arxiv.org/abs/1707.02909) [hep-ex]
- A.M. Sirunyan et al., **Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 779 (2018) 166–190, doi:[10.1016/j.physletb.2017.12.069](https://doi.org/10.1016/j.physletb.2017.12.069), arXiv:[1709.00384](https://arxiv.org/abs/1709.00384) [hep-ex]
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- A.M. Sirunyan et al., **Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and $PbPb$ collisions**, *Phys. Rev. C* 98 (2018) 044902, doi:[10.1103/PhysRevC.98.044902](https://doi.org/10.1103/PhysRevC.98.044902), arXiv:[1710.07864](https://arxiv.org/abs/1710.07864) [nucl-ex]
- A.M. Sirunyan et al., **Measurement of differential cross sections in the kinematic angular variable ϕ^* for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV**, *JHEP*. 03 (2018) 172, doi:[10.1007/JHEP03\(2018\)172](https://doi.org/10.1007/JHEP03(2018)172), arXiv:[1710.07955](https://arxiv.org/abs/1710.07955) [hep-ex]
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- A.M. Sirunyan et al., **Search for new long-lived particles at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 780 (2018) 432–454, doi:[10.1016/j.physletb.2018.03.019](https://doi.org/10.1016/j.physletb.2018.03.019), arXiv:[1711.09120](https://arxiv.org/abs/1711.09120) [hep-ex]
- A.M. Sirunyan et al., **Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 78 (2018) 589, doi:[10.1140/epjc/s10052-018-6049-9](https://doi.org/10.1140/epjc/s10052-018-6049-9), arXiv:[1712.09814](https://arxiv.org/abs/1712.09814) [hep-ex]
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