

Publication List from all Collaborations and Experiments

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- A.M. Sirunyan et al., **Search for the lepton flavor violating decay $\tau \rightarrow 3 \mu$ in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 01 (2021) 163, doi:[10.1007/JHEP01\(2021\)163](https://doi.org/10.1007/JHEP01(2021)163), arXiv:[2007.05658](https://arxiv.org/abs/2007.05658) [hep-ex]
- A.M. Sirunyan et al., **Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2102.06976>, arXiv:[2102.06976](https://arxiv.org/abs/2102.06976) [hep-ex]
- V. Khachatryan et al., **The very forward CASTOR calorimeter of the CMS experiment**, *JINST*. 16 (2021) P02010, doi:[10.1088/1748-0221/16/02/P02010](https://doi.org/10.1088/1748-0221/16/02/P02010), arXiv:[2011.01185](https://arxiv.org/abs/2011.01185) [physics.ins-det]
- A.M. Sirunyan et al., **Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**, *Phys. Rev. C* 103 (2021) 014902, doi:[10.1103/PhysRevC.103.014902](https://doi.org/10.1103/PhysRevC.103.014902), arXiv:[1905.09935](https://arxiv.org/abs/1905.09935) [hep-ex]
- A.M. Sirunyan et al., **Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 812 (2021) 135992, doi:[10.1016/j.physletb.2020.135992](https://doi.org/10.1016/j.physletb.2020.135992), arXiv:[2008.07013](https://arxiv.org/abs/2008.07013) [hep-ex]
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- A.M. Sirunyan et al., **Measurement of prompt D^0 and \bar{D}^0 meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, *Phys. Lett. B* 816 (2021) 136253, doi:[10.1016/j.physletb.2021.136253](https://doi.org/10.1016/j.physletb.2021.136253), arXiv:[2009.12628](https://arxiv.org/abs/2009.12628) [hep-ex]
- A.M. Sirunyan et al., **Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 04 (2021) 123, doi:[10.1007/JHEP04\(2021\)123](https://doi.org/10.1007/JHEP04(2021)123), arXiv:[2012.08600](https://arxiv.org/abs/2012.08600) [hep-ex]
- A.M. Sirunyan et al., **Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 81 (2021) 13, doi:[10.1140/epjc/s10052-020-08739-5](https://doi.org/10.1140/epjc/s10052-020-08739-5), arXiv:[2008.04735](https://arxiv.org/abs/2008.04735) [hep-ex]
- A.M. Sirunyan et al., **Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *Phys. Lett. B* 812 (2021) 136018, doi:[10.1016/j.physletb.2020.136018](https://doi.org/10.1016/j.physletb.2020.136018), arXiv:[2009.09429](https://arxiv.org/abs/2009.09429) [hep-ex]
- A.M. Sirunyan et al., **Angular analysis of the decay $B^+ \rightarrow K^*(892)^+ \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV**, *JHEP*. 04 (2021) 124, doi:[10.1007/JHEP04\(2021\)124](https://doi.org/10.1007/JHEP04(2021)124), arXiv:[2010.13968](https://arxiv.org/abs/2010.13968) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV**, *Eur. Phys. J. C* 81 (2021) 378, doi:[10.1140/epjc/s10052-021-09014-x](https://doi.org/10.1140/epjc/s10052-021-09014-x), arXiv:[2011.03652](https://arxiv.org/abs/2011.03652) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \nu\bar{\nu}$) in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP*. 05 (2021) 205, doi:[10.1007/JHEP05\(2021\)205](https://doi.org/10.1007/JHEP05(2021)205), arXiv:[2012.09254](https://arxiv.org/abs/2012.09254) [hep-ex]
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- A.M. Sirunyan et al., **Measurements of $pp \rightarrow ZZ$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13\text{TeV}$** , *Eur. Phys. J. C* 81 (2021) 200, doi:[10.1140/epjc/s10052-020-08817-8](https://doi.org/10.1140/epjc/s10052-020-08817-8), arXiv:[2009.01186](https://arxiv.org/abs/2009.01186) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the azimuthal anisotropy of $\Upsilon(1S)$ and $\Upsilon(2S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$** , *Phys. Lett. B.* (2021) 136385, doi:[10.1016/j.physletb.2021.136385](https://doi.org/10.1016/j.physletb.2021.136385), arXiv:[2006.07707](https://arxiv.org/abs/2006.07707) [hep-ex]
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- A.M. Sirunyan et al., **Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s} = 13\text{TeV}$** , *Eur. Phys. J. C* 81 (2021) 3, doi:[10.1140/epjc/s10052-020-08701-5](https://doi.org/10.1140/epjc/s10052-020-08701-5), arXiv:[2008.05936](https://arxiv.org/abs/2008.05936) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13\text{ TeV}$** , *JHEP.* 03 (2021) 003, doi:[10.1007/JHEP03\(2021\)003](https://doi.org/10.1007/JHEP03(2021)003), arXiv:[2007.01984](https://arxiv.org/abs/2007.01984) [hep-ex]
- A.M. Sirunyan et al., **Measurement of the CP -violating phase ϕ_s in the $B_s^0 \rightarrow J/\psi \phi(1020) \rightarrow \mu^+ \mu^- K^+ K^-$ channel in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$** , *Phys. Lett. B* 816 (2021) 136188, doi:[10.1016/j.physletb.2021.136188](https://doi.org/10.1016/j.physletb.2021.136188), arXiv:[2007.02434](https://arxiv.org/abs/2007.02434) [hep-ex]
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- A.M. Sirunyan et al., **Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$** , (2021). [http://arxiv.org/abs/2104.04762](https://arxiv.org/abs/2104.04762), arXiv:[2104.04762](https://arxiv.org/abs/2104.04762) [hep-ex]

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