

Publication List

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- A. Tumasyan et al., **Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2108.10407>, arXiv:2108.10407 [hep-ex]
- A. Tumasyan et al., **Measurement of differential $t\bar{t}$ production cross sections in the full kinematic range using lepton+jets events from proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2108.02803>, arXiv:2108.02803 [hep-ex]
- A. Tumasyan et al., **Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2107.13896>, arXiv:2107.13896 [hep-ex]
- A. Tumasyan et al., **Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2107.10892>, arXiv:2107.10892 [hep-ex]
- A. Tumasyan et al., **Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2107.13021>, arXiv:2107.13021 [hep-ex]
- A. Tumasyan et al., **Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb⁻¹ of proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2107.12553>, arXiv:2107.12553 [hep-ex]
- A. Tumasyan et al., **Measurement of the inclusive and differential Higgs boson production cross sections in the decay mode to a pair of τ leptons in pp collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2107.11486>, arXiv:2107.11486 [hep-ex]
- A. Tumasyan et al., **Search for long-lived particles decaying in the CMS endcap muon detectors in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2107.04838>, arXiv:2107.04838 [hep-ex]
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- A. Tumasyan et al., **Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2107.01476>, arXiv:2107.01476 [hep-ex]
- A. Tumasyan et al., **Measurements of the electroweak diboson production cross sections in proton-proton collisions at $\sqrt{s} = 5.02$ TeV using leptonic decays**, (2021). <http://arxiv.org/abs/2107.01137>, arXiv:2107.01137 [hep-ex]
- A. Tumasyan et al., **Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2106.14246>, arXiv:2106.14246 [hep-ex]
- A. Tumasyan et al., **Measurement of the electroweak production of Z γ and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic gauge couplings**, (2021). <http://arxiv.org/abs/2106.11082>, arXiv:2106.11082 [hep-ex]
- A. Tumasyan et al., **Fragmentation of jets containing a prompt J/ ψ meson in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2021). <http://arxiv.org/abs/2106.13235>, arXiv:2106.13235 [hep-ex]
- A. Tumasyan et al., **Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau\tau b\bar{b}$ final state at 13 TeV**, (2021). <http://arxiv.org/abs/2106.10361>, arXiv:2106.10361 [hep-ex]
- A. Tumasyan et al., **Search for W γ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV using hadronic decays of Lorentz-boosted W bosons**, (2021). <http://arxiv.org/abs/2106.10509>, arXiv:2106.10509 [hep-ex]
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- A.M. Sirunyan et al., **Search for lepton-flavor violating decays of the Higgs boson in the $\mu\tau$ and $e\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021), doi:[10.1103/PhysRevD.104.032013](https://doi.org/10.1103/PhysRevD.104.032013), arXiv:[2105.03007](https://arxiv.org/abs/2105.03007) [hep-ex]
- A. Tumasyan et al., **Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2105.09178>, arXiv:[2105.09178](https://arxiv.org/abs/2105.09178) [hep-ex]
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- A.M. Sirunyan et al., **Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state**, (2021). <http://arxiv.org/abs/2104.12152>, arXiv:[2104.12152](https://arxiv.org/abs/2104.12152) [hep-ex]
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- A.M. Sirunyan et al., **Search for top squark production in fully-hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2021). <http://arxiv.org/abs/2103.01290>, arXiv:[2103.01290](https://arxiv.org/abs/2103.01290) [hep-ex]
- A.M. Sirunyan et al., **High precision measurements of Z boson production in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2021). <http://arxiv.org/abs/2103.14089>, arXiv:[2103.14089](https://arxiv.org/abs/2103.14089) [hep-ex]
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- 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., **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]
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- A.M. Sirunyan et al., **Development and validation of HERWIG 7 tunes from CMS underlying-event measurements**, *Eur. Phys. J. C.* 81 (2021) 312, doi:[10.1140/epjc/s10052-021-08949-5](https://doi.org/10.1140/epjc/s10052-021-08949-5), arXiv:[2011.03422](https://arxiv.org/abs/2011.03422) [hep-ex]
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