

Publication List

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- A. Tumasyan et al., **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2310.01643>, arXiv:2310.01643 [hep-ex]
- A. Hayrapetyan et al., **Search for dark matter particles in W^+W^- events with transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2310.12229>, arXiv:2310.12229 [hep-ex]
- A. Tumasyan et al., **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**, (2023). <http://arxiv.org/abs/2310.03233>, arXiv:2310.03233 [hep-ex]
- A. Hayrapetyan et al., **Search for W' bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2310.19893>, arXiv:2310.19893 [hep-ex]
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- A. Hayrapetyan et al., **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2310.03154>, arXiv:2310.03154 [hep-ex]
- A. Hayrapetyan et al., **Development of the CMS detector for the CERN LHC Run 3**, (2023). <http://arxiv.org/abs/2309.05466>, arXiv:2309.05466 [physics.ins-det]
- A. Hayrapetyan et al., **Search for direct production of GeV-scale resonances decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2309.16003>, arXiv:2309.16003 [hep-ex]
- A. Hayrapetyan et al., **Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2309.12408>, arXiv:2309.12408 [hep-ex]
- A. Hayrapetyan et al., **Luminosity determination using Z boson production at the CMS experiment**, (2023). <http://arxiv.org/abs/2309.01008>, arXiv:2309.01008 [hep-ex]
- A. Hayrapetyan et al., **Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2309.14442>, arXiv:2309.14442 [hep-ex]
- A. Tumasyan et al., **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2308.02285>, arXiv:2308.02285 [hep-ex]
- A. Hayrapetyan et al., **Search for scalar leptoquarks produced in lepton-quark collisions and coupled to τ leptons**, (2023). <http://arxiv.org/abs/2308.06143>, arXiv:2308.06143 [hep-ex]
- A. Hayrapetyan et al., **Measurement of the Higgs boson production via vector boson fusion and its decay into bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2308.01253>, arXiv:2308.01253 [hep-ex]
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- A. Tumasyan et al., **Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data**, (2023). <http://arxiv.org/abs/2306.10355>, arXiv:2306.10355 [hep-ex]
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