

Publication List

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- A. Hayrapetyan et al., **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.00657>, arXiv:2403.00657 [hep-ex]
- A. Hayrapetyan et al., **Search for new physics with emerging jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.01556>, arXiv:2403.01556 [hep-ex]
- A. Hayrapetyan et al., **Review of top quark mass measurements in CMS**, (2024). <http://arxiv.org/abs/2403.01313>, arXiv:2403.01313 [hep-ex]
- A. Hayrapetyan et al., **Search for long-lived heavy neutrinos in the decays of B mesons produced in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.04584>, arXiv:2403.04584 [hep-ex]
- A. Hayrapetyan et al., **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of τ leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.20201>, arXiv:2403.20201 [hep-ex]
- A. Hayrapetyan et al., **Search for soft unclustered energy patterns in proton-proton collisions at 13 TeV**, (2024). <http://arxiv.org/abs/2403.05311>, arXiv:2403.05311 [hep-ex]
- A. Hayrapetyan et al., **Searches for Higgs boson production through decays of heavy resonances**, (2024). <http://arxiv.org/abs/2403.16926>, arXiv:2403.16926 [hep-ex]
- A. Hayrapetyan et al., **Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.15518>, arXiv:2403.15518 [physics.ins-det]
- A. Hayrapetyan et al., **Search for Higgs boson pair production in the $b\bar{b}W$ decay mode in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.09430>, arXiv:2403.09430 [hep-ex]
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- A. Hayrapetyan et al., **Observation of the $J/\psi \rightarrow \mu^+\mu^-\mu^+\mu^-$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.11352>, arXiv:2403.11352 [hep-ex]
- A. Hayrapetyan et al., **Search for the decay of the Higgs boson to a pair of light pseudoscalar bosons in the final state with four bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2403.10341>, arXiv:2403.10341 [hep-ex]
- A. Hayrapetyan et al., **Enriching the physics program of the CMS experiment via data scouting and data parking**, (2024). <http://arxiv.org/abs/2403.16134>, arXiv:2403.16134 [hep-ex]
- A. Hayrapetyan et al., **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2402.18658>, arXiv:2402.18658 [hep-ex]
- A. Hayrapetyan et al., **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2402.08668>, arXiv:2402.08668 [hep-ex]
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- A. Hayrapetyan et al., **A search for bottom-type vector-like quark pair production in dileptonic and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2402.13808>, arXiv:2402.13808 [hep-ex]
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