

# Publication List

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- 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]
- A. Hayrapetyan et al., **Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2024). <http://arxiv.org/abs/2402.01898>, arXiv:2402.01898 [hep-ex]
- A. Hayrapetyan et al., **Search for baryon number violation in top quark production and decay using proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2024). <http://arxiv.org/abs/2402.18461>, arXiv:2402.18461 [hep-ex]
- A. Hayrapetyan et al., **Search for fractionally charged particles in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2024). <http://arxiv.org/abs/2402.09932>, arXiv:2402.09932 [hep-ex]
- A. Hayrapetyan et al., **Measurement of energy correlators inside jets and determination of the strong coupling  $\alpha_S(m_Z)$** , (2024). <http://arxiv.org/abs/2402.13864>, arXiv:2402.13864 [hep-ex]
- A. Hayrapetyan et al., **Observation of the  $\Xi_b^- \rightarrow \psi(2S) \Xi^-$  decay and studies of the  $\Xi_b^{*0}$  baryon in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2024). <http://arxiv.org/abs/2402.17738>, arXiv:2402.17738 [hep-ex]
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- A. Hayrapetyan et al., **Portable acceleration of CMS computing workflows with coprocessors as a service**, (2024). <http://arxiv.org/abs/2402.15366>, arXiv:2402.15366 [physics.ins-det]
- A. Tumasyan et al., **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at  $\sqrt{s} = 13$  TeV**, (2024). <http://arxiv.org/abs/2402.11098>, arXiv:2402.11098 [hep-ex]
- A. Hayrapetyan et al., **Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the  $\mu\mu b\bar{b}$  and  $\tau\tau b\bar{b}$  final states**, (2024). <http://arxiv.org/abs/2402.13358>, arXiv:2402.13358 [hep-ex]
- 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]
- A. Hayrapetyan et al., **Measurement of the double-differential inclusive jet cross section in proton-proton collisions at  $\sqrt{s} = 5.02$  TeV**, (2024). <http://arxiv.org/abs/2401.11355>, arXiv:2401.11355 [hep-ex]
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