

Publication List

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- A. Hayrapetyan et al., **Study of same-sign W boson scattering and anomalous couplings in events with one tau lepton from pp collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2410.04210>, arXiv:2410.04210 [hep-ex]
- A. Hayrapetyan et al., **Measurements of inclusive and differential cross sections for top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2410.23475>, arXiv:2410.23475 [hep-ex]
- A. Hayrapetyan et al., **Search for heavy long-lived charged particles with large ionization energy loss in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2410.09164>, arXiv:2410.09164 [hep-ex]
- A. Hayrapetyan et al., **Performance of the CMS high-level trigger during LHC Run 2**, (2024). <http://arxiv.org/abs/2410.17038>, arXiv:2410.17038 [physics.ins-det]
- A. Tumasyan et al., **Correlations between azimuthal anisotropy and mean transverse momentum in pp, pPb, and peripheral PbPb collisions**, (2024). <http://arxiv.org/abs/2410.04578>, arXiv:2410.04578 [nucl-ex]
- A. Hayrapetyan et al., **Search for pair production of heavy particles decaying to a top quark and a gluon in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2410.20601>, arXiv:2410.20601 [hep-ex]
- A. Hayrapetyan et al., **Measurement of the Higgs boson mass and width using the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2409.13663>, arXiv:2409.13663 [hep-ex]
- A. Hayrapetyan et al., **Energy-scaling behavior of intrinsic transverse momentum parameters in Drell-Yan simulation**, (2024). <http://arxiv.org/abs/2409.17770>, arXiv:2409.17770 [hep-ph]
- A. Hayrapetyan et al., **Measurement of inclusive and differential cross sections of single top quark production in association with a W boson in proton-proton collisions at $\sqrt{s} = 13.6$ TeV**, (2024). <http://arxiv.org/abs/2409.06444>, arXiv:2409.06444 [hep-ex]
- A. Hayrapetyan et al., **Bottom quark energy loss and hadronization with B^+ and B_s^0 nuclear modification factors using pp and \PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2024). <http://arxiv.org/abs/2409.07258>, arXiv:2409.07258 [nucl-ex]
- A. Hayrapetyan et al., **Search for light long-lived particles decaying to displaced jets in proton-proton collisions at $\sqrt{s} = 13.6$ TeV**, (2024). <http://arxiv.org/abs/2409.10806>, arXiv:2409.10806 [hep-ex]
- A. Hayrapetyan et al., **Pseudorapidity distributions of charged hadrons in lead-lead collisions at $\sqrt{s_{NN}} = 5.36$ TeV**, (2024). <http://arxiv.org/abs/2409.00838>, arXiv:2409.00838 [hep-ex]
- A. Hayrapetyan et al., **Measurements of polarization and spin correlation and observation of entanglement in top quark pairs using lepton+jets events from proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2409.11067>, arXiv:2409.11067 [hep-ex]
- A. Hayrapetyan et al., **Search for bottom quark associated production of the standard model Higgs boson in final states with leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2408.01344>, arXiv:2408.01344 [hep-ex]
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- A. Hayrapetyan et al., **Search for dark matter produced in association with a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2408.17336>, arXiv:2408.17336 [hep-ex]
- A. Hayrapetyan et al., **Test of lepton flavor universality in semileptonic B_c^+ meson decays in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2408.00678>, arXiv:2408.00678 [hep-ex]
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- A. Tumasyan et al., **Search for resonant pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using large-area jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2407.13872>, arXiv:2407.13872 [hep-ex]
- A. Hayrapetyan et al., **Multiplicity dependence of charm baryon and baryon meson production in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**, (2024). <http://arxiv.org/abs/2407.13615>, arXiv:2407.13615 [nucl-ex]
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- A. Hayrapetyan et al., **Overview of high-density QCD studies with the CMS experiment at the LHC**, (2024). <http://arxiv.org/abs/2405.10785>, arXiv:2405.10785 [nucl-ex]
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