Publication List

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January 1, 2025

- A. Hayrapetyan et al., Measurement of light-by-light scattering and the Breit-Wheeler process, and search for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV, (2024). http://arxiv.org/abs/2412. 15413, arXiv:2412.15413 [nucl-ex]
- A. Hayrapetyan et al., Measurement of the inclusive WZ production cross section in pp collisions at $\sqrt{s} = 13.6$ TeV, (2024). http://arxiv.org/abs/2412.02477, arXiv:2412.02477 [hep-ex]
- V. Chekhovsky et al., **High-precision measurement of the W boson mass with the CMS experiment at the LHC**, (2024). http://arxiv.org/abs/2412.13872, arXiv:2412.13872 [hep-ex]
- A. Hayrapetyan et al., Search for heavy neutral resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV, (2024). http://arxiv.org/abs/2412.04357, arXiv:2412.04357 [hep-ex]
- V. Chekhovsky et al., Identification of low-momentum muons in the CMS detector using multivariate techniques in proton-proton collisions at $\sqrt{s} = 13.6$ TeV, (2024). http://arxiv.org/abs/2412.17590, arXiv:2412.17590 [hep-ex]
- V. Chekhovsky et al., **Determination of the strong coupling and its running from measurements of inclusive jet production**, (2024). http://arxiv.org/abs/2412.16665, arXiv:2412.16665 [hep-ex]
- A. Hayrapetyan et al., Measurement of the W boson decay branching fraction ratio $\mathcal{B}(W \to cq)/\mathcal{B}(W \to q\bar{q}')$ in proton-proton collisions at $\sqrt{s} = 13$ TeV, (2024). http://arxiv.org/abs/2412.16296, arXiv:2412.16296 [hep-ex]
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- A. Hayrapetyan et al., Angular analysis of the B 0 \rightarrow K *(892) $^0\mu^+\mu^-$ decay in proton-proton collisions at \sqrt{s} = 13 TeV, (2024). http://arxiv.org/abs/2411.11820, arXiv:2411.11820 [hep-ex]
- A. Hayrapetyan et al., Search for rare decays of the Z and Higgs bosons to a J/ ψ or ψ (2S) meson and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV, (2024). http://arxiv.org/abs/2411.15000, arXiv:2411.15000 [hep-ex]
- A. Hayrapetyan et al., Reweighting simulated events using machine-learning techniques in the CMS experiment, (2024). http://arxiv.org/abs/2411.03023, arXiv:2411.03023 [hep-ex]
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