

Publication List

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- V. Chekhovsky et al., **Development of systematic uncertainty-aware neural network trainings for binned-likelihood analyses at the LHC**, (2025). <http://arxiv.org/abs/2502.13047>, arXiv:2502.13047 [hep-ex]
- V. Chekhovsky et al., **Search for medium effects using jet axis decorrelation in inclusive jets from PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2025). <http://arxiv.org/abs/2502.13020>, arXiv:2502.13020 [nucl-ex]
- V. Chekhovsky et al., **Search for bosons of an extended Higgs sector in b quark final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2502.06568>, arXiv:2502.06568 [hep-ex]
- V. Chekhovsky et al., **Evidence for similar collectivity of high transverse momentum particles in pPb and PbPb collisions**, (2025). <http://arxiv.org/abs/2502.07525>, arXiv:2502.07525 [nucl-ex]
- A. Hayrapetyan et al., **Observation of Λ hyperon local polarization in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**, (2025). <http://arxiv.org/abs/2502.07898>, arXiv:2502.07898 [nucl-ex]
- V. Chekhovsky et al., **Search for γ H production and constraints on the Yukawa couplings of light quarks to the Higgs boson**, (2025). <http://arxiv.org/abs/2502.05665>, arXiv:2502.05665 [hep-ex]
- V. Chekhovsky et al., **Search for a heavy pseudoscalar Higgs boson decaying to a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2501.14825>, arXiv:2501.14825 [hep-ex]
- V. Chekhovsky et al., **Measurements of Higgs boson production cross section in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13.6$ TeV**, (2025). <http://arxiv.org/abs/2501.14849>, arXiv:2501.14849 [hep-ex]
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- 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., **Model-agnostic search for dijet resonances with anomalous jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2412.03747>, arXiv:2412.03747 [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]
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- 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]
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- A. Hayrapetyan et al., **Measurement of the Drell-Yan forward-backward asymmetry and of the effective leptonic weak mixing angle in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2024). <http://arxiv.org/abs/2408.07622>, arXiv:2408.07622 [hep-ex]
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