

Publication List

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- A. Hayrapetyan et al., **Search for t -channel scalar and vector leptoquark exchange in the high-mass dimuon and dielectron spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2503.20023>, arXiv:2503.20023 [hep-ex]
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- A. Hayrapetyan et al., **Observation of a pseudoscalar excess at the top quark pair production threshold**, (2025). <http://arxiv.org/abs/2503.22382>, arXiv:2503.22382 [hep-ex]
- V. Chekhovsky et al., **Observation of WZ γ production and constraints on new physics scenarios in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2503.21977>, arXiv:2503.21977 [hep-ex]
- V. Chekhovsky et al., **Observation of the charged-particle multiplicity dependence of $\sigma_{\psi(2S)}/\sigma_{J/\psi}$ in pPb collisions at 8.16 TeV**, (2025). <http://arxiv.org/abs/2503.02139>, arXiv:2503.02139 [nucl-ex]
- V. Chekhovsky et al., **Small- x evolution of gluon fields from incoherent J/ ψ photoproduction in ultraperipheral PbPb collisions**, (2025). <http://arxiv.org/abs/2503.08903>, arXiv:2503.08903 [nucl-ex]
- V. Chekhovsky et al., **Search for the associated production of a Higgs boson with a charm quark in the diphoton decay channel in pp collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2503.08797>, arXiv:2503.08797 [hep-ex]
- V. Chekhovsky et al., **Luminosity measurement for lead-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV in 2015 and 2018 at CMS**, (2025). <http://arxiv.org/abs/2503.03946>, arXiv:2503.03946 [hep-ex]
- V. Chekhovsky et al., **Measurements of the inclusive W and Z boson production cross sections and their ratios in proton-proton collisions at $\sqrt{s} = 13.6$ TeV**, (2025). <http://arxiv.org/abs/2503.09742>, arXiv:2503.09742 [hep-ex]
- V. Chekhovsky et al., **Search for vector-like leptons with long-lived particle decays in the CMS muon system in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2503.16699>, arXiv:2503.16699 [hep-ex]
- A. Hayrapetyan et al., **Search for new physics in jet scaling patterns of multilepton events at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2503.06726>, arXiv:2503.06726 [hep-ex]
- V. Chekhovsky et al., **Observation of nuclear modification of energy-energy correlators inside jets in heavy ion collisions**, (2025). <http://arxiv.org/abs/2503.19993>, arXiv:2503.19993 [nucl-ex]
- 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]
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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]
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