

Publication List

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- V. Chekhovsky et al., **Search for dark matter produced in association with one or two top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2505.05300>, arXiv:2505.05300 [hep-ex]
- V. Chekhovsky et al., **Measurement of event shapes in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2025). <http://arxiv.org/abs/2505.17850>, arXiv:2505.17850 [hep-ex]
- A. Hayrapetyan et al., **Measurements of inclusive and differential Higgs boson production cross sections at $\sqrt{s} = 13.6$ TeV in the $H \rightarrow \gamma\gamma$ decay channel**, (2025). <http://arxiv.org/abs/2504.17755>, arXiv:2504.17755 [hep-ex]
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- V. Chekhovsky et al., **Search for jet quenching with dijets from high-multiplicity pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**, (2025). <http://arxiv.org/abs/2504.08507>, arXiv:2504.08507 [nucl-ex]
- V. Chekhovsky et al., **Observation of coherent $\phi(1020)$ meson photoproduction in ultraperipheral PbPb collisions at $\sqrt{s_{NN}} = 5.36$ TeV**, (2025). <http://arxiv.org/abs/2504.05193>, arXiv:2504.05193 [nucl-ex]
- V. Chekhovsky et al., **Combined effective field theory interpretation of Higgs boson, electroweak vector boson, top quark, and multi-jet measurements**, (2025). <http://arxiv.org/abs/2504.02958>, arXiv:2504.02958 [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 $WZ\gamma$ 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]
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- 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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