## Publication List from all Collaborations and Experiments

## Oliver Gutsche

July 28, 2025

- V. Chekhovsky et al., Evidence of medium response to hard probes using correlations of Z bosons with hadrons in heavy ion collisions, (2025). http://arxiv.org/abs/2507.09307, arXiv:2507.09307 [nucl-ex]
- A. Hayrapetyan et al., Search for heavy pseudoscalar and scalar bosons decaying to a top quark pair in protonproton collisions at  $\sqrt{s} = 13$  TeV, (2025). http://arxiv.org/abs/2507.05119, arXiv:2507.05119 [hep-ex]
- A. Hayrapetyan et al., A method for correcting the substructure of multiprong jets using the Lund jet plane, (2025). http://arxiv.org/abs/2507.07775, arXiv:2507.07775 [hep-ex]
- V. Chekhovsky et al., Search for top squarks in final states with many light-flavor jets and 0, 1, or 2 charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2025). http://arxiv.org/abs/2506.08825, arXiv:2506.08825 [hep-ex]
- A. Hayrapetyan et al., Machine learning method for enforcing variable independence in background estimation with LHC data: ABCDisCoTEC, (2025). http://arxiv.org/abs/2506.08826, arXiv:2506.08826 [hep-ex]
- V. Chekhovsky et al., Search for the rare decay D  $^0 \rightarrow \mu^+ \mu^-$  in proton-proton collisions at  $\sqrt{s} = 13.6$  TeV, (2025). http://arxiv.org/abs/2506.06152, arXiv:2506.06152 [hep-ex]
- A. Hayrapetyan et al., **Determination of the spin and parity of all-charm tetraquarks**, (2025). http://arxiv.org/abs/2506.07944, arXiv:2506.07944 [hep-ex]
- V. Chekhovsky et al., Search for dark matter produced in association with a Higgs boson decaying to a  $\tau$  lepton pair in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2025). http://arxiv.org/abs/2506.04431, arXiv:2506.04431 [hep-ex]
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- V. Chekhovsky et al., Search for dark matter produced in association with one or two top quarks in protonproton collisions at  $\sqrt{s} = 13$  TeV, (2025). http://arxiv.org/abs/2505.05300, arXiv:2505.05300 [hep-ex]
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- A. Hayrapetyan et al., Search for charged-lepton flavour violation in top quark interactions with an up-type quark, a muon, and a  $\tau$  lepton in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2025). http://arxiv.org/abs/2504.08532, arXiv:2504.08532 [hep-ex]
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