

Publication List

Oliver Gutsche

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- A. Tumasyan et al., **Study of charm hadronization with prompt Λ_c^+ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2023). <http://arxiv.org/abs/2307.11186>, arXiv:2307.11186 [nucl-ex]
- A. Tumasyan et al., **Multiplicity and transverse momentum dependence of charge-balance functions in pPb and PbPb collisions at LHC energies**, (2023). <http://arxiv.org/abs/2307.11185>, arXiv:2307.11185 [nucl-ex]
- A. Apresyan et al., **Detector R&D needs for the next generation e^+e^- collider**, (2023). <http://arxiv.org/abs/2306.13567>, arXiv:2306.13567 [hep-ex]
- M. Atif et al., **Evaluating Portable Parallelization Strategies for Heterogeneous Architectures in High Energy Physics**, (2023). <http://arxiv.org/abs/2306.15869>, arXiv:2306.15869 [hep-ex]
- A. Tumasyan et al., **Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data**, (2023). <http://arxiv.org/abs/2306.10355>, arXiv:2306.10355 [hep-ex]
- A. Tumasyan et al., **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2023). <http://arxiv.org/abs/2306.11574>, arXiv:2306.11574 [nucl-ex]
- A. Hayrapetyan et al., **Observation of four top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2305.13439>, arXiv:2305.13439 [hep-ex]
- A. Tumasyan et al., **Measurements of the azimuthal anisotropy of prompt and nonprompt charmonia in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**, (2023). <http://arxiv.org/abs/2305.16928>, arXiv:2305.16928 [hep-ex]
- A. Hayrapetyan et al., **Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the $e \mu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2305.18106>, arXiv:2305.18106 [hep-ex]
- A. Tumasyan et al., **Search for resonances in events with photon and jet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, (2023). <http://arxiv.org/abs/2305.07998>, arXiv:2305.07998 [hep-ex]
- A. Tumasyan et al., **First measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s} = 13.6$ TeV**, (2023). <http://arxiv.org/abs/2303.10680>, arXiv:2303.10680 [hep-ex]
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- M. Bhattacharya et al., **Portability: A Necessary Approach for Future Scientific Software**, in: **Snowmass 2021, 2022**. <http://arxiv.org/abs/2203.09945>, arXiv:2203.09945 [physics.comp-ph]
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- A. Tumasyan et al., **Searches for additional Higgs bosons and for vector leptoquarks in $\tau\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**, *JHEP.* 07 (2023) 073, doi:10.1007/JHEP07(2023)073, arXiv:2208.02717 [hep-ex]
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