

# Publication List from all Collaborations and Experiments

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- A. Hayrapetyan et al., **Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2312.08229>, arXiv:2312.08229 [hep-ex]
- A. Hayrapetyan et al., **Measurement of multidifferential cross sections for dijet production in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2312.16669>, arXiv:2312.16669 [hep-ex]
- A. Hayrapetyan et al., **Observation of enhanced long-range elliptic anisotropies inside high-multiplicity jets in pp collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2312.17103>, arXiv:2312.17103 [hep-ex]
- A. Hayrapetyan et al., **Search for the lepton flavor violating  $\tau \rightarrow 3 \mu$  decay in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2312.02371>, arXiv:2312.02371 [hep-ex]
- A. Hayrapetyan et al., **Search for charged-lepton flavor violation in the production and decay of top quarks using trilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2312.03199>, arXiv:2312.03199 [hep-ex]
- A. Hayrapetyan et al., **Evidence for tWZ production in proton-proton collisions at  $\sqrt{s} = 13$  TeV in multilepton final states**, (2023). <http://arxiv.org/abs/2312.11668>, arXiv:2312.11668 [hep-ex]
- A. Tumasyan et al., **Measurement of simplified template cross sections of the Higgs boson produced in association with W or Z bosons in the  $H \rightarrow b\bar{b}$  decay channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2312.07562>, arXiv:2312.07562 [hep-ex]
- A. Tumasyan et al., **Higher-order moments of the elliptic flow distribution in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**, (2023). <http://arxiv.org/abs/2311.11370>, arXiv:2311.11370 [nucl-ex]
- A. Tumasyan et al., **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2311.02725>, arXiv:2311.02725 [hep-ex]
- A. Hayrapetyan et al., **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2311.03261>, arXiv:2311.03261 [hep-ex]
- A. Tumasyan et al., **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2310.01643>, arXiv:2310.01643 [hep-ex]
- A. Hayrapetyan et al., **Search for dark matter particles in  $W^+W^-$  events with transverse momentum imbalance in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2310.12229>, arXiv:2310.12229 [hep-ex]
- A. Tumasyan et al., **Study of azimuthal anisotropy of  $\Upsilon(1S)$  mesons in pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV**, (2023). <http://arxiv.org/abs/2310.03233>, arXiv:2310.03233 [hep-ex]
- A. Hayrapetyan et al., **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2311.00130>, arXiv:2311.00130 [hep-ex]
- A. Hayrapetyan et al., **Search for  $W'$  bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2310.19893>, arXiv:2310.19893 [hep-ex]
- A. Hayrapetyan et al., **Search for narrow trijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2310.14023>, arXiv:2310.14023 [hep-ex]
- A. Hayrapetyan et al., **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2310.03154>,

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A. Hayrapetyan et al., **Search for direct production of GeV-scale resonances decaying to a pair of muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2309.16003>, arXiv:2309.16003 [hep-ex]

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A. Hayrapetyan et al., **Measurement of the Higgs boson production via vector boson fusion and its decay into bottom quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, (2023). <http://arxiv.org/abs/2308.01253>, arXiv:2308.01253 [hep-ex]

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- A. Tumasyan et al., **Search for  $CP$  violation in  $t\bar{t}H$  and  $tH$  production in multilepton channels in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP.* 07 (2023) 092, doi:[10.1007/JHEP07\(2023\)092](https://doi.org/10.1007/JHEP07(2023)092), arXiv:[2208.02686](https://arxiv.org/abs/2208.02686) [hep-ex]
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- A. Tumasyan et al., **Measurement of the top quark pole mass using  $t\bar{t}$ +jet events in the dilepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP.* 07 (2023) 077, doi:[10.1007/JHEP07\(2023\)077](https://doi.org/10.1007/JHEP07(2023)077), arXiv:[2207.02270](https://arxiv.org/abs/2207.02270) [hep-ex]
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- A. Tumasyan et al., **Search for Higgs boson decays into Z and  $J/\psi$  and for Higgs and Z boson decays into  $J/\psi$  or  $\Upsilon$  pairs in pp collisions at  $s=13$  TeV**, *Phys. Lett. B.* 842 (2023) 137534, doi:[10.1016/j.physletb.2022.137534](https://doi.org/10.1016/j.physletb.2022.137534), arXiv:[2206.03525](https://arxiv.org/abs/2206.03525) [hep-ex]
- A. Tumasyan et al., **Search for heavy resonances and quantum black holes in  $e\mu$ ,  $e\tau$ , and  $\mu\tau$  final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *JHEP.* 05 (2023) 227, doi:[10.1007/JHEP05\(2023\)227](https://doi.org/10.1007/JHEP05(2023)227), arXiv:[2205.06709](https://arxiv.org/abs/2205.06709) [hep-ex]
- A. Tumasyan et al., **Search for exotic Higgs boson decays  $H \rightarrow \mathcal{A}\mathcal{A} \rightarrow 4 \gamma$  with events containing two merged diphotons in proton-proton collisions at  $\sqrt{s} = 13$  TeV**, *Phys. Rev. Lett.* 131 (2023) 101801, doi:[10.1103/PhysRevLett.131.101801](https://doi.org/10.1103/PhysRevLett.131.101801), arXiv:[2209.06197](https://arxiv.org/abs/2209.06197) [hep-ex]
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