## Publication List from all Collaborations and Experiments

## Oliver Gutsche

## March 2, 2022

- A. Tumasyan et al., Search for Higgs boson pair production in the four b quark final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2202.09617, arXiv:2202.09617 [hep-ex]
- A. Tumasyan et al., First evidence for off-shell production of the Higgs boson and measurement of its width, (2022). http://arxiv.org/abs/2202.06923, arXiv:2202.06923 [hep-ex]
- A. Tumasyan et al., Inclusive nonresonant multilepton probes of new phenomena at  $\sqrt{s}=13$  TeV, (2022). http://arxiv.org/abs/2202.08676, arXiv:2202.08676 [hep-ex]
- A. Tumasyan et al., Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2202.12988, arXiv:2202.12988 [hep-ex]
- A. Tumasyan et al., Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2202.12327, arXiv:2202.12327 [hep-ex]
- A. Tumasyan et al., Nuclear modification of  $\Upsilon$  states in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, (2022). http://arxiv.org/abs/2202.11807, arXiv:2202.11807 [hep-ex]
- A. Tumasyan et al., Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2202.06075, arXiv:2202.06075 [hep-ex]
- A. Tumasyan et al., Observation of B  $^0$  $\rightarrow \psi$ (2S)K  $^0_S\pi^+\pi^-$  and B  $^0_S\rightarrow \psi$ (2S)K  $^0_S$  decays, (2022). http://arxiv.org/abs/2201.09131, arXiv:2201.09131 [hep-ex]
- A. Tumasyan et al., Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2201.05578, arXiv:2201.05578 [hep-ex]
- A. Tumasyan et al., Measurement of the inclusive and differential  $t\bar{t}\gamma$  cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at  $\sqrt{s}$  =13 TeV, (2022). http://arxiv.org/abs/2201.07301, arXiv:2201.07301 [hep-ex]
- A. Tumasyan et al., Search for resonances decaying to three W bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2201.08476, arXiv:2201.08476 [hep-ex]
- A. Tumasyan et al., Precision measurement of the W boson decay branching fractions in proton-proton collisions at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2201.07861, arXiv:2201.07861 [hep-ex]
- A. Tumasyan et al., Identification of hadronic tau lepton decays using a deep neural network, (2022). http://arxiv.org/abs/2201.08458, arXiv:2201.08458 [hep-ex]
- A. Tumasyan et al., Search for invisible decays of the Higgs boson produced via vector boson fusion in protonproton collisions at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2201.11585, arXiv:2201.11585 [hep-ex]
- A. Tumasyan et al., Observation of the B  $_c^+$  meson in PbPb and pp collisions at  $\sqrt{s_{NN}}=$  5.02 TeV, (2022). http://arxiv.org/abs/2201.02659, arXiv:2201.02659 [hep-ex]
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- A. Tumasyan et al., Search for single production of a vector-like T quark decaying to a top quark and a Z boson in the final state with jets and missing transverse momentum at  $\sqrt{s} = 13$  TeV, (2022). http://arxiv.org/abs/2201. 02227, arXiv:2201.02227 [hep-ex]

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- A. Tumasyan et al., Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions, *JHEP*. 01 (2022) 188, doi:10.1007/JHEP01(2022)188, arXiv:2109.03340 [hep-ex]
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