## Physics Publications with Major Personal Contributions

## Oliver Gutsche

## May 1, 2023

- A. Tumasyan et al., A portrait of the Higgs boson by the CMS experiment ten years after the discovery, *Nature*. 607 (2022) 60–68, doi:10.1038/s41586-022-04892-x, arXiv:2207.00043 [hep-ex]
- A.M. Sirunyan et al., Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at  $\sqrt{s} = 13$  TeV, JHEP. 04 (2020) 171, doi:10.1007/JHEP04(2020)171, arXiv:1908.01115 [hep-ex]
- A.M. Sirunyan et al., Observation of the Production of Three Massive Gauge Bosons at  $\sqrt{s}$  =13 TeV, Phys. Rev. Lett. 125 (2020) 151802, doi:10.1103/PhysRevLett.125.151802, arXiv:2006.11191 [hep-ex]
- A.M. Sirunyan et al., Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in protonproton collisions at  $\sqrt{s} = 13 TeV$ , Eur. Phys. J. C. 79 (2019) 280, doi:10.1140/epjc/s10052-019-6730-7, arXiv:1811.06562 [hep-ex]
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- A.M. Sirunyan et al., Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV, JHEP. 03 (2018) 076, doi:10.1007/s13130-018-7845-2, arXiv:1709.08908 [hep-ex]
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- A.M. Sirunyan et al., Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at  $\sqrt{s} = 13$  TeV, *JHEP*. 03 (2018) 160, doi:10.1007/JHEP03(2018)160, arXiv:1801.03957 [hep-ex]
- A.M. Sirunyan et al., Searches for pair production of third-generation squarks in  $\sqrt{s} = 13 TeV$  pp collisions, Eur. Phys. J. C. 77 (2017) 327, doi:10.1140/epjc/s10052-017-4853-2, arXiv:1612.03877 [hep-ex]
- A.M. Sirunyan et al., Search for top squark pair production in pp collisions at  $\sqrt{s} = 13$  TeV using single lepton events, *JHEP*. 10 (2017) 019, doi:10.1007/JHEP10(2017)019, arXiv:1706.04402 [hep-ex]
- A.M. Sirunyan et al., Search for electroweak production of charginos and neutralinos in WH events in protonproton collisions at  $\sqrt{s} = 13$  TeV, JHEP. 11 (2017) 029, doi:10.1007/JHEP11(2017)029, arXiv:1706.09933 [hep-ex]
- A.M. Sirunyan et al., Search for new phenomena with the  $M_{T2}$  variable in the all-hadronic final state produced in protonproton collisions at  $\sqrt{s}=13TeV,~Eur.~Phys.~J.~C.~77~(2017)~710,~doi:10.1140/epjc/s10052-017-5267-x,~arXiv:1705.04650~[hep-ex]$
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- O. Gutsche, Development of the trigger algorithm for the MONOLITH experiment, (2001), DESY report: DESY-THESIS-2001-020
  - Full List of Computing Publications with Major Personal Contributions can be found here.
  - Full List of Publications from all Collaborations and Experiments can be found here.

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