## Physics Publications with Major Personal Contributions

## Oliver Gutsche

## October 1, 2020

- 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, (2020), arXiv:2006.11191 [hep-ex]
- A.M. Sirunyan et al., Search for the production of W  $\pm$ W  $\pm$ W  $\pm$  events at  $\sqrt{s} = 13$  TeV, Phys. Rev. D100 (2019) 012004, doi:10.1103/PhysRevD.100.012004, arXiv:1905.04246 [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 proton–proton collisions at  $\sqrt{s} = 13 TeV$ , Eur. Phys. J. C79 (2019) 280, doi:10.1140/epjc/s10052-019-6730-7, arXiv:1811.06562 [hep-ex]
- 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]
- A.M. Sirunyan et al., Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at  $\sqrt{s} = 13 TeV$ , Eur. Phys. J. C78 (2018) 140, doi:10.1140/epjc/s10052-018-5607-5, arXiv:1710.10614 [hep-ex]
- A.M. Sirunyan et al., Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at  $\sqrt{s} = 13$  TeV, JHEP.~06~(2018)~027, doi:10.1007/JHEP06(2018)027, arXiv:1801.08427 [hep-ex]
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- A.M. Sirunyan et al., Searches for pair production of third-generation squarks in  $\sqrt{s} = 13 TeV$  pp collisions, Eur. Phys. J. C77 (2017) 327, doi:10.1140/epjc/s10052-017-4853-2, arXiv:1612.03877 [hep-ex]
- A.M. Sirunyan et al., Search for new phenomena with the  $M_{T2}$  variable in the all-hadronic final state produced in proton–proton collisions at  $\sqrt{s}=13TeV$ , Eur. Phys. J. C77 (2017) 710, doi:10.1140/epjc/s10052-017-5267-x, arXiv:1705.04650 [hep-ex]
- A.M. Sirunyan et al., Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at  $\sqrt{s} = 13 TeV$ , Eur. Phys. J. C77 (2017) 578, doi:10.1140/epjc/s10052-017-5079-z, arXiv:1704.07323 [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 proton-proton collisions at  $\sqrt{s} = 13$  TeV, JHEP. 11 (2017) 029, doi:10.1007/JHEP11(2017)029, arXiv:1706.09933 [hep-ex]
- V. Khachatryan et al., Measurement of the  $W^+W^-$  cross section in pp collisions at  $\sqrt{s} = 8$  TeV and limits on anomalous gauge couplings, Eur. Phys. J. C76 (2016) 401, doi:10.1140/epjc/s10052-016-4219-1, arXiv:1507.03268 [hep-ex]
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- S. Chatrchyan et al., Measurements of  $t\bar{t}$  Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at  $\sqrt{s}=7$  TeV, Phys. Rev. Lett. 112 (2014) 182001, doi:10.1103/PhysRevLett.112.182001, arXiv:1311.3924 [hep-ex]
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- S. Chatrchyan et al., Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at  $\sqrt{s} = 7$  TeV, JHEP. 11 (2012) 147, doi:10.1007/JHEP11(2012)147, arXiv:1209.6620 [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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