## Physics Publications with Major Personal Contributions

## Oliver Gutsche

June 10, 2018

- 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, (2018), arXiv:1801.08427 [hep-ex]
- 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]
- O. Gutsche, Dark Matter and Super Symmetry: Exploring and Explaining the Universe with Simulations at the LHC, in: Proceedings, Winter Simulation Conference: Simulating Complex Service Systems (WSC 16): Washington, D.C., United States, December 11-14, 2016, 2017: pp. 4-13, doi:10.1109/WSC.2016.7822075
- 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 protonproton 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]
- V. Khachatryan et al., Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at sqrt(s) = 13 TeV, JHEP. 12 (2016) 013, doi:10.1007/JHEP12(2016)013, arXiv:1607.00915 [hep-ex]
- V. Khachatryan et al., Search for new physics in same-sign dilepton events in proton-proton collisions at  $\sqrt{s} = 13TeV$ , Eur. Phys. J. C76 (2016) 439, doi:10.1140/epjc/s10052-016-4261-z, arXiv:1605.03171 [hep-ex]
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- V. Khachatryan et al., Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets, *Phys. Rev. Lett.* 114 (2015) 051801, doi:10.1103/PhysRevLett.114.051801, arXiv:1410.6315 [hep-ex]
- V. Khachatryan et al., Search for Physics Beyond the Standard Model in Events with Two Leptons, Jets, and Missing Transverse Momentum in pp Collisions at sqrt(s) = 8 TeV, JHEP. 04 (2015) 124, doi:10.1007/JHEP04(2015)124, arXiv:1502.06031 [hep-ex]
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- V. Khachatryan et al., Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at  $\sqrt{s}$ =8 TeV, Phys. Lett. B736 (2014) 371–397, doi:10.1016/j.physletb.2014.07.053, arXiv:1405.3886 [hep-ex]
- V. Khachatryan et al., Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at  $\sqrt{s} = 8TeV$ , Eur. Phys. J. C74 (2014) 3060, doi:10.1140/epjc/s10052-014-3060-7, arXiv:1406.7830 [hep-ex]
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- S. Chatrchyan et al., Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at  $\sqrt{s} = 7$  TeV, JHEP. 08 (2012) 110, doi:10.1007/JHEP08(2012)110, arXiv:1205.3933 [hep-ex]
- S. Chatrchyan et al., Search for the standard model Higgs boson decaying to  $W^+W^-$  in the fully leptonic final state in pp collisions at  $\sqrt{s} = 7$  TeV, Phys. Lett. B710 (2012) 91–113, doi:10.1016/j.physletb.2012.02.076, arXiv:1202.1489 [hep-ex]
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  - 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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