Journal Articles

- [1] J. Albrecht, et al. [HEP Software Foundation], "A Roadmap for HEP Software and Computing R&D for the 2020s", Journal of Computing and Software for Big Science 3, 7 (2019).
- [2] M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson decays into a pair of light bosons in the $bb\mu\mu$ final state in pp collision at \sqrt{s} =13 TeV with the ATLAS detector", Phys. Lett. **B790**, 1–21 (2019).
- [3] M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson pair production in the $b\bar{b}WW^*$ decay mode at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP **04**, 092 (2019).
- [4] M. Belkin, R. Haas, G. W. Arnold, H. W. Leong, E. A. Huerta, D. Lesny, M. S. Neubauer, "Container solutions for HPC systems: A case study of using shifter on blue waters", CoRR abs/1808.00556 (2018).
- [5] E. A. Huerta, R. Haas, S. Jha, M. S. Neubauer, D. S. Katz, "Supporting High-Performance and High-Throughput Computing for Experimental Science", (2018).
- [6] L. Bauerdick *et al.* "HEP Software Foundation Community White Paper Working Group Data Analysis and Interpretation", edited by M. S. Neubauer (2018).
- [7] M. Aaboud *et al.* [ATLAS Collaboration], "Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys. Rev. **D98**, 052008 (2018).
- [8] M. Aaboud, et al. [ATLAS Collaboration], "Search for WW/WZ resonance production in $\ell\nu qq$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP **03**, 042 (2018).
- [9] M. Aaboud *et al.* [ATLAS Collaboration], "Searches for heavy ZZ and ZW resonances in the $\ell\ell qq$ and $\nu\nu qq$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP **03**, 009 (2018).
- [10] P. Elmer, M. S. Neubauer, M. D. Sokoloff, "Strategic Plan for a Scientific Software Innovation Institute (S2I2) for High Energy Physics", (2017).
- [11] M. Aaboud *et al.* [ATLAS Collaboration], "Search for new resonances decaying to a W or Z boson and a Higgs boson in the $\ell^+\ell^-b\bar{b}$, $\ell\nu b\bar{b}$, and $\nu\bar{\nu}b\bar{b}$ channels with pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector", Phys. Lett. **B765**, 32–52 (2017).
- [12] M. Aaboud *et al.* [ATLAS Collaboration], "Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP **09**, 173 (2016).
- [13] G. Aad et al. [ATLAS Collaboration], "Observation and measurement of Higgs boson decays to WW^* with the ATLAS detector", Phys. Rev. **D92**, 012006 (2015).
- [14] G. Aad et al. [ATLAS Collaboration], "Search for charged Higgs bosons through the violation of lepton universality in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS experiment", JHEP **03**, 076 (2013).
- [15] A. Andreani et al. "The Fast Tracker real time processor and its impact on muon isolation, τ and b-Jet online selections at ATLAS", IEEE Trans. Nucl. Sci. **59**, 348–357 (2012).
- [16] G. Aad *et al.* [ATLAS Collaboration], "Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC", Phys. Lett. **B716**, 1–29 (2012).
- [17] G. Aad et al. [ATLAS Collaboration], "Search for charged Higgs bosons decaying via $H^+ \to \tau \nu$ in top quark pair events using pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector", JHEP **06**, 039 (2012).
- [18] Hobbs, John D. and Neubauer, Mark S. and Willenbrock, Scott, "Tests of the Standard Electroweak Model at the Energy Frontier", Rev. Mod. Phys. 84, 1477 (2012).
- [19] Neubauer, Mark S. "Diboson production at colliders", Ann. Rev. Nucl. Part. Sci. 61, 223–250 (2011).
- [20] T. Aaltonen et al. [CDF Collaboration], "First Measurement of ZZ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV", Phys. Rev. Lett. **100**, 201801 (2008).
- [21] A. Abulencia *et al.* [CDF Collaboration], "Measurement of the Λ_b^0 Lifetime in $\Lambda_b^0 \to J/\psi \Lambda^0$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ -TeV", Phys. Rev. Lett. **98**, 122001 (2007).
- [22] A. Abulencia *et al.* [CDF Collaboration], "Observation of WZ Production", Phys. Rev. Lett. **98**, 161801 (2007).
- [23] Q. R., Ahmad *et al.* [SNO Collaboration], "Measurement of the rate of $\nu_e + d \rightarrow p + p + e^-$ interactions produced by ⁸B solar neutrinos at the Sudbury Neutrino Observatory", Phys. Rev. Lett. **87**, 071301 (2001).