## Computing Publications with Major Personal Contributions

## Oliver Gutsche

July 27, 2025

- A. Apresyan et al., **Detector R&D needs for the next generation**  $e^+e^-$  **collider**, (2023). http://arxiv.org/abs/2306. 13567, arXiv:2306.13567 [hep-ex]
- M. Atif et al., Evaluating Portable Parallelization Strategies for Heterogeneous Architectures in High Energy Physics, (2023). http://arxiv.org/abs/2306.15869, arXiv:2306.15869 [hep-ex]
- B. Bockelman et al., IRIS-HEP Strategic Plan for the Next Phase of Software Upgrades for HL-LHC Physics, (2023). http://arxiv.org/abs/2302.01317, arXiv:2302.01317 [hep-ex]
- V.D. Elvira et al., The Future of High Energy Physics Software and Computing, in: Snowmass 2021, 2022. http://arxiv.org/abs/2210.05822, arXiv:2210.05822 [hep-ex]
- G. Cerati et al., Snowmass Computational Frontier: Topical Group Report on Experimental Algorithm Parallelization, (2022). http://arxiv.org/abs/2209.07356, arXiv:2209.07356 [hep-ex]
- M. Bhattacharya et al., Portability: A Necessary Approach for Future Scientific Software, in: Snowmass 2021, 2022. http://arxiv.org/abs/2203.09945, arXiv:2203.09945 [physics.comp-ph]
- D. Berzano et al., **HEP Software Foundation Community White Paper Working Group Data Organization**, **Management and Access (DOMA)**, (2018). http://arxiv.org/abs/1812.00761, arXiv:1812.00761 [physics.comp-ph]
- L. Bauerdick et al., **HEP Software Foundation Community White Paper Working Group Data Analysis and Interpretation**, (2018). http://arxiv.org/abs/1804.03983, arXiv:1804.03983 [physics.comp-ph]
- J. Balcas et al., Automated Network Services for Exascale Data Movement, EPJ Web Conf. 295 (2024) 01009, doi:10.1051/epjconf/202429501009
- O. Gutsche et al., **The U.S. CMS HL-LHC R&D Strategic Plan**, *EPJ Web Conf.* 295 (2024) 04050, doi:10.1051/epjconf/202429504050, arXiv:2312.00772 [hep-ex]
- K.H.M. Kwok et al., **Application of performance portability solutions for GPUs and many-core CPUs to track reconstruction kernels**, *EPJ Web Conf.* 295 (2024) 11003, doi:10.1051/epjconf/202429511003, arXiv:2401.14221 [physics.acc-ph]
- N. Smith et al., **A Ceph S3 Object Data Store for HEP**, *EPJ Web Conf.* 295 (2024) 01003, doi:10.1051/epjconf/202429501003, arXiv:2311.16321 [physics.data-an]
- N. Smith et al., Coffea: Columnar Object Framework For Effective Analysis, *EPJ Web Conf.* 245 (2020) 06012, doi:10.1051/epjconf/202024506012, arXiv:2008.12712 [cs.DC]
- M. Cremonesi et al., Using Big Data Technologies for HEP Analysis, EPJ Web Conf. 214 (2019) 06030, doi:10.1051/epjconf/201921406030, arXiv:1901.07143 [cs.DC]
- J. Albrecht et al., A Roadmap for HEP Software and Computing R&D for the 2020s, Comput. Softw. Big Sci. 3 (2019) 7, doi:10.1007/s41781-018-0018-8, arXiv:1712.06982 [physics.comp-ph]
  - Full List of Physics Publications with Major Personal Contributions can be found here.
  - 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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