

MATTEO BARBETTI

Department of Physics and Astronomy, University of Florence

Room 183, Via Sansone 1, 50019 Sesto Fiorentino (FI), Italy

✉ matteo.barbetti@unifi.it | <https://mbarbetti.github.io>

SELECTED PAPERS

- [1] L. Anderlini *et al.*, *Lamarr: the ultra-fast simulation option for the LHCb experiment*, in *41st International Conference on High Energy Physics – PoS(ICHEP2022)*, **414 233**, 2022
- [2] F. Ratnikov *et al.*, *A full detector description using neural network driven simulation*, in *15th Pisa Meeting on Advanced Detectors*, [Nucl. Instrum. Meth. A **1046** \(2023\) 167591](#)
- [3] L. Anderlini *et al.*, *Towards Reliable Neural Generative Modeling of Detectors*, in *20th International Workshop on Advanced Computing and Analysis Techniques in Physics Research*, [arXiv:2204.09947](#)
- [4] M. Barbetti and L. Anderlini, *Hyperparameter Optimization as a Service on INFN Cloud*, in *21st International Workshop on Advanced Computing and Analysis Techniques in Physics Research*, in preparation for [J. Phys. Conf.](#)
- [5] L. Anderlini and M. Barbetti, *scikinC: a tool for deploying machine learning as binaries*, in *Computational Tools for High Energy Physics and Cosmology – PoS(CompTools2021)*, **409 034**, 2022
- [6] E. M. Abenavoli *et al.*, *Characterization of mediastinal bulky lymphomas with FDG-PET-based radiomics and machine learning techniques*, in preparation for [Cancers](#)
- [7] LHCb Collaboration, *Measurement of antiproton production from antihyperon decays in pHe collisions at $\sqrt{s_{NN}} = 110$ GeV*, [arXiv:2205.09009](#)