



Contribution ID: 138

Type: **not specified**

A Proof of concept for High-energy Physics Data archival of PhD and Master theses at the University of Freiburg

Monday, November 28, 2022 11:55 AM (15 minutes)

This contribution describes a proof of concept for the archival of the entire life cycle of the data, the analysis code, and the necessary software stack of an analysis realized during a typical PhD or master thesis in High-Energy Physics. All together, the derived datasets, the container with the appropriate software, and the dedicated analysis code are wrapped together into a dataset and stored on an appropriate long term storage, e.g. on the S3 storage of the bwSFS (Baden-Württemberg –Storage for Science) hosted in the compute centers of the University of Freiburg and Tübingen.

A database keeps track of the individual datasets, such that based on the author name, the thesis title, or the doi of the given thesis, the corresponding dataset can be pulled up. Furthermore it is described how the setup can be generalized to be utilized for the entire Physics Department at the University of Freiburg.

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Session Classification: Session I