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Sprout - a Software Tool for Your Analysis

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Data analysis from subatomic physics experiments tends to be a complex endeavour, in particular due to the many systematic checks that this entails. A large number of parameters and combinations thereof must be considered, e.g. selection criteria, fitting ranges, bin sizes, background models, etc. As an aid in this endeavour, I have developed Sprout in parallel to my own data analysis within the HADES experiment. Sprout is a general purpose C++ software library that aims to streamline data analysis using the ROOT framework. Its primary objective is to assist users in maintaining concise, manageable, and modular code by automating repetitive or cumbersome aspects of the analysis workflow. Currently, Sprout offers helper classes for handling ROOT histograms, managing analysis parameters, implementing selection cuts and extracting signal yields. Continued development of Sprout is ongoing to incorporate additional features and improvements.

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