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HEPfit: The Bayesian MCMC for HEP

HEPfit is a flexible open-source tool which, given the Standard Model or any of its extensions, allows to fit the model parameters to a given set of experimental observables and obtain predictions for observables. HEPfit can be used as a simple Monte Carlo routine, to perform a Bayesian Markov Chain Monte Carlo analysis of a given model, or as a library, to obtain predictions of observables for a given point in the parameter space of the model, allowing HEPfit to be used in any statistical framework. In the present version, around a thousand observables have been implemented in the Standard Model and in several new physics scenarios. We will describe the general structure of the code as well as models and observables implemented in the current release along with some recent physics results.

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