

## Updates on BAT.jl, a Bayesian Analysis Toolkit in Julia

*Friday, 9 October 2020 10:00 (1 hour)*

BAT.jl is a Bayesian Analysis Toolkit implemented in the Julia language. It is a high high-performance tool box for Bayesian inference with statistical models expressed in a general-purpose programming language, instead of a domain-specific language.

Typical applications for this package are the extraction of the values of the parameters of a model, the comparison of different models in the light of a given data set and the test of the validity of a model to represent the data set at hand. BAT.jl provides access to the full Bayesian posterior distribution to enable parameter estimation, limit setting and uncertainty propagation. BAT.jl also provides supporting functionality like plotting recipes and reporting functions.

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