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The lightcurves package for times series analysis

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The lightcurves package is a python module that is readily available via PyPi. It was developed to analyze variability in Fermi-LAT light curves of blazars but the tools can be applied to any time series. The functionalities include, for instance, the Bayesian block algorithm, the HOP algorithm, methods to study temporal correlation and analysis methods for the power density spectrum. Moreover, the package contains functions that interpret the time series to be a stochastic process (a Ornstein Uhlenbeck process) and determine the best parameters do describe it as such. In this poster I will present the light curves package and its application to Fermi-LAT light curves.

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