

What is this contribution about?

Present a pipeline that tests common extrapolation schemes applied to high-energy (HE) spectra of blazars to predict very-high-energy (VHE) spectra.

Why is it relevant / interesting?

Fermi-LAT provides an extensive survey of HE gamma-ray emitters and is widely used to predict VHE emission from known blazars, but the selection of the right spectral model to do the extrapolation is often problematic.

What have we done?

Systematically test spectral models used to extrapolate spectra, as a function of blazar spectral type, from HEs using catalog data of blazars for both HE and VHEs.

What is the result?

We could successfully test extrapolation schemes for High Synchrotron Peaked blazars, but the statistics are not enough in VHE to do the same for other blazar types.