Contribution ID: **265**   Type: **not specified**

Towards a TeV blazar sequence

Wednesday, 13 September 2023 14:30 (15 minutes)

The most recent catalog of extragalactic gamma-ray sources, based on data collected over a period of 10 years by the Fermi satellite, double its cataloge the number of blazars with respect to the previous catalog.
In this contribution, we study the updated blazar sequence built with this extended dataset and investigate the properties of the TeV-detected subsample of sources.

This study serves two purposes: firstly, to examine the properties of TeV-detected blazars within the framework of the Fermi blazar sequence, and secondly, to incorporate the TeV band into the luminosity-dependent spectral energy distribution (SED) models.

Furthermore, using the Synchrotron Self-Compton model over the broadband spectral energy distributions, we have extract the average physical parameters for each luminosity bin.

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Session Classification: GRA: Gamma Ray Astronomy

Track Classification: Gamma Ray Astronomy