

Discovery of TXS 1515-273 at VHE gamma rays and modelling of its Spectral Energy Distribution

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On behalf of the Fermi-LAT and MAGIC collaborations

This contribution is focused on the discovery of the BL Lac object TXS 1515-273 at very high energies with the MAGIC telescopes, and the modelling of its spectral energy distribution.

The multi wavelength campaign organized in February 2019 during a flaring activity of this source, which had not been studied in detail before, had an excellent coverage in the X-rays, provided by different instruments.

We performed detailed studies on the variability of this source and used the results to constrain the parameters of the emission region, which were then used to model its SED, using the one-zone model and a two-component model.

Our studies allowed for a classification of this source among the BL Lac object sub-classes and showed the limits of the one-zone model, overcome by the introduction of a second emission region.