

Exclusive Summary

What is the contribution about?

The long-term temporal and spectral study of 1ES 1959+650, one of the most famous blazars in the VHE gamma-ray band.

Why is it interesting?

Studying flaring activities and low-flux states through multiwavelength data would be a precise test of the one-zone SSC model including the temporal change of modeling parameters.

We would like to reveal the connection between both states.

What have we done?

Five years of dense monitoring by MAGIC and FACT followed up by multiwavelength observations from HE gamma rays to radio.

What is the result?

Multiwavelength light curves with several activities. Different flux states in every waveband are identified. The source flux reached the historical minimum in the VHE gamma-ray band in the last five years after being at one of its highest flux levels.