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Detection of TeV Variability from the Peculiar Gamma-Ray Loud Active Galactic Nucleus IC 310 by LHAASO

: The nearby active galaxy IC 310, located on the outskirts of the Perseus galaxy cluster, is a bright and variable multi-wavelength emitter, ranging from the radio regime to very high-energy gamma rays above 100 GeV. Using the LHAASO-WCDA real-time alert system, a TeV gamma-ray flare from IC 310 was detected and reported (ATel #16513), with subsequent activity observed in ATel #16540. In this talk, we will present the observation of several flaring events detected by LHAASO. Further details, such as the spectral energy distribution across different states, preliminary modeling efforts exploring possible emission mechanisms, and flaring behavior on time-scale variability, will also be discussed.

Collaboration(s)

LHAASO Collaboration

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