A bright γ-ray flare from the blazar B2 1215+30 detected by VERITAS and Fermi-LAT

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Abstract

We report on evidence of simultaneous γ-ray flaring from the BL Lac source B2 1215+30, detected by VERITAS (E > 100 GeV) and the *Fermi* Large Area Telescope (100 MeV < E < 100 GeV). The source was observed by VERITAS during an exceptional flaring state in 2014 February 08. Investigations of flux variability in the energy range covered by *Fermi*-LAT, show that the GeV flare occurred contemporaneously with the TeV flare. From the variability time scale we constrain the size of the emission region and derive a limit on the Doppler factor of the relativistic jet of B2 1215+30.

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