

The first GeV flare of the radio-loud narrow-line Seyfert 1 galaxy PKS 2004–447

Tuesday 11 October 2022 10:35 (1 minute)

The extragalactic gamma-ray sky observed by *Fermi*-LAT is dominated by blazars, with only a handful of narrow-line Seyfert 1 (NLS1) galaxies detected in 10 years of observation. Flares from this elusive source class are among the rarest events that the *Fermi*-LAT has seen so far, and we are presenting the analysis on one such event from the radio- and gamma-ray loud source PKS 2004–447.

On 2019 October 25, PKS 2004–447 showed its first bright γ -ray flare since the beginning of the Fermi mission in August 2008. We obtained multi-wavelength follow-up observations with *Swift*, *XMM-Newton*, *NuSTAR*, and ATCA, and studied the variability across all energy bands, with a focus on short timescales in the γ -ray emission. We modelled the broadband spectral energy distribution (SED) data with a leptonic model during different activity states of the source.

The observations of PKS 2004–447, and γ -NLSy1 in general, point to a scenario in which these objects could be considered to belong to the blazar subclass of radio-loud emitters.

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Session Classification: Poster session