

Abstract Submitted
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Fermi-LAT Observations of the Core of Centaurus A JUSTIN FINKE¹, U.S. Naval Research Laboratory, FERMI LARGE AREA TELESCOPE COLLABORATION — The nearby radio galaxy Centaurus A has been detected by the Large Area Telescope (LAT) onboard the Fermi Gamma-Ray Space Telescope. Here we report on the LAT detection of the Cen A core integrated over 10 months. Contamination from the gamma-ray emission of the giant radio lobes has been accounted for and subtracted. The flux level and spectral index observed by the LAT is consistent with that found by EGRET. The core observations are complemented by a variety of contemporaneous and archival data to create a spectral energy distribution (SED). The SED is fit with a single zone synchrotron self-Compton model, which is not able to account for the non-simultaneous very high energy emission observed from Cen A by HESS in 2004–2008. These results have implications for possible emission mechanisms and for blazar/radio galaxy unification.

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