

Observations of SNR Candidate HESS J1614-518 with Fermi-LAT

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It is widely believed that supernova remnants (SNRs) are the main accelerators of Galactic cosmic rays (CRs) with energies up to the knee. Gamma-ray observations of SNRs is crucial to investigate the particle acceleration process and the origin of Galactic CRs. HESS J1614-518 is a TeV gamma-ray source discovered by H.E.S.S., and show a shell-like morphology in TeV band. Since no associated SNRs are observed in other wavelengths, it is classified as a SNR candidate. In this work, we analyze the gamma-ray emission from HESS J1614-518 with more than 12 years of Fermi-LAT data. We present the results of spectral analysis and the extension analysis.

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Subcategory

Experimental Results

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