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Gamma-ray observations of Supernova Remnants with Fermi-LAT data

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In about eight years of data taking, the Large Area Telescope (LAT) onboard the Fermi satellite proved to be an excellent instrument to detect and observe Supernova Remnants (SNRs) in the gamma ray energy band, from one hundred MeV to a few hundred GeV. This energy range is crucial to provide information on the physical processes occurring at the source, which involve both accelerated leptons and hadrons. The understanding of these processes is essential in the study of the mechanisms responsible for the primary Cosmic Ray acceleration.

I will present the latest results from observations of Galactic SNRs with the Fermi LAT, highlighting how the environment in which the SNR is expanding affects the interpretation of its gamma-ray emission.

This contribution is on behalf of the Fermi-LAT collaboration.

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