

Cosmic ray accelerators and gamma-ray surveys

Abstract

Almost seventy years since Fermi and his contemporaries proved the potential of supernovae to produce the Galactic cosmic rays, laying the basis of the current standard model, the origin of cosmic rays remains a vigorous field of research. Novel instruments that entered operations in the last decade have provided a deep insight into high-energy gamma-ray sources, tracing astrophysical particle acceleration in the Galaxy and beyond. Most of the sky has been surveyed for sources of GeV and TeV gamma rays, pointing to smoking guns of cosmic particle accelerators. This work will discuss these observations and their impact in our understanding of cosmic-ray acceleration.

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