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On the GeV-TeV Connection of gamma-ray sources, I. VHE gamma-ray sources and their EGRET counterparts

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Abstract content

Recent observations by atmospheric Cherenkov telescopes such as H.E.S.S., and MAGIC have revealed a large number of new sources of very-high-energy (VHE) gamma-rays above 100 GeV mostly concentrated along the Galactic plane. At lower energies (100 MeV - 10 GeV) the satellite-based instrument EGRET revealed a population of sources clustering along the Galactic Plane. Given their adjacent energy bands a systematic investigation of a correlation seems appropriate. While a large number of sources are only detected in one energy band, several sources can be connected, such as (amongst others) the source in the Kookaburra region (HESS J1420-607/3EG J1420-6038). In this paper we describe the common properties of the sources detected in both energy regimes including predictions for the upcoming space-based instrument GLAST-LAT.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 2 (OG part 1), pages 617-620

Primary author(s) : Dr. FUNK, Stefan (Kavli Institute for Particle Astrophysics and Cosmology, SLAC)

Co-author(s) : Dr. REIMER, Olaf (HEPL/KIPAC, Stanford University); Dr. TORRES, Diego (ICREA/IEEC-CSIC, Barcelona, Spain)

Presenter(s) : Dr. FUNK, Stefan (Kavli Institute for Particle Astrophysics and Cosmology, SLAC)

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