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A Variability Study of Localized Sources Discovered by Milagro in the Galactic Plane

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Abstract content

Milagro is a TeV gamma-ray observatory with a ~ 2 sr field of view and a $>90\%$ duty factor. A recent survey at 12 TeV of the Galactic Plane by Milagro has discovered three new sources, along with four promising source candidates. Each of the new sources and most of the candidates have likely counterparts in the EGRET GeV catalog, some of which are possibly associated with pulsar wind nebulae (PWN) or supernova remnants (SNR). While such sources are not expected to be variable, the identification is not certain, and so an examination of the variability may help to differentiate between steady sources like PWN and SNR, and variable Galactic sources such as microquasars and x-ray binaries. A systematic search for variability has been conducted on the Milagro sources and source candidates using time scales ranging from one day to two years. The results of this search, along with some simple spectral studies, will be presented.

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

Milagro

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, 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 731-734

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