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A Revised Catalogue of EGRET Sources

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Abstract content

We searched for gamma-ray sources in the EGRET data from cycle 1 to cycle 9. We used a 2D maximum likelihood method similar to that developed for the Egret 3EG catalog. Two interstellar background models, due to cosmic-ray interactions in the Milky Way, were used: a model where the most recent HI, CO, and inverse Compton maps were linearly fitted to the EGRET gamma rays and a model obtained from Galprop. An additional gas component, associated with cold dust, was also included in both models and fitted to the data. The source catalog obtained in this work strongly differs from 3EG catalog. One third of the 3EG sources have changed, either in position or in flux and significance. These changes primarily affect the unidentified sources. A search for likely blazar, pulsar, and supernova remnant counterparts has been performed on the new list and the results will be presented.

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 501-504

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