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Limits on MeV Gamma-Ray Emission from Active Galaxies and Other Unidentified High-Latitude Gamma-Ray Sources Observed with CGRO/COMPTEL

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Abstract content

We have established cumulative flux limits in the COMPTEL energy range (0.75-30 MeV) for a large sample of active galactic nuclei (AGN) of general interest. Our target list consists of both known and unidentified gamma-ray sources at high Galactic latitudes. Limits to the time-averaged MeV-emission measured with COMPTEL are derived from all-sky maximum-likelihood and flux maps produced using the full COMPTEL dataset spanning the entire nine-year period of the CGRO mission (April 1991-June 2000). The flux limits described here will be used to assess the contribution of AGN to the diffuse gamma-ray background measured in the MeV regime, and may serve to constrain the emission processes operative in high-energy cosmic sources.

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

On behalf of the CGRO/COMPTEL 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. 3 (OG part 2), pages 1085-1088

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