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Gamma-rays from globular clusters

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Abstract content

The millisecond pulsars in globular clusters can accelerate leptons at the shock waves originated in collisions of the pulsar winds and/or inside the pulsar magnetospheres. Leptons diffuse gradually through the globular cluster comptonizing stellar and microwave background radiation. We calculate the GeV-TeV γ -ray spectra for different models of injection of leptons and parameters of the globular clusters. The results of calculations are shown for four specific globular clusters (47 Tuc, Ter 5, M13, and M15) which might be potentially detected by the present Cherenkov telescopes and the planned satellite telescopes (AGILE, GLAST).

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 535-538

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