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Search for pulsed emission of TeV gamma rays from Geminga Pulsar

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Abstract content

Pulsed emission of gamma/X rays from Geminga pulsar were detected earlier at the period of ˜237 msec using EGRET/ROSAT instruments. However, there are conflicting reports about emission of pulsed gamma rays from this pulsar at very high energies. We have observed this source for about 56 hours using the PACT setup during the last 6 years spanning c. 2000 to 2006. This pulsar was found to undergo a glitch during 1996-97 from X-ray observations as reported by Jackson et al. We have analysed our data by extrapolaing the post-glitch pulsar elements to our epoch of observation and using the "TEMPO" package for calculating the pulsar phase of each event. In this paper we describe our data, analysis procedure and the results.

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

PACT

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 675-678

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