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Observation of the Crab Nebula in VHE-Gamma-Rays with the MAGIC

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Abstract content

The Crab nebula is the best known pulsar wind nebula and one of the most energetic sources of non-thermal radiation known in our Galaxy. It has been extensively studied over a broad range of energies from Radio to TeV gamma-rays. However, an observational gap in VHE-gamma-rays exists between the data available from satellite experiments and the currently running ground based experiments. The MAGIC imaging air Cherenkov telescope is currently the only operating ground based gamma ray experiment that is able to access gamma-ray energies <100 GeV where the peak intensity of the IC emission of the Crab nebula is expected.

We present our analysis of the Crab nebula, focused on energies around 100 GeV. We also discuss the results of our search for pulsed emission from the Crab pulsar.

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 827-830

Primary author(s): Mr. OTTE, A. Nepomuk (MPI für Physik, Munich)

Co-author(s): Dr. MAJUMDAR, P. (MPI für Physik, Munich); Dr. GAUG, M. (Università di Padova and INFN); Dr. LOPEZ, M. (Universidad Complutense, Madrid); Dr. CONTRERAS, J. L. (Universidad Complutense, Madrid)

Presenter(s): Mr. OTTE, A. Nepomuk (MPI für Physik, Munich)

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