



Contribution ID : 572

Type : **Poster**

Search for Pulsed VHE Gamma-Ray Emission from Pulsars with H.E.S.S.

Friday, 6 July 2007 14:45 (0:00)

Abstract content

We present recent results of a search for pulsed very-high-energy (VHE) gamma-ray emission from pulsars using data taken with the High Energy Stereoscopic System (H.E.S.S.), an array of imaging Cherenkov telescopes located in Namibia. The data set, accumulated during four years of operation until 2006, comprises observations of eleven young pulsars, selected according to their spin-down luminosity relative to distance, and two millisecond pulsars. No evidence for pulsed emission was found in any data set and differential upper limits on pulsed energy flux were derived, and compared to a variety of model predictions on VHE gamma-ray emission from the vicinity of pulsar magnetospheres.

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

H.E.S.S. Collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, 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 707-710

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Session Classification : Posters 2 + Coffee

Track Classification : OG.2.2