



Contribution ID : 269

Type : Oral

The H.E.S.S. survey of the inner Galactic plane

Saturday, 7 July 2007 10:54 (0:12)

Abstract content

The High Energy Stereoscopic System (H.E.S.S.), located in the Khomas Highlands of Namibia, is an array of four imaging atmospheric-Cherenkov telescopes designed to detect gamma rays in the very high energy (VHE; > 100 GeV) domain. Its high sensitivity and large field of view (5 deg) make it an ideal instrument to perform a survey within the Galactic plane for new VHE sources. Previous observations in 2004/2005 resulted in numerous detections of VHE gamma-ray emitters in the region $l = 330$ deg - 30 deg Galactic longitude. In the recent years the survey was extended, covering the regions $l = 280$ deg - 330 deg and $l = 30$ deg - 60 deg, leading to the discovery of several previously unknown sources with high statistical significance. The current status of the survey will be presented.

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'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 579-582

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Session Classification : OG 2.2

Track Classification : OG.2.2