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Discovery of TeV Gamma-Ray Emission in the W28 Region from HESS Observations, and Multiwavelength Comparisons

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Abstract content

H.E.S.S. observations of the old-age (more than 10000 yrs; about 0.5 deg diameter) composite SNR W28 reveal TeV emission situated at its northeastern and southern boundaries. The northeastern TeV source is in an area where W28 is interacting with a dense molecular cloud, containing OH masers, local radio and X-ray peaks. The southern TeV sources are found in a region occupied by several HII regions, including the ultra- compact HII region W28-A2. Our analysis of NANTEN CO data also reveals a dense molecular cloud enveloping this southern region. Further details concerning H.E.S.S., NANTEN, and other multiwavelength results will be presented at the conference.

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

HESS, NANTEN

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 563-566

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