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Study on the energy spectrum of Cygnus Region

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Abstract content

The Tibet air shower array experiment has been conducted at Yangbajing (90.522°E , 30.102°N ; 4300m above sea level) in Tibet, China, Since 1990. A search for extended emission from Cygnus region was carried out using data taken from the Tibet III (1999 November -2005 November) arrays. Spreading across -3° to 3° in Galactic latitude and 65° to 85° in Galactic longitude, an excess that peaks at DEC $\sim 36.2^{\circ}\text{N}$ and R.A. $\sim 304.6^{\circ}$ in the Cygnus region is detected at a significance level of $\sim 5.2\sigma$, coincident with the extended Milagro source locating at (304.83° , 36.83°). The spectra of gamma rays emission from this Milagro source and from Cygnus region have been analyzed preliminarily in TeV energy range.

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

as γ 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 695-698

Primary author(s) : WANG, yue (Institute of high energy physics)

Presenter(s) : WANG, yue (Institute of high energy physics)

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