



Contribution ID : 657

Type : Oral

Observations of a systematic selected sample of X-ray bright HBL objects with the MAGIC telescope

Monday, 9 July 2007 08:42 (0:12)

Abstract content

Up to now, nearly all the detected extragalactic VHE gamma-ray sources belong to the class of high-frequency peaked BL Lac objects (HBL), which show a pronounced peak in the hard X-ray band. All detected VHE sources show a comparable luminosity at TeV energies. MAGIC has started a systematic scan on X-ray bright HBL objects in the northern sky during its cycle1 observations from January 2005 to March 2006. Following the blazar compilation by Donato et al. (2001), 13 HBLs were selected with the criteria of low redshift (< 0.3), high X-ray flux ($F(1\text{keV}) > 2\mu\text{Jy}$) and visibility under small zenith distances ($< 30\text{deg}$ at culmination, leading to sources with a declination between -2 and $+58$). In that campaign 1ES 1218+30.4 was discovered and 1ES 2344+51.4 was detected in a low flux state with high significance. For another 10 sources upper limits on the integral flux above $\sim 200\text{GeV}$ will be presented at the conference.

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

MAGIC

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. 3 (OG part 2), pages 969-972

Primary author(s) : Mr. MEYER, Markus (Institut fuer Theoretische Physik und Astrophysik, Universitaet Wuerzburg)

Co-author(s) : Dr. BRETZ, Thomas (Institut fuer Theoretische Physik und Astrophysik, Universitaet Wuerzburg); Ms. DORNER, Daniela (Institut fuer Theoretische Physik und Astrophysik, Universitaet Wuerzburg)

Presenter(s) : Mr. MEYER, Markus (Institut fuer Theoretische Physik und Astrophysik, Universitaet Wuerzburg)

Session Classification : OG 2.3

Track Classification : OG.2.3