



Contribution ID : 72

Type : Oral

Detection of very high energy gamma-rays from the BL Lac object PG 1553+113 with the MAGIC telescope

Monday, 9 July 2007 10:30 (0:12)

Abstract content

The MAGIC telescope has observed very high energy gamma-ray emission from the BL Lac object PG 1553+113 in 2005 and 2006 at an overall significance is 8.8 sigma in 18.8h. The light curve shows no significant flux variations on a daily time-scale. The flux level during 2005 was, however, significantly higher compared to 2006. The differential energy spectrum between ~ 90 GeV and 500 GeV is well described by a power law with a spectral index of -4.2 ± 0.3 . The inferred photon energy spectrum allows to pose an upper limit on the (yet undetermined) redshift of the PG 1553+113.

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

MAGIC 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. 3 (OG part 2), pages 889-892

Primary author(s) : Dr. WAGNER, Robert (Max-Planck-Institute for Physics)

Co-author(s) : DORNER, Daniela (Universität Würzburg); HAYASHIDA, Masaaki (Max-Planck-Institute for Physics); HENGSTEBECK, Thomas (Humboldt University, Berlin); Dr. KRANICH, Daniel (ETH Zurich); MAZIN, Daniel (Max-Planck-Institute for Physics); TESCARO, Diego (IFAE Barcelona)

Presenter(s) : Dr. WAGNER, Robert (Max-Planck-Institute for Physics)

Session Classification : OG 2.3

Track Classification : OG.2.3