



Contribution ID : 71

Type : **Poster**

## **Detection of very high energy gamma-rays from the BL Lac object 1ES 2344+514 in a low emission state with the MAGIC telescope**

*Friday, 6 July 2007 14:45 (0:00)*

### **Abstract content**

The MAGIC telescope has observed very high energy gamma-ray emission from the AGN 1ES 2344+514. A gamma-ray signal corresponding to an 11 sigma excess and an integral flux of  $(2.38 \pm 0.30) \times 10^{-11} \text{ cm}^{-2} \text{ s}^{-1}$  above 200 GeV has been obtained from 23.1 hours of data taking between 2005 August 3 and 2006 January 1. The data confirm the previously detected gamma-ray emission from this object during a flare seen by the Whipple collaboration in 1995 and the evidence from long-term observations conducted by the Whipple and HEGRA groups. The MAGIC observations show a relatively steep differential photon spectrum that can be described by a power law with a spectral index of  $-2.95 \pm 0.12$  between 140 GeV and 5.4 TeV. The observations reveal a low flux state, about six times below the 1995 flare seen by Whipple and comparable with the previous Whipple and HEGRA long term measurements. During the MAGIC observations no significant time variability has been observed.

### **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 885-888

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**Session Classification :** Posters 2 + Coffee

**Track Classification :** OG.2.3