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Search for very high energy gamma rays from possible ultra-high energy cosmic sources with MAGIC telescopes

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Abstract content

The origin of the ultra-high energy cosmic rays (UHECRs; several times 10^{19} eV and higher) is an open question in the astroparticle physics. So far no astrophysical object has been still identified as UHECR sources within a limited source distance of several tens of Mpc by the GZK effect. In acceleration of such particles, the very high energy (VHE) gamma-ray emission is expected as well. In order to search for such VHE gamma-rays, we observed nearby galaxies using the MAGIC Telescope. Three possible sources had been selected from the catalogue in the direction close to the UHECR event triplet-cluster found by the AGASA experiment. In the present paper, we will report the result of our observation and discuss the possible interpretation of the UHECR origin models.

If this paper 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'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 949-952

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