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Observation of VHE gamma rays from HESS J1804-216 with CANGAROO-III Telescopes

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Abstract content

The H.E.S.S. collaboration has reported the detection of gamma-ray emission from eight new sources located in the Galactic Plane. HESS J1804-216 is one of the brightest of them, and its size and photon index make it one of the largest and softest sources. The H.E.S.S. collaboration proposed two possible counter parts, young Vela-like pulsar B1800-21 and the SNR G8.7-0.1, but it does not perfectly line up with them. Recently, the discovery of new supernova remnant, G8.31-0.09, with radio observation was reported, which located within the error circle of H.E.S.S., but more compact in size. Suzaku deep observations discovered new two X-ray sources, centered on the HESS J1804-216. Using SWIFT data found three faint X-ray sources in the region of HESS J1804-216, one of them near its center.

We observed HESS J1804-216 with CANGAROO-III telescopes from May to July in 2006. We detected gamma-ray signals with more than 5 sigma level during an effective exposure of 74.8 hours. The differential flux is consistent with that of H.E.S.S.. Its morphology is under study, but it seems extended compared to our PSF.

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

CANGAROO-III

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. 2 (OG part 1), pages 645-648

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