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Detection of 2006 TeV-outburst of PKS 2155-304 with the CANGAROO-III telescope

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Abstract content

Observations of PKS 2155-304 with the CANGAROO-III imaging atmospheric Cherenkov telescope were performed for 5 nights from July 28 to August 2 in 2006, just after H.E.S.S. reported that this target object was at a strong active state. Signal exceeding 6 sigma significance level was detected in the effective live time of 15.0 hours using three-fold stereoscopic data set. Obtained time averaged integral flux above 630 GeV is $(2.3 \pm 0.4) \times 10^{-11} \text{ cm}^{-2} \text{ sec}^{-1}$ which corresponds to $\sim 60\%$ Crab flux level. We found nightly variation of gamma-ray flux from PKS 2155-304. Follow up observations were done for 6 nights between August 17 and 25. Effective live time of this period is 17.1 hours and its activity settled down to $\sim 20\%$ Crab.

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

CANGAROO 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 905-908

Primary author(s) : Ms. SAKAMOTO, Yukiko (Department of Physics, Tokai University)

Co-author(s) : Prof. NISHIJIMA, Kyoshi (Department of Physics, Tokai University); Mr. YAMAZAKI, Eiichi (Department of Physics, Tokai University); Dr. KUSHIDA, Junko (Department of Physics, Tokai University); Mr. MIZUKAMI, Taku (Department of Physics, Kyoto University); Dr. ENOMOTO, Ryoji (Institute for Cosmic Ray Research, University of Tokyo)

Presenter(s) : Ms. SAKAMOTO, Yukiko (Department of Physics, Tokai University)

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