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Calibration of TA Surface Detectors

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Abstract content

The surface detector of Telescope Array(TA) experiment are deployed in desert of western utah,USA. The detector consists of two layers of plastic scintillators of 3m2 area with wave length shifter fiber(WLSfiber). And at each layer,PMT are connected with WLS fibers. At each layer ,2 LEDs are also equipped to check PMT linearity. To estimate number of shower particles with good accuracy, it is needed toknow the response for 1 minimum ionization particle and the environmental effect on it. PMT linearity are also needed to be monitored and calibrated. Here we report observed variation on detector response and its calibration. And the result of linearity check with LEDs also will be reported.

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

Telescope Array 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. 5 (HE part 2), pages 1005-1008

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