30th International Cosmic Ray Conference

Contribution ID : **825** Type : **Oral**

LOPES30 data analysis

Friday, 6 July 2007 09:30 (0:12)

Abstract content

LOPES30 is a digital radio antenna array working in the frequency range 40 – 80 MHz with 30 dipole antennas triggered by the air shower experiment KASCADE-Grande. From an absolute calibration the measured field strength of the LOPES30 antenna system is known and the invesitigation of a large data set taken in east-west polarisation is performed. The reconstructed pulse height of the radio emission in extensive air showers is the measured quantity to be compared with the KASCADE-Grande reconstruction parameters, like primary energy or shower geometrie on a single air hower basis. The resulting correlations will also be compared with expectations from detailed Monte Carlo simulations.

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

LOPES 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. 4 (HE part 1), pages 131-134

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Session Classification : HE 1.2.A

Track Classification : HE.1.2.A