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Zenith Angle Distribution and Atmospheric Effect for EAS with LAAS experiments

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Abstract content

Extensive air shower (EAS) observation has been performed by the compact and synchronized EAS arrays by LAAS experiments. The zenith angle distribution and atmospheric effects were examined in order to obtain EAS absorption coefficients in the air and the relation between them and spectral index. The atmospheric effects are going to be analyzed as function of local solar time in harmonic analysis. The emperature and barometric pressure effects are clearly reproduced in the meterological diurnal variation. We are going to discuss on these effects and corrections.

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

Large Area Air Shower experiments : LAAS

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 47-50

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