



Contribution ID : 965

Type : Oral

Estimation of the Energy Spectra of Primary Cosmic Ray Nuclei

Wednesday, 4 July 2007 12:05 (0:12)

Abstract content

Energy spectra and chemical composition of the primary cosmic ray nuclei for energies higher than 1 PeV are obtained mainly from measurements of intensities and various properties of extensive air showers. Additional and important data from the study of gamma ray families are available in addition. In both cases we have information from the range of very high fluctuations. An important fact that we are working with the very steep primary energy spectra has to be taken into account. In this research different probability distributions have been used as well as their convolutions with power primary spectrum. The role of the influence of different parameters on the measurements of primary spectra will be discussed in the paper.

If this paper is presented for a collaboration, please specify the 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. 2 (OG part 1), pages 145-148

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Session Classification : OG 1.2

Track Classification : OG.1.2