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EAS Longitudinal Development and the Knee

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Abstract content

It is shown that EAS longitudinal development has a critical point where an equilibrium between the main hadronic component and the secondary electromagnetic one is broken. This results in a change of slope in quasi-power law function Ne(Eo). The latter leads to a knee in the EAS size spectrum at primary energy of about 100 TeV/nucleon at sea level.

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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 69-72

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