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Electron and muon shower size spectra reconstructed with KASCADE-Grande data

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Abstract content

KASCADE-Grande, located at Forschungszentrum Karlsruhe, is a multi detector experiment for the measurement of extensive air showers induced by primary cosmic rays in the energy range of $10^{14} - 10^{18}$ eV. With its 0.5 km² large field detector, in combination with the muon detectors of the KASCADE array, it allows the reconstruction of both the total electron and muon numbers, which are important observables for estimating the mass and the energy of the primary particles. In this work we will present the status of the electron size spectrum as well as the 2-dimensional (Ne-Nmu) shower size spectrum after 3 years of stable data taking.

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

KASCADE-Grande 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 211-214

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