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A shape of charged particle lateral distribution in individual EAS events with energy above 10^{19} eV arriving from different celestial regions

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Abstract content

A shape of lateral distribution for charged particles in events with energy above 10^{19} eV is considered. Two methods were used for individual LDF parametrization. In the first approach, the index of power was determined for generalized Greisen-Linsley approximation. In second, mean square radius of the shower was determined for approximation proposed by Lagutin et al. Comparison of resulted parameters is presented for individual events arrived from different celestial regions – Galactic and Supergalactic planes and the region with increased flux of particles with $E \geq 10^{19}$ eV (according to Yakutsk array): $1.7^\circ < \alpha < 3.7^\circ$; $45^\circ < \Delta < 60^\circ$.

If this papers 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. 4 (HE part 1), pages 291-294

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