

Lateral density distributions of muons and electrons in EAS from the KASCADE-Grande data for different zenith angle intervals.

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The present study provides results for the lateral density distributions of muons and electrons in EAS between 10 PeV and 1EeV with the KASCADE-Grande data.

A comparison between lateral density distributions simulated using the models QGSJET-II-04, EPOS-LHC, SIBYLL 2.3 and SIBYLL 2.3 c with experimental data is presented as a test for these high-energy hadronic interaction models.

