RESULTS OF EAS CHARACTERISTICS CALCULATIONS IN THE FRAMEWORK OF THE UNIVERSAL HADRONIC INTER-ACTION MODEL NEXUS

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An extensive air shower (EAS) calculation sheme based on cascade equation and some EAS characteristics for energies 10^{14}–10^{17} eV are presented. The universal hadronic interaction model NEXUS is employed to provide the necessary data concerning hadron–air collisions. The influence of model assumptions on the longitudinal and lateral EAS development is discussed in the framework of NEXUS and QGSJET models.