FLUCTUATIONS OF PARTICLE DENSITY IN GIANT AIR SHOWERS

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We had performed simulations of shower development using CORSIKA v.5.62 code for primary proton and iron nuclei with energies 10^{11} GeV/nucleon with thinning factor 10^{-6}. We studied fluctuations of main EAS components density and their dependence on the distance from the shower core. Consequences for future UHE showers measurements are discussed.