

THE FORMATION OF THE UNITED METAGALACTIC ENERGY SPECTRUM OF THE COSMIC RAYS

S.I. Nikolsky, V.G. Sinitsyna
P.N. Lebedev Physical Institute of Russian Academy of Science
Leninsky prospect 53, 117924, Moscow, Russia

The investigation of the extensive air showers is revealed the absent of the breaks in the spectrum of the showers, generated by the primary protons at the atmosphere depths more than 200g/cm^2 , and in the spectrum of the showers produced by the primary nuclei. It is equivalent to the absent of any knee in the energy spectrum of the primary cosmic rays in the region $10^{15} - 10^{18}$ eV. The united galactic and metagalactic spectrum $\sim E_0^{-2.7}dE$ extends from 10^{12}eV until 10^{19}eV . One discusses the possible process formation of the united metagalactic energy spectrum of the cosmic rays.