Abstract

On data of the Russian-Japanese balloon experiment RUNJOB the result of re-treatment of nucleon-nuclear interactions registered in the stratospheric X-ray emulsion chambers (XEC) with using a new method of searching and tracking of galactic particles in nuclear emulsions is presented. For all the nucleon-nuclear interactions (~50) from REC 3B, 6A and 11-A, B, with energy released into electromagnetic component ΣΕγ≥3ТeV and ΣΕγ≥5ТeV, respectively, about half of the single charged tracks are absent in the search area, defined individually by the location accuracy. There is a difference in the angular distribution of particles in two groups of events: with observed or with absent track of single charged particle. The mean depth of the particle penetration in XEC to the vertical point of interaction for zenith angle interval of 600-790 in these groups differs in about two times.