

## **COMPARISON OF THE EXPERIMENTAL AND SIMULATED DATA FOR THE GAMMA ARRAY (ARMENIA)**

A.P.Garyaka(1), V.S.Eganov(1), E.A.Mamidjanian(2), R.M.Martirosov(1), J.Procureur(3), H.E.Sogoyan(1)

(1) Erevan Physics Institute, Br. Alikanian St.2, 375036 Erevan, Republic of Armenia

(2) P.N.Lebedev Institute, Leninsky pr. 56, Moscow 117924, Russia

(3) Centre d'Etudes Nucléaires de Bordeaux-Gradignan, Université Bordeaux 1 rue du Solarium, 33175 Gradignan-Cedex, France

Experimental results of the phenomenological characteristics of the electron component of EAS with sizes  $3 \cdot 10^5 < N_e < 10^7$ , at the observation level  $700 \text{ g.cm}^{-2}$ , are obtained with help of the GAMMA array at the Mt. Aragats in Armenia, in the frame of the ANI experiment. The experimental results are in a good agreement with the simulation data carried out using the CORSIKA code.

On the other hand, a new method to select showers generated by primaries with different masses but with the same primary energy is proposed and applied with a good agreement between the experimental and simulated results.