

EAS Studies on Mt. Aragats

A.Chilingarian for the ANI collaboration

Yerevan Physics Institute, P.N. Lebedev Institute

The reliable operation of the Cosmic Ray (CR) research station on Mt. Aragats (3200 m a.s.l.), continuously measuring Extensive Air Showers (EAS) during the last five years provide sound basis for further detailed analysis of EAS phenomena.

The three year data base of MAKET ANI experiment and one year data base of the GAMMA experiment give new results on the fine structure of the EAS spectra measured under different zenith angles.

The newest results on the physics around "knee", exploiting our approach of multidimensional multidetector EAS investigations will be reported.

Perspectives of developing Aragats research station facilities and analysis methods will be discussed.

Presentation: Oral - yes

Topic: OG