

A PECULIARITY OF HIGH ENERGY γ -QUANTA ABSORPTION IN THE ATMOSPHERE (EC DATA).

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The data of X-ray emulsion chamber experiments, which have been carried out in different levels of the atmosphere depth, are compared. The resulting absorption curve is differed from simple exponential low. This conclusion is confirmed by the form of the γ -quanta angular distribution which was measured in experiment "Hadron" (Tien-Shan, 685 g/cm²). A value of the attenuation length λ_{att} is changed a few times depending from depth in atmosphere p: $\lambda_{att} = 80 \pm 8$ g/cm² for $p \simeq 200 - 500$ g/cm², it increases up to $\lambda_{att} = 250 \pm 40$ g/cm² in the range $p \simeq 500 - 700$ g/cm² and decreases to $\lambda_{att} = 40 - 60$ g/cm² for larger depths. The possible methodical effects and an explanation of the absorption curve shape by means of the penetrating CR component are discussed. The anomalous γ -quanta absorption can signalled about the new channels of the pions generation deep in the atmosphere.