

ERZION INTERPRETATION OF NEGATIVE PENETRATING COSMIC RAY PARTICLES EXCESS FLUX OBSERVED IN BUBBLE CHAMBER “SKAT”

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It is discussed the interpretation of negative penetrating cosmic ray particles excess flux observed in bubble chamber “SKAT” for the momentum range- $P > P_0 = 30$ GeV/c by Erzions, hypothetical heavy stable penetrating hadrons, proposed to explain the abnormal vertical muons energy spectrum at small depth underground. Here it is shown that negative charge of particles observed in “SKAT” is the same as predicted by theoretical Erzion model. The excess particles intensity ($J \sim 10^{-5} \text{ cm}^{-2} \text{ s}^{-1} \text{ sr}^{-1}$) corresponds to the Erzion intensity observed by scintillation telescope in our previous experiment. The threshold momentum (P_0) and the track length threshold ($L = 50$ cm of liquid BrF_3C) are in good accordance with Erzion stop path as for the single charged particle with mass - $M \cong 200 \text{ GeV}/c^2$. But to don't contradict with all previous charge ratio results for cosmic ray muons in 30 – 100 GeV/c momentum range it is necessary to propose for such particles the Solar sporadic origin taking to account that both Erzion observations were in the active Sun years (April 23,1979 & July, 1999).