

**OBSERVATION OF EXCESS FLUX FOR NEGATIVE COSMIC RAY
PENETRATING PARTICLES IN BUBBLE CHAMBER “SKAT”
FOR MOMENTUM RANGE (30 GeV/c < P < 126 GeV/c)**

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There are presented the first results of the new heavy stable cosmic ray particles search in the bubble chamber “SKAT” (4500 x 160 x 90 cm³), which was exposed in the neutrino beam of Serpukhov Accelerator during 1976 – 1992 years and was viewed along the horizontal direction so as the magnet field direction (MDM ~ 150 GeV/c). From looking over 1,270 stills (1 film for April 23, 1979) it was selected 757 tracks of cosmic ray particles with zenith angle - $\theta < 45^\circ$, track length - $L > 50$ cm and momentum - $P > 2$ GeV/c. From this events there were constructed momentum spectrums for both negative and positive vertical cosmic ray penetrating particles in the (2.0 – 126) GeV/c range and calculated their charge ratio. For positive particles the momentum spectrum has normal shape in all studied range the same as for negative particles but only for momentum range (2.0 – 30) GeV/c and charge ratio for this range is normal and the same as for cosmic muons. But for momentum - $P > 30$ GeV/c it was observed negative particles excess flux ($\sim 10^{-5} \text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1}$) with changed charge ratio - $R = 0.62 \pm 0.18$ ($\Delta > 3.5 \sigma$) for momentum range (30 GeV/c < P < 126 GeV/c).