

**CHARGE-EXCHANGE PROCESSES $\pi^\pm A \rightarrow \pi_L^0 + \dots$ IN
GAMMA-FAMILIES FORMATION.**

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In the paper presents the results of comparative analysis of black spot shapes created by γ -quanta, single hadrons and family hadrons in the carbon X-ray emulsion chambers. On the basis of such analysis the probability of the charge-exchange processes $\pi^\pm A \rightarrow \pi_L^0 + \dots$ at the hadron energies $E_h = 10 - 100$ TeV is obtained.