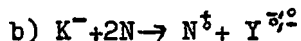
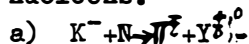


ON THE INTENSITY OF EMISSION OF FRAGMENTS ${}^8\text{B}$ IN
THE INTERACTION OF K^- MESONS WITH NUCLEAR EMULSION

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The emission of $A=8$ fragments in the interaction of K^- mesons with nuclei of nuclear emulsion is studied. By usual identification manner of hammer fragments according to the measurements of the width of prongs and the number of the emitted electrons, it was found as expected, that among all the hammers there are 1.8% of ${}^8\text{B}$ and 3.2% of ${}^8\text{He}$. The interaction of K^- mesons with nuclei occurs via interaction with one and more nucleons.



The investigation of interaction with nuclei of nuclear emulsion in which hammer fragment is emitted shows that 75% of the interaction occurs on the nuclei of C, N and O, and that the most frequent channel is that in which three charged particles are emitted (55%). In 90% of cases this channel includes the interaction on C, N or O. In this channel the emission of negative charged particles is followed by the emission of hammer fragments ${}^8\text{B}$. On the basis of the estimated quantity of emitted negative charged particles, the lower limit of the emitted hammer fragments ${}^8\text{B}$ is found to be 27%. In the same time the ratio of the positive and negative charged π -mesons in these reactions with three charged prongs is 1.1 while for all the stars with hammer prongs $\pi^+/\pi^- = 1.3$ and for general interaction in the emulsion $\pi^+/\pi^- = 3.9$.