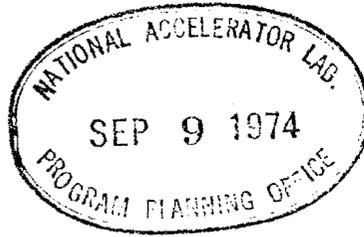


Sept. 5, 1974

Experimental proposal



Title

Multiparticle production in nucleon-nucleus collisions
at 400 GeV

Names of experimenters

F. Fumuro, R. Ihara, T. Ogata and Y. Yukimasa

Name of scientific spokesman

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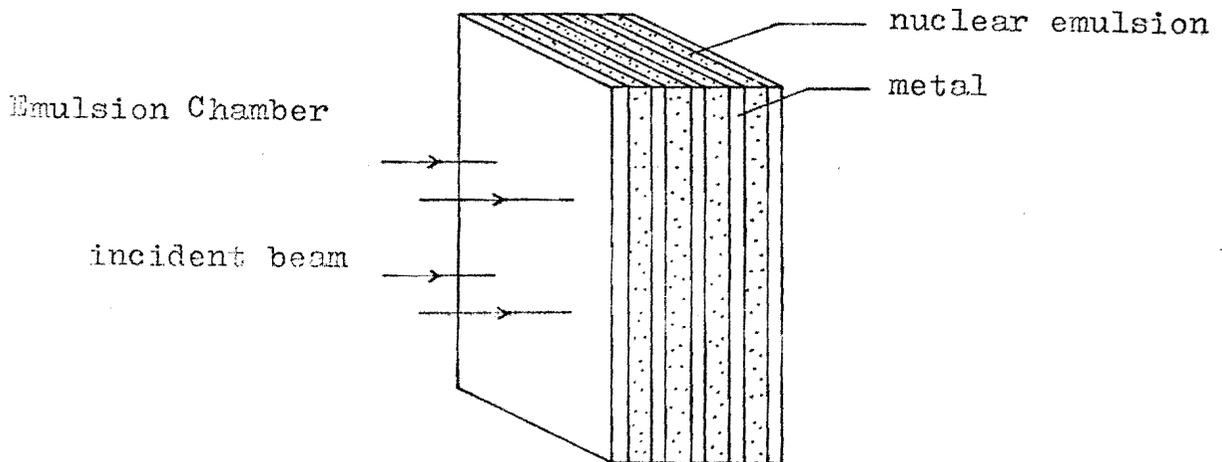
cc L. Vayvodas
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Object

The object of our experiment is to investigate the mass number (A) dependence of various quantities such as absorption cross section, multiplicity, inelasticity, angular distribution etc. at 400GeV proton-nucleus interactions.

Instrument

To investigate the nucleon-nucleus interactions, emulsion chambers are used. The emulsion chamber consists of nuclear emulsion and various metals piled up in an alternative way. The total size of this chamber is 10cm x 10cm x 2.5cm. Four chambers are prepared for this experiment.



Exposure

The chambers are exposed to proton beam in the vertical direction to the emulsion plane.

Beam intensity

10^5 particles/cm²