

Scientific Spokesman:

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Exposure of Plastic Detector Stacks to a 300 GeV Proton Beam at NAL

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December 1973

Institut für Reine und Angewandte Kernphysik
der Christian-Albrechts-Universität Kiel
Direktor Prof. Dr. E. Bagge

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NAL DIRECTORS OFFICE

To
Dr. Edwin L. Goldwasser
Director NAL

Batavia, Illinois 60510

U.S.A.

DEC 17 1973

Dear Dr. Goldwasser:

This is the description of our experiment for which the exposure has been already done on Oct. 20, 73 through the courtesy of Prof. P.S. Young of the Mississippi State (Exp 195) University and Dr. L. Voyvodic.

Four plastic-detector stacks (5 cm x 5 cm x 3 cm) have been exposed to the 300 GeV proton beam (1.2×10^3 proton/cm² and 1×10^5 proton/cm²). Our intention is to study evaporation and spallation effects originated by relativistic protons in the C and O atoms of the plastic-detector itself. The study of these effects is necessary to back up our measurements on the isotopic composition of the light cosmic ray nuclei.

I like to thank you very much for the courtesy of the exposure without having our formal request.

Sincerely yours,

N. Engel