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PROPOSAL FOR AN EMULSION EXPERIMENT IN THE FAST

EJECTED PROTON BEAM OF THE PS

by

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The test experiment mentioned in the proposal has been carried out on 14th February.

The background of particles not originating in the target has been found to be about 20% of the total number of tracks. In the proposed experiment this ratio will be improved by a factor of ten in the following way.

The number of background tracks as well as the total number of tracks will be reduced to 10% by decreasing the machine intensity from about $5 \cdot 10^{11}$ to $5 \cdot 10^{10}$ protons per pulse.

By taking a target thickness of 200 μ instead of 20 μ the number of particles originating in the target will be brought back to the original value, leaving the "coil-background" at about 2%.