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PROPOSAL FOR CONTINUED INVESTIGATION

OF 19 GeV/c PROTON-PROTON REACTIONS.

(Copenhagen, Oslo, Stockholm and Helsinki)

The Nordic pp collaboration is investigating inelastic proton-proton reactions at 19 GeV/c (100,000 pictures approved by NPRC for T82). The first aim is to measure 10,000 4-prong events which will yield 1,500 - 2,000 events of the type $pp \rightarrow pp \pi^+ \pi^-$. This study will give information on the isobar production and also on the measurability and the amount of ambiguity at high energy.

In the future other types of final states will be studied. Also low cross section channels will be taken up which will require more pictures than those so far approved. This proposal concerns these later phases of the work for which a request of up to a total of 500,000 pictures of 19 GeV/c protons in the 2 m HBC is made. As an example, this amount of film is estimated to give 7,000 measurable events with two observed strange particles (2 V events of all types).

On behalf of the Nordic pp collaboration

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