

DIMUON PRODUCTION BY PIONS AND PROTONS WITH A LARGE-ACCEPTANCE SPECTROMETER*

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ABSTRACT

In an experiment in progress at the Fermi National Accelerator Laboratory, we have measured the production of dimuons in 150 GeV/c π^+ - Be and p - Be collisions, using the Chicago-Cyclotron muon spectrometer to achieve large acceptance and good resolution. We shall report the first result of a preliminary test run which has just been completed, namely, a comparison of $J(\psi)$ production by pions and protons. Additional features of the data, including a preliminary search for high-mass dimuons, will also be discussed.

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