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Hadron-Induced High Energy
-Inclusive Reactions

Inclusive Dimuon Production at FNAL.*† G. G.
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J. E. PILCHER, E. I. ROSENBERG, G. H. SANDERS, A. J. S.
SMITH, and J. J. THALER. University of Chicago and
Princeton University.--Inclusive production of muon pairs
by hadrons incident on nuclear targets has been observed
using the Fermilab Chicago Cyclotron Magnet Spectrometer.
The large aperture of the cylindrical magnet (2.1 m radius,
7.27 m gap height) gives the spectrometer, for our target
configuration, smooth acceptance over the range: 0.05 <
x_F (the Feynman scaling variable) < 1; 0 < p_L < 4 GeV/c;
0.5 < M_{\mu\mu} < 12 GeV/c^2. The experimental technique will
be briefly described and effective mass spectra will be
presented. Dependence of the inclusive dimuon cross
section (M_{\mu\mu} \geq 1.5 GeV/c^2) on x and p_L may also be
presented.

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†Submitted by E. I. ROSENBERG

To precede abstract entitled
"Inclusive Vector Meson Production
in Dimuon Final States at FNAL,"
submitted by J. E. PILCHER.

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