Inclusive Spectra and Large-Angle Correlations of Pions and Protons in π Be Collisions at 43 GeV/c

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Received February 20, 1998; in final form, July 1, 1998

Abstract—In π Be interactions induced by 43-GeV/c pions, the inclusive spectra of secondary pions and protons with emission angles satisfying the condition $0.20 < \cos\theta < 0.75$ and momenta in the ranges 0.3–1.0 and 0.5–1.5 GeV/c, respectively, have been analyzed, and large-angle correlations between two such hadrons have been determined. The results suggest that secondary hadrons can be formed both in deep-inelastic interactions and in collisions with quasifree nucleons.