

BACKWARD PRODUCTION OF K^* (892) IN $K^+p \rightarrow K^0\pi^+p$
AND $K^+d \rightarrow K^+\pi^-p(p_g)$ REACTIONS BETWEEN 3.0 GeV/c AND 5.0 GeV/c

G. CHARRIERE⁺, W. DUNWOODIE, C. FERRO-FONTAN, Y. GOLDSCHMIDT-CLERMONT,
F. MULLER, M. NIKOLIC⁺⁺, J. QUINQUARD
CERN, Geneva, Switzerland

G. DEHM, W. GEIST, G. GÖBEL, W. WITTEK, G. WOLF
Max-Planck Institut für Physik und Astrophysik, München, Germany

P. CORNET, P. DUFOUR, F. GRARD, V.P. HENRI, R. WINDMOLDERS,
Faculté des Sciences, Université de l'Etat, 7000 MONS, Belgium

G. De JONGH, S. TAVERNIER
Institute for High Energies, ULB-VUB, Brussels, Belgium
Data from the International K^+ collaboration.

ABSTRACT:

Data for backward production of K^{*+} (892) are given for the reaction $K^+p \rightarrow K^0\pi^-p$ at 3.0, 3.5, 4.6 and 5.0 GeV/c and for K^{*0} (892) backward production in the reaction $K^+d \rightarrow K^+\pi^-p(p_g)$ at 3.0 and 4.6 GeV/c. Energy dependence of the cross section for this reaction exhibits a simple (p_{lab}^{-n}) behaviour, with $n=2.7 \pm 0.3$. The production and decay angular distributions are presented. Comparisons with other backward reactions are made in terms of baryon exchange.

⁺ Now at Centre de Recherches Pédagogiques, Genève, Switzerland

⁺⁺ Visitor from University of Novi Sad, Yugoslavia

⁺⁺⁺ On leave of absence from the University of Buenos Aires,
Argentina Fellow of Consejo Nacional de Investigaciones
Científicas y Técnicas de la Republica Argentina.