

Meson photoproduction on the neutron at GRAAL

V. Bellini^(a), J.P. Bocquet^(b), L. Casano^(c), M. Castoldi^(d), A. D'Angelo^(c), J.-P. Didelez^(e),
R. Di Salvo^(c), A. Fantini^(c), D. Franco^(c), G. Gervino^(f), F. Ghio^(g), B. Girolami^(g), A.
Giusa^(a), M. Giudal^(e), E. Hourany^(e), R. Kunne^(e), V. Kuznetsov^(h), A. Lapik^(h),
P. Levi Sandri⁽ⁱ⁾, A. Lleres^(b), D. Moricciani^(c), A.N. Mushkarenkov^(h), V. Nedorezov^(h), C.
Randieri^(a), D. Rebreyend^(b), N. Rudnev^(h), G. Russo^(a), C. Schaerf^(c), M.-L. Sperduto^(a),
M.-C. Sutura^(a), A. Turling^(h)

^(a) INFN Sezione di Catania, 95123 Catania, Italy

^(b) LPSC 38026 Grenoble, France

^(c) INFN Sezione di Roma II, 00133 Roma, Italy

^(d) INFN Sezione di Genova, 16146 Genova, Italy

^(e) IPN, 91406 Orsay Cedex, France

^(f) INFN Sezione di Torino, 10125 Torino, Italy

^(g) INFN Sezione di Roma I, 00185 Roma, Italy

^(h) INR, 117312 Moscow, Russia

⁽ⁱ⁾ INFN LNF, 00044 Frascati, Italy

Using a deuterium target, the GRAAL experiment has collected meson photoproduction data. The data have been analysed in the quasi-free regime. The results of the quasi free process on the proton reproduce quite well the results previously obtained with hydrogen target. The results on the quasi free neutron for π^0 and η photoproduction are presented and discussed.

E-mail: Paolo.Lewisandri@Inf.infn.it