

Japan Charged-Particle Nuclear Reaction Data Group

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Memo CP-E/096 (Revised)

Date: July 24, 2006
To: Distribution
From: OTSUKA Naohiko
Subject: Compilation of anti-proton induced nuclear reaction data from the world

Recently of reaction cross sections (=non-elastic cross section) and elastic scattering angular distributions are systematically analysed by Japanese researchers to study relations of these quantities to nuclear radii, based on the pictures like “absorption of black sphere” and “Fraunhofer diffraction”. This is an interesting new application of EXFOR data in nuclear physics. (Example: A. Kohama *et al.*, Phys. Rev. **C69** (2004) 064316 and **C72** (2005) 024602)

Now they start a new analysis with anti-proton induced nuclear reaction data, and we decided to provide relevant data. However, only Japanese data can be in EXFOR, because area J is now the unique CIC for data from anti-proton beam. Therefore I propose compilation of anti-proton data (belonging to CS, CSP, DA, DAE, DAP, and POL in dictionary 113) *from the world* in area J.

I also propose update of dictionary 33 in order to allow particle code AP in SF2.

Dictionary 33 (Particles)

AP Antiprotons Add flag 2 at column 64.

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