

Japan Charged-Particle Nuclear Reaction Data Group

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Date: August 8, 2002
To: Distribution
From: KATO Kiyoshi
Subject: Dictionary 27 update (Nuclides used as projectile),
Dictionary 36 update (Analyzing power)

1. Neutron rich Lithium used as projectile

We are compiling an experiment which measured ${}^9\text{Li}+p$ and ${}^{11}\text{Li}+p$ elastic scattering cross sections at 60MeV/A (C.-B. Moon et al., Phys. Lett. **B297** (1992) 39). The secondary beams of ${}^9\text{Li}$ and ${}^{11}\text{Li}$ were produced at RIKEN Ring Cyclotron facility. We propose to put flag 2 at column 14 for these nuclei in Dictionary 27.

Dictionary 27 (Nuclides)

3-LI-9 Flag 2 at column 14
3-LI-11 Flag 2 at column 14

2. Analyzing power with respect to two angles and energy

We are compiling an experiment which gives analyzing power as a function of emitted proton energy at fixed angles of proton and coincident alpha in $(p,p+\alpha)$ reactions (T. Yoshimura et al., Nucl. Phys. **A641** (1998) 3). We propose to add the following code:

Dictionary 36 (Quantities)

, POL/DA/DA/DE , P/A/P , ANA NO Analyzing power $d^3/dA(p)/dA(a)/dE(p)$

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