

Japan Charged-Particle Nuclear Reaction Data Group

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Memo CP-E/115

Date: March 31, 2007
To: Distribution
From: OTSUKA Naohiko
Subject: Dictionary 236 (Quantities) update

I found one mistake in REACTION record of R0031, which gives ^{81g}Rb (4.5 hr) yield from ^{82}Kr (p,2n) reaction. The krypton target (100 mm thick) was irradiated for 30 second. Ratios of ground state activity yield (Becquerel / Coulomb) by direct process to those of indirect process (ground state production via isomeric transition from the 30 min isomeric state) are given. I propose to replace

REACTION ((36-KR-82(P,2N)37-RB-81-G,M+,PY,,EXP) /
(36-KR-82(P,2N)37-RB-81-G,IND,PY,,EXP))

in R0031.002 by

REACTION (((36-KR-82(P,2N)37-RB-81-G,,TTY,,DT) -
(36-KR-82(P,2N)37-RB-81-G,M-,TTY,,DT)) /
(36-KR-82(P,2N)37-RB-81-G,M-,TTY,,DT))

Dictionary 236 (Quantities)

M-,TTY,,DT Production thick/thin target yield excluding isomeric transition

Quantity	Type	Dimension	Reference	Subentry
M-,TTY,,DT	TT	TTT	J.L.L.Mulders <i>et al.</i> , Appl. Radiat. Isot. 34 (1983)717	R0031.002

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