

**Nuclear Data Section
International Atomic Energy Agency
P.O.Box 100, A-1400 Vienna, Austria**

Memo CP-D/507

Date: 22 July 2008
To: Distribution
From: N. Otsuka, S. Dunaeva

Subject: SF7 (particle considered) for capture gamma multiplicity

Five subentries in PRELIM.4143 give gamma multiplicities in neutron capture reactions at resonances. According to our coding rule - "The particle considered should be omitted if there is no ambiguity.", the SF7 field (particle considered) should be empty for these subentries. I propose the following new quantity code for coding of multiplicity at resonance.

Dictionary 236 (Quantities)

,MLT , ,RES Multiplicity at resonance

Quantity	Reaction Type	Dimension	Subentry
,MLT , ,RES	MTR	YLD	(See next page)

Subentries of gamma multiplicity which have redundant G in SF7 are listed in the next page.

Distribution:

a.mengoni@iaea.org
a.nichols@iaea.org
blokhin@ippe.ru
chiba@earth.sgu.ac.jp
claes.nordborg@oecd.org
ganesan@barc.gov.in
gezg@ciae.ac.cn
hasegawa@nea.fr
henriksson@near.fr
hongwei@ciae.ac.cn
jhchang@kaeri.re.kr
kaltchenko@kinr.kiev.ua
katakura.junichi@jaea.go.jp
kato@nucl.sci.hokudai.ac.jp
kirarlyb@atomki.hu
l.vrapcenjak@iaea.org
manokhin@ippe.ru
mmarina@ippe.ru

mwherman@bnl.gov
nklimova@kinr.kiev.ua
n.otsuka@iaea.org
nrhc@jcprg.org
oblozinsky@bnl.gov
ogritzay@kinr.kiev.ua
samaev@obninsk.ru
s.babykina@polyn.kiae.su
s.dunaeva@iaea.org
stakacs@atomki.hu
stanislav.hlavac@savba.sk
taova@exped.vniief.ru
tarkanyi@atomki.hu
varlamov@depni.sinp.msu.ru
vlasov@kinr.kiev.ua
vmclane@optonline.net
v.zerkin@iaea.org
yolee@kaeri.re.kr

Subentries of gamma multiplicity which have redundant G in SF7

Delete G in SF7 and resubmit.

1. Subentries in PRELIM.4143

Subentry	REACTION
41353.002	94-PU-239(N,G) , , MLT,G,RES
41353.005	94-PU-239(N,G) , , MLT,G,RES/AV
41353.007	92-U-235(N,G) , , MLT,G,RES/AV
41353.009	94-PU-239(N,G) , , MLT,G,RES
41511.005	92-U-235(N,G) , , MLT,G,RES

2. Other subentries in EXFOR

Subentry	REACTION
22482.005	66-DY-161(N,G)66-DY-162 , , MLT,G,SPA
22482.006	66-DY-162(N,G)66-DY-163 , , MLT,G,SPA
22482.007	66-DY-163(N,G)66-DY-164 , , MLT,G,SPA
22648.003	68-ER-167(N,G)68-ER-168 , PAR,MLT,G,SPA
22960.002	40-ZR-90(N,G)40-ZR-91 , PAR,MLT,G,AV
22960.002	40-ZR-90(N,G)40-ZR-91 , PAR,MLT,G,MSC/AV
22960.003	40-ZR-94(N,G)40-ZR-95 , PAR,MLT,G,AV
22960.003	40-ZR-94(N,G)40-ZR-95 , PAR,MLT,G,MSC/AV
41122.004	62-SM-147(N,G) , , MLT,G,RES
41353.002	94-PU-239(N,G) , , MLT,G,RES
41353.005	94-PU-239(N,G) , , MLT,G,RES/AV
41353.007	92-U-235(N,G) , , MLT,G,RES/AV
41353.009	94-PU-239(N,G) , , MLT,G,RES
41368.008	92-U-235(N,G) , , MLT,G,RES
41353.009	94-PU-239(N,G) , , MLT,G,RES
41368.009	94-PU-239(N,G) , , MLT,G,RES
41443.002	64-GD-158(N,G) , PAR,MLT,G,RES
41443.003	64-GD-158(N,G) , PAR,MLT,G,RES
41443.004	64-GD-158(N,G) , PAR,MLT,G,RES
41443.005	64-GD-158(N,G) , PAR,MLT,G,RES/AV
41482.003	70-YB-173(N,G) , PAR,MLT,G,RES
41482.004	70-YB-173(N,G) , PAR,MLT,G,RES/AV
41482.005	70-YB-173(N,G) , PAR,MLT,G,RES/AV
41482.006	70-YB-172(N,G) , PAR,MLT,G,RES/REL