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**Memo CP-D/507 (Revised)**

**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.

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**Subentries of gamma multiplicity which have redundant G in SF7**

Delete G in SF7 and resubmit.

**1. Subentries in PRELIM.4143**

<b>Subentry</b>	<b>REACTION</b>
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**

<b>Subentry</b>	<b>REACTION</b>
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
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
41368.009	94-PU-239(N,G) , , MLT,G,RES