

**Memo issued on behalf of
National Nuclear Data Center
Brookhaven National Laboratory
USA**

Memo CP-C/399 (Rev.)

Date: 14 November 2011
To: Distribution
From: O. Schwerer and N. Otsuka
Subject: **Coding of energy spectrum and yield of prompt fission gammas:
Addition of PR,FY/DE and PR/PAR,FY to dictionary 236;
addition of PD/FIS/MEV to dictionary 25**
Reference: **Memo CP-D/542 (item 1 to be withdrawn)
Memo CP-D/599**

In the article by R.W.Peelle et al., PR/C,3,373,1971 (being compiled in entry 14201 to be submitted on Prelim 1376), two quantities for prompt fission gammas are measured:

- 1) Energy spectrum of prompt fission gammas in units photons/fission/MeV
- 2) Partial yields of prompt fission gammas in units photons/fission.
(Partial due to gamma energy range)

Proposed coding:

- 1)(N,F)0-G-0,PR,FY/DE with units PD/FIS/MEV
- 2)(N,F)0-G-0,PR/PAR,FY with units PRD/FIS

Note that for reaction 2) another code (PR/PAR,MLT,G) was used in one entry (14195) according to our earlier memo CP-D/542.

However, in an effort to streamline the coding of fission quantities, it was decided later in memo CP-D/599, to code all yields of fission particles with SF6 = FY **except for SF6 = NU for fission neutrons.**

To harmonise the coding of gamma yields with this concept, we therefore withdraw item 1 of memo CP-D/542 and propose the following dictionary additions:

Addition to dictionary 25 (Data Units)

PD/FIS/MEV FYDE product per fission per MeV

Additions to dictionary 236 (Quantities)

PR, FY/DE	FYE FYDE	Energy spectrum of prompt fission particles
PR/PAR, FY	FY FY	Partial yield of prompt fission particles

Make obsolete:

PR/PAR,MLT,G

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