**Nuclear Data Section**

**International Atomic Energy Agency**

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**Memo CP-D/1111**

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**To:** Distribution

**From:** V. Devi, N. Otsuka

**Subject: Revision of LEXFOR “Partial reactions ” (NRDC 2023 A16)**

We concluded in the NRDC 2023 meeting that

“The coding rules of REACTION SF4-SF7 for the cascade gammas not following quasi-metastable state production (,PAR/L-,DA,G) and for the cascade gammas following quasi-metastable state production (-L,PAR,DA,DG) proposed in CP-D/1057 (Rev.) = WP2023-26 were approved.”

We propose addition of the following paragraph in LEXFOR “Partial reactions”:

**Gamma production following quasi-metastable state production**

When the reaction leaves a reaction product above a quasi-metastable state, and the product is de-excided by a gamma transition between two levels below the quasi-metastable state, the gamma emission can be classified into two categories:

1. Cascade gammas not following quasi-metastable state (“prompt” component):

**REACTION Coding:** PAR/L- in SF5 and G in SF7

***Example:***

REACTION (82-PB-0(N,X)82-PB-206,PAR/L-,DA,G)

2. Cascade gammas not following quasi-metastable state (“delay” component):

**REACTION Coding:** A nuclide code with -L in SF4 and DG in SF7

***Example:***

REACTION (82-PB-0(N,X)82-PB-206-L,PAR,DA,DG)

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