Revision of LEXFOR "Partial reactions " (NRDC 2023 A16)

(V. Devi, N. Otsuka, 2024-05-13, Memo CP-D/1111(Rev.))

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":

<u>Gamma production following quasi-metastable state production</u>

When the reaction leaves a reaction product above a quasi-metastable state, and the product is de-excited 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 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)
```