

1985-08-23

To: Distribution

From: H.D. Lemmel *Lemmel*

Subject: 1. Reply to Memo CP-C/143 on Decay Properties
2. Reply to Memo CP-C/-144 on Gamma Spectra

Re CP-C/143 on Decay Properties

We are happy with the coding of delayed-neutron emission probabilities as approved at the 1984 meeting.

The additional proposal on a new BIB keyword DECAY-PROP may be worth to be discussed, but we would request specific examples because we did not encounter the need for such a keyword.

As the NDS coding of half-lives in EXFOR is referred to, I would like to give an example. When the half-life is not a parameter of the cross-section (which is to be coded under DECAY-DATA) but when it is the main goal of the experiment, we coded it, in same trial entries as

REACTION (94-PU-239(O,A)92-U-235,,HL)
Or (94-PU-239(O,F),,HL)

with experimental details and error analysis given in the normal way. In fact, the storing of the experimental and error analysis information is the obvious beauty of compiling such data in EXFOR.

Clearance: J.J. Schmidt *J.J. Schmidt*

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We did not have the manpower of continuing this project of which we have only some sample entries. When the experimental Pu-239 half-life values were discrepant and remeasured, it was helpful to have these experiments in EXFOR, because it acts as a standard for important cross-sections.

At the moment we do not wish to propose the above REACTION codes for half-lives in EXFOR, but we would welcome it if one of the other centers has an interest to compile such data.

Re CP-C/144, the proposed Lexfor-entry on gamma-spectra

There are some inconsistencies in the proposal

Under 1., add:

"The gamma-ray energies are discrete values coded under the data heading 'E'"

Under 2., change:

"The gamma-ray energy is a continuous variable coded under the data heading 'E'".

Item 3., cancel as it seems that this does not really belong to this Lexfor entry on gamma-spectra.

The sentence on relative data would apply to items 1. and 2.