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Memo CP-M/25

DATE: March 02, 2010
TO: Distribution
FROM: V.Varlamov
SUBJECT: ENTRY L0091 correction.

Dear colleagues,

I would like to propose for your attention my correction of ENTRY L0091 in accordance with my previous comments (Memo CP-M/23 from October 01, 2007):

Unexpectedly I found out the important mistakes in content of ENTRY L0091 prepared at the NNDC (HISTORY (20050714C) DR L0091 1 14): in all SUBENTs "(G,X)0-NN-1" must be used instead of "(G,N)".

The reasons are the following:

1) the article is very old (J,CJP,35,470,1957) and in that time nobody has known about partial (G,N), (G,2N), (G,3N),...reactions, everybody have measured cross sections of only the total photoneutron reaction;

2) all actinides nuclei reaction cross sections presented in L0091 have absolute values about 1000 - 1500 mb which are of the same order as (G,X)0-NN reactions in modern experiments, for example in L0031, L0050, L0058;

3) modern (G,N) reaction cross sections have absolute values about 300 - 400 mb.

This problem was successfully discussed on several NRDC Meetings.

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