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**Information**

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Memo CP-B/26

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- Subjects: 1) Code A (Isotopic Abundance) in Dict. 34  
(proposed in CP-C/43)  
2) Dictionary Addition

1. Code A (Times Isotopic Abundance) in Dict. 34

We appreciate very much the proposal of a code to indicate whether in cases, where natural targets have been used, a correction for the abundance of the specified target-isotope has been applied or not. Until now we are using the code FCT to indicate that this correction was not applied, which has, however, the disadvantage that a free text explanation is necessary, though this special use of the code FCT is the only one, we have encountered up to now.

In our opinion, however, there should be given an explanation in LEXFOR, for which cases the new code applies. For ICPND we see only the case of measuring an unambiguous reaction path using a natural multiisotopic target. It should, however, be pointed out in LEXFOR that the code A is only valid for targets with natural isotopic composition. In cases of targets enriched in one of the isotopes the former code FCT with the obligatory free text explanation must be used to indicate a missing correction for isotopic abundances.

From the dictionary expansions proposed in CP-C/43 it becomes not completely clear, whether the code A should be given with corrected or uncorrected cross-sections. In our opinion the latter one should be the case, since in general a cross-section coded under REACTION refers always to 100 % of the target nuclide coded in SF1. Possibly, also a modified expansion in the dictionaries, like: "(Cross Section) not Corrected for 100 Percent Abundance of Target

Isotope"

could clarify the usage of this highly desirable code.

Furthermore, we would like to propose an additional code - in analogy to the codes M+, (M) in dict. 31 - to indicate that a correction for the isotopic abundance is not obvious from the original paper (such cases are unfortunately relatively frequent !):

(A) Unclear, whether or not Corrections for the Isotopic Abundance are Applied. A respective addition should be made to dict. 36 for (SIG,,(A)).

2. Proposed Addition to Dict. 3.

In an old publication (1956) we have encountered the laboratory:

California Research and Development Company  
Livermore, Calif.

Since we do not know, whether this institution is covered by one of the present lab-codes, we propose the code IUSACRD to be added to Dict. 3 but ask NNDC for correction if one of the other lab-codes or a more recent lab-name applies.

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