

DAT/324-0

MEMO CP-C/50

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From: V. McLane *om* Brookhaven Nat. Lab.

Subject: Proposed LEXFOR entries on Target Nucleus

Attached is a proposed LEXFOR entry on Target Nucleus.

Sol Pearlstein
Sol Pearlstein

- lh
Distribution:
- H. Behrens
 - F.E. Chukreev
 - G. Dearnaley
 - V. Manokhin
 - A. Marcinkowski
 - H. Munzel
 - S. Pearlstein
 - ~~S. Schmidt~~
 - H. Tanaka
 - N. Tubbs

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 INFORMATION 5384
 Schmidt + cml

- cc:
- P.M. Attree
 - G. Lammer
 - H.D. Lemmel
 - H. Marin-Guzman
 - K. Okamoto
 - O. Schwerer
 - P.M. Smith 027360

LEXFOR

Target Nucleus

TARGET

The target nucleus to be coded is the one to which the data refer; this is not necessarily the same as the actual material which was irradiated in the experiment.

If an isotopic mixture or a chemical compound was used as the experimental target, the data may nevertheless, be given for one isotope, and that isotope should be coded.

If a reaction can occur, by energetic reasons, for only one of the isotopes in the irradiated target, preferably that isotope should be coded as the target nucleus.

In these cases, compilers must take care that, if corrections for isotopic abundance have not been applied, one of the following modifiers is given with the quantity code:

- A - for a natural isotopic mixture
- (A) - for a natural isotopic mixture, where it is not clear whether the data were corrected for abundance
- FCT - for an enriched target. (In this case free text explanation is necessary).

In these cases the target description must be entered under the keyword SAMPLE.

The neutron as target nucleus (e.g. for neutron-neutron interactions) is coded. 0-NN-1.

For elemental targets, see also Elements. A list of valid codes for target nuclei are given in Dictionary 27 by col. 13 flags (see page VII.15).

For compounds as targets, see also Compounds.

For coding rules see EXFOR VIII.2.