

BROOKHAVEN NATIONAL LABORATORY

MEMORANDUM

MEMO CP/C-143

DATE: July 1, 1985
TO: Distribution
FROM: V. McLane *VM*
SUBJECT: Decay Properties

The solution arrived at for coding delayed-neutron emission probabilities is still not adequate for handling the data measured since it would require a new subentry for each neutron-emitting nuclide. In light of this and also the fact that NDS has compiled half-lives in the EXFOR format, I think it is time to consider a new specification format for nuclear structure and decay data.

As a first order proposal, I suggest the addition of a new keyword, e.g., DECAY-PROP, coded as follows:

DECAY-PROP (nuclide, property)

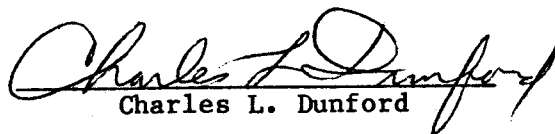
where nuclide is coded the same as for REACTION SF4
and property is coded similar to SF5-9.

This would allow the following usage:

DECAY-PROP (ELEM/MASS, ,PN)

This is meant only to be a preliminary proposal. We ask that the other centers write down their own proposals or thoughts on this proposal and suggest which properties would be useful to include.

We will follow later with a more complete proposal.


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