

MEMO CP - C/2

From: V. McLane May

Subject: First Charged Particle Exchange Tape from KACHAPAG

Use of Pointers (See entry B0001)

A pointer is assumed to refer to all subsequent BIB-records until either a new pointer or a new keyword is encountered in Columns 1-11. This implies that all pointer-independent information for each keyword must appear first. (See entry B0001, MØNITØR).

The current neutron EXFØR allows the use of pointers in the ISØ-QUANT only for resonance parameters and for multiple representations of the same data (e.g. relative and normalized cross section). Care should be taken in extending to other related ISØ-QUANT to make sure that related information is properly coded.

The use of pointers for ground and metastable state cross sections seems to have introduced some problems. Pointers are not meant to contain intrinsic information, but only link the information to which they are attached. While the use of specific pointers may be useful as an aide to the compiler, they have no special meaning in a transmission, i.e., S and R have no more significance than 1 or 2.

- 1) Compare B0001/3 and B0003/4 which are coded differently and neither of which uses the pointers correctly. Any piece of information without a pointer should apply to each individual reaction. Any piece of information with a pointer applies only to those reactions with the same pointer. The RAD-DET and DECAY DATA should be coded with pointers M and G as in B0003/4, but the pertinent information for S and R pointers must be repeated.
- 2) As in subentry B0002/4, pointers should not be used where there is only one reaction given.

Free Text

For the keywords describing the experiment (e.g. METHØD, DETECTØR) codes are not meant to replace free text and should be considered abstracts of the free text. (See below, under B0001, Detector).

Decay-Data

The information given should be the data assumed by the author in his calculation of the cross section. Where the compiler has assumed a number it should be clearly stated in free text which should include the source of the values assumed.

For example, in B0001/2, it is not clear where the information on Zr^{99m} came from.

Monitor Reactions

It is not clear why some monitor reaction values are given in coded form and others not, as for example in B0001/2, where one monitor reaction is coded and the other not.

Modifiers M+, M-, (M)

These should be coded in the branch field rather than the modifier field, although they are in the modifier dictionary. The new dictionaries proposed would clarify this for compilers.

SUBENT record - what is the code right-adjusted to Column 66.

ANALYSIS - Area analysis was meant for use with resonance parameters. For most cross sections the keyword analysis is not used. (This appears in many entries, e.g., B0001 and B0002).

Data-type - why is the data type in some (but not all) cases EXP/THEØ? Explanation should be given. (This appears in many entries, e.g., B0001 and B0002).


B0001

Detector - positron detector is in coincidence mode, gamma detector is not. Free text should explain both detector systems.

Isomeric Sums - Presumably these were added by the compiler. An entry made under 'STATUS' that the data are dependent and the origin given.

B0002

Energy - Incident energy and method of calculating energy in foils should be given in free text under either FACILITY or INC-SPECT, and under METHOD, respectively.



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