Brookhaven Nal. Lab.

MEMO CP-C/28

DAT 324-0

Date: January 6, 1978

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From: V. McLane

Subject: Multiple Monitors

Reference: Memos CP-D/44, CP-B/18

Since we have begun coding in the REACTION Formalism, we have encountered several cases where there are more than one entry under monitor for data which most easily coded using the Multiple Reaction Formalism. There are many measurements in the United States presently being reported as ratio measurements (A/B). These are then reduced to absolute values of one, e.g., A using the other, e.g., B as a standard. These are most efficiently coded in the same subentry. Often, however, only the shape of A is measured relative to B and the absolute value of A is obtained by normalizing the data to a given value of A at one energy (e.g. thermal). These standards are given and are both useful to code. These data are important and, therefore, we need some way to handle them by machine.

There is also a case in the KACHAPAG transmission tape B004 where they were forced into an illegal use of pointers to handle a case of multiple monitors (B0025).

We resubmit our proposal to add an optional first field to MONITOR and MONIT-REF. Since we already have data headings as optional entries under ERR-ANALYS and an optional first field for DECAY-DATA and RAD-DET, it does not seem an unreasonable expansion.

Alternately, we propose that the sequence of codes given under MONITOR and MONIT-REF will have to be the same as the order of values given in the data table with a monitor given in SAN=1 considered to precede monitors given in the other subentries and a monitor value given in COMMON considered to precede a monitor value given in DATA. This solution seems prone to errors and confusing to users. Therefore, we prefer the first.

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