

MEMO CP-C/1

From: V. McLane May, C. Dunford
Subject: CPND Dictionaries
Reference: CP-B/1 also known as KACHAPAG Information #1
Memo 4C-3/160

We believe that EXFØR dictionaries 10-14 should be left unmodified, and that new dictionaries be added which correspond to usage in specific fields for the keyword REACTION. We believe that this procedure will ease the adoption of the keyword REACTION in the neutron EXFØR. We also believe that the assignments to the various dictionaries were not logical. We propose the following new dictionaries which could easily be expanded to handle neutron data.

Dictionary 15: (Data type)

EXP
THEØ
EVAL
RECØM

Dictionary 26: ((Processes), other than those specified by a combination of particles).

TØT
NØN
ABS
EL*
INL

* If (p,p) is taken to mean total scattering.

Dictionary 27: Branch

PAR
PR
DL
CN
DI
M+
M-
(M)
BIN
TER
IND
CUM
(CUM)

Dictionary 28: (Quantity)

**
EM
SIG
TTY
YLD**

** Have combined GEM, PEM, AEM, TEM into single emission quantity EM and have combined FY and PY into single quantity YLD. Remainder of reaction code should be sufficient to distinguish these.

Dictionary 29: Modifiers

RAW
REL
FCT
AV

Dictionaries 16-23

The introduction of six character codes introduces complications into all our processing codes. We do not see the need to expand to six characters, since the limit of intelligible 5-character codes is not anywhere near being reached.

The purpose of the codes is to be machine identifiable. The use of easily recognizable codes is meant to help the compiler, not the user.

Dictionary 24: (Data-heading Keywords)

There is presently an EXFOR proposal to drop the keywords RATIO (and associated keywords). This was needed in EXFOR for use with the ISO-QUANT separator ',,' which allowed a ratio and its normalized cross section to be coded in the same entry. With the addition of pointers, there is no longer a need for distinguishing between DATA and RATIO. This would also pertain to the keyword SUM.



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