Memo 4C-3/133

To: Distribution 5 August 1975*

From: K. Okamoto + H.D. Lemmel

Subject: Application of Pointer

In the attachment we present an example of a data set compiled in two alternative formats, concerning the paper by S.P. Dange et al., Phys.Rev. C 116(1975)1251

In this data set, two different results for the same ISO-QUANT have been obtained from the same raw data (compiled under MISC) using two different formulae for the ANALYSIS.

Conventionally, these data would be compiled in two different subentries (see SECOND Solution), however this would actually be a duplication and a compilation in one single subentry is definitely preferable. This is done in the FIRST Solution. It leads to the consequence that there are

* two DATA columns with pointers 1 and 2
  but only one ISO-QUANT, the pointers referring
  to two different entries under ANALYSIS.

We believe that this is implicitly permitted in the Manual, but our programmers would prefer to have this case explicitly mentioned. A proposed Manual update is attached.

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FIRST Solution

```
ISØ-QUANT          (93-NP-237,NF,KE,SPA,FF)
MISC-COL           (MISC 1)   RECØIL RANGE, MILLI-GRAM/CM2
                   (MISC 2)   ERRØR ØF RECØIL RANGE, MILLI-GRAM/CM2

ANALYSIS       1   RANGE - ENERGY RELATIØN BY ALEXANDER-GAZDIK ...
               2   RANGE - ENERGY RELATIØN BY PRAKASH, THESIS, ...

DATA
MASS        MISC 1      MISC 2          DATA    1       DATA    2
NØ-DIM      SEE TEXT    SEE TEXT        MEV             MEV
 91.        4.10        0.02            172.3           167.3
 97.        4.04        0.08            181.6           182.6
 99.        4.03        0.06            185.7           188.0
 etc.
```

SECOND Solution

```
SUBENTRY    30307002
BIB
ISØ-QUANT   (93-NP-237,NF,KE,SPA,FF)
MISC-CØL    (MISC 1)   ....
            (MISC 2)   ....
ANALYSIS    RANGE-ENERGY RELATIØN BY ALEXANDER-GAZDIK ,....
.........
DATA
MASS        MISC 1      MISC 2      DATA
NØ-DIM      SEE TEXT    SEE TEXT    MEV
91.         4.10        0.02        172.3
......
SUBENTRY    30307003
BIB
ISØ-QUANT   (93-NP-237,NF,KE,SPA,FF)
MISC-CØL    (MISC 1)   ....
            (MISC 2)   ....
ANALYSIS    RANGE-ENERGY RELATIØN BY PRAKASH, THESIS,...
.........
DATA
MASS        MISC 1      MISC 2      DATA
NØ-DIM      SEE TEXT    SEE TEXT    MEV
91          4.10        0.02        167.3
......
etc.
```

(5) Pointers

Different pieces of EXFOR information can be linked together by pointers. These are numeric or alphabetic characters (1,2,...9,A,B,...Z) placed in the eleventh column of information-identifier keyword fields in the COMMON or DATA section. Pointers can link, for example,

- one of several iso-quants with its DATA column;
- one of several iso-quants with a specific piece of information in the BIB section (e.g. ANALYSIS), and/or with a value in the COMMON section, and/or with a column in the DATA section;
- one of several pieces of information in the BIB section (e.g. ANALYSIS) with one of several DATA columns. If the DATA columns, in such a case, refer all to the same ISO-QUANT, no pointer is given to the ISO-QUANT;
- a value in the COMMON section with any column in the DATA section; etc.

In general, a pointer is valid for one subentry only; except a pointer used in the first subentry which must have a unique meaning throughout the entire entry.

[See Implementation Schedule p. VI.8]

An example of several bibliographic entries illustrating the use of pointers follows.