

Memo 4C-3/166

To: Distribution 1976-05-13

From: K. Okamoto, H. Lemmel, P.M. Attree
KO. HDL PMA

Reference: Memo 4C-2/72 of 76-04-23 and the Exfor check listing submitted to the 12th 4C-Meeting

Subject: Reply to above memo, and proposed revision of EXFOR Manual

The corrections suggested are being done. When retransmitting the entries concerned more important corrections will come sooner than less important ones.

We do not agree with some of the error indications in Memo 4C-2/72:

1. TRANS 3017, entry 30299: there is no rule prescribing that sub-entry 001 must contain a reference, nor would such a rule be feasible (though most entries do have a reference in subentry 001).
2. TRANS 3018/19, entries 30303, 30304, 30309: In these entries E-LVL-INI and E-LVL-FIN cannot be considered as independent variables. They are additional information assigned to some of the capture gamma lines entered under DATA. The independent variables are EN and E.

We therefore propose a change on page VIII.21b of the Manual where it should say in the table under "Family": "E, except E-LVL-INI and E-LVL-FIN". Correspondingly, in dictionary 24 the flag "E" is to be removed from the entries E-LVL-INI and E-LVL-FIN. (If someone has an interest in assigning these two keywords another flag out of "Class 2" as defined on Manual-page VIII.21b, please let us know. Our interest is only in flagging proper independent variables).

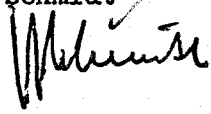
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We do not agree with some of the error indications on the check listing distributed at the 12th 4-Centres Meeting:

3. TRANS-3017, entries 30289, 30295: The 'book-keeping' was correct on the transmission tapes. Refer EXFOR Manual page III.8 which specifies that N2 in the COMMON record and N1 in the ENDCOMMON record should contain the number of records in the common data section. It is only in the DATA Section that N2 in the DATA record specifies the number of lines in the table. (This inconsistency seems to be regrettable but not worth the effort to change it.) We propose a clarification for the EXFOR Manual page III.9. (18.):

"N2 - Number of lines in the table, excluding the lines with headings and units. Note that if N1 > 6, a line will consist of more than one record."
4. TRANS-3020, entry 30324: With the keyword RESID-NUC a code is not compulsory. Refer EXFOR Dictionary 2, and Manual page VIII.3 .
5. A number of keywords, e.g. SAMPLE, have no codes associated with them. In such cases ^{we}do not consider a left-parenthesis in col. 12 to be a serious error. The entries will not be corrected, but the compilers have been instructed to avoid '(' in col. 12 in future.
6. In dictionary 6 of report codes we cannot do anything about those report identifications which contain more than one digital subfield. Where feasible, we enter in the dictionary relevant warnings in free text. Only when the first digital subfield clearly denotes a sub-series (e.g. TU-05 = Department 5 of Technical University) of a larger report series, we shall include it in the dictionary.

To clarify, we suggest to add on the bottom of page VIII.8 of the Manual:

"The report "number" field may have any contents, for example

3058-39
4648-MS
66-12-9
630/IX-A/PR etc.

but must not contain a comma. Compilers should try to keep a uniform style within a series and to omit insignificant symbols such as distribution codes if these are not needed to identify a report."

7. Additions to Dictionary 14 (re page 5 of 4C-2/72)

- a. In entry 10372, we believe that the quantity EL,POL,,D is wrong. It seems to us that the data given are, in both sub-entries, the polarization of neutrons by the D(n,n)D process, although in one subentry neutrons have been detected and deuterons in the other. Please check and confirm how you decide.
- b. In entries 40313 and 40315, the quantity should probably be ING,SPC rather than ING,SPC/DA, since the gamma radiation should be isotropic. The angle given in COMMON is probably not an independent variable of the data but rather refers to the geometry of the method which should be entered in free text. The units GAM/100N under DATA seem to indicate that it is not angular differential data.
- c. For entry 10223, and the quantity NF,DA,FCT see memo 4C-3/151 of 1975-12-08. This entry has been retransmitted in the meantime and seems to be correct now.
- d. For the quantity NG/STF we requested further information from NNCSC, preferably together with a proposed Lexfor entry.
- e. In entry 10548 the quantity NT,ASY/DA is, in principle, acceptable. However, such quantities should not be introduced without an accompanying Lexfor entry defining exactly the meaning of the quantity code. We remember that NNCSC had, long ago, an action to draft such a Lexfor entry. NDS had submitted in memo 4C-3/70 of 1973-01-05 a Lexfor entry on EL,ASY/DA, which was never included in Lexfor. We suggest that the NDS proposal be entered in Lexfor with an extension to cover also other reactions such as NT.
- f. Entry 40170 seems to be erroneous and the quantity code TOT, RI certainly not correct. Are the data rather NG/PCS as function of EN-RES? Please check and confirm.
- g. We have also doubts in the quantity code TOT/WID,RED in entry 10450. If it were correct it would require an accompanying Lexfor entry.

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Memo

To: J.J. Schmidt 17 April 1975

From: K. Okamoto *Kaidi*

Subject: Regional Nuclear Data Centres
(You asked me for my comments)

Concerning discussions on three future regional nuclear data centres (NDS Memo no. 279, p.3, item 10), further careful consideration is highly desirable before setting them up. The existing 4 core centres for data compilation have direct responsibilities either to the experimentalists (data producers) to obtain their results or to evaluators and reactor engineers (data users) to supply that information. Any data whatever those 4 centres store are available to the users on their requests at any time. However, the stored data today may be corrected by the experimentalist tomorrow. Data is not a dead thing! And it is understandable that the experimentalists dare not see their old wrong data any more and cannot stand to think that these data are still kept in storage somewhere. We are glad to supply always "fresh" information to our users. Additionally we, the 4 centres, could trace who did the request and when. It might be more clear if we take one example, say preliminary results or results not yet published. Preliminary results are very interesting for the evaluator and in fact are often more useful and more precious information than those published and obtainable by anyone. One of the most important roles of an evaluator is to search for such new and yet unpublished data, and therefore we are anxious to have them in our file. Experimentalists are usually hesitant to release raw data, while they are very insistent on their ownership rights especially when the data do not confirm predictions or expectations, i.e. appear to point to yet undiscovered phenomena.

It is desirable that the 4 centres become the storage centre for more such data, and their roles. They should not criticize the results but rather help the authors attain their final goal. Adopting this attitude, and making it clear to data producers, we should be able to obtain many preliminary data for inclusion in our files. We must, however, be very careful with requests from users for such preliminary data, as we are now. Careless treatment in other regional storage would sabotage any goodwill obtained through our own careful effort. Once we fail the confidence of data producers, we hardly get it back again!

It is understandable that any research centre is eager to get all information even if it is not urgently needed by them. However, for the above mentioned reasons, I myself am quite reluctant to regard regional data storage any longer with no responsibilities to data producers. If these candidates of future regional centres could fulfil their duty to cover some region compiling the experimental data there, then the situation to discuss this matter might be different and they could receive the whole necessary information from ^{the} present 4 centers as well.

This is my opinion on this matter as a data compiler.