

4C-3/141
1975-9-30

Memo 4C-3/141

To: Distribution
From: P.M. Attree + H.D. Lemmel
Subject: Repetition of column headings
Reference: 4C-2/64 item 1)

30 September 1975

The rules in the Exfor Manual about possible repetitions of column headings are not precise enough for the purposes of a check program. Along with action 25 of the 1975 4C-Meeting (... to make the EXFOR Manual more compatible with checking program specifications) we propose a revision of page VIII.21 as attached.

ERRATA in 4C-3/139

The Lexfor update dated 6 June 1975 arrived here on 15 September, of course, not on 15 October.

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Dictionary 24. Data-Heading Keywords

These keywords are used in the COMMON and DATA sections, as column headings for defining the contents of these columns.

The data-heading keywords include items such as:

independent variables (energy, angle, etc.)
 parameters (temperature, spin, etc.)
 coefficient numbers
 errors, resolution, etc.
 centre-of-mass indicator, compare Lexfor "Center-of-Mass System"

All possible

The data-heading keywords ~~may be composed of certain modifiers, which are separated by hyphens.~~ *← sentence unclear and not necessary* All possible combinations are given in Dictionary 24. The length of the keywords is restricted to 10 characters.

Repetition of column-headings

An actual column-heading may consist of a data-heading keyword (see Dict.24) and, perhaps, a pointer (see page VI.3).

Within the three sections COMMON section of subentry nnn ≠ 001,
 DATA section of subentry nnn ≠ 001,
 COMMON section of subentry ool of same entry,

no column-heading (= data-heading keyword plus pointer) may be repeated except for the following cases. (Any further case of repeated column-headings which the centers may agree to accept, must be described here.)

Any columns with identical column-heading must be adjacent and may appear within only one of the three sections mentioned above.

- 1.) Two or more unresolved energy levels are entered by repeating the data-heading keyword E-LVL as follows:

E-LVL	E-LVL	E-LVL
MEV	MEV	MEV
0.107	0.125	0.177

- 2.) An angle given in degrees and minutes must be entered in two separate columns with the data-heading ANG repeated as follows:

ANG	ANG
ADEG	AMIN
90.	47.

Similarly, any other data-heading keyword starting with ANG... may be repeated in the same way.

- 3.) If a column is to contain half-life values in different units such as SEC, D, YR, these units need not be converted into a common unit. Instead the data-heading keyword, e.g. HL, may be repeated and a separate column for each unit may be entered as follows:

HL	HL	HL
SEC	D	YR
	15.	28.3
	100.3	
4.8		

Similarly, any other data-heading keyword starting with HL... may be repeated in the same way. This case cannot occur in a COMMON section.

4.) If two or more flags defined under the BIB keyword FLAG apply to the same line of the data table, a column-heading with the data-heading keyword FLAG may be repeated as follows:

FLAG	FLAG
NO-DIM	NO-DIM
1.	
3.	
2.	3.
1.	2.
	etc.

The data-heading keyword FLAG cannot occur in a COMMON section.

end of page VIII.21

The previous note on fitting coefficients on the bottom of this page could be dropped since this note is a partial repetition of the more comprehensive Lexfor entry on Center-of-Mass System.