Memo 4C-3/162

To:

Distribution

7 April 1976

From:

H.D. Lemmel

Subject:

Differential cross-section relative to its value at a given angle

Reference: Lexfor, Example 11

In Exfor-Entry 30327. to be transmitted, we had the case that a differential cross-section relative to its value at a given angle, was tabulated at several neutron energies. We suggest that the solution we found be entered in Lexfor as an extension of Example 11 which anyway needed a minor correction due to a superseded STANDARD code. The proposed Lexfor page is attached.

Attachment

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A differential cross-section relative to its value at a given angle,

e.g.
$$\frac{\frac{d\sigma(n,p)}{d\Omega}(E_n; \emptyset)}{\frac{d\sigma(n,p)}{d\Omega}(E_n; 90^{\circ})}$$

is entered in the following way:

BIB

IS ϕ -QUANT (8- ϕ -16, NP, DA, REL)

STANDARD RELATIVE TO VALUE AT 90. DEGREES

ENDBIB COMMON

EN

MEV

2.

ENDCØMMØN

DATA

ANG DATA DATA-ERR ADEG ARB-UNITS PER-CENT 30. 2.2 5. 60. 1.4 3. 90. 1. 120. 0.8 2.

or, if similar data are given at several energy values:

COMMON ANG 1ANG 2 ADEG ADEG 0. 90. ENDCØMMØN DATA EN DATA 1DATA-ERR DATA MEV ARB-UNITS PER-CENT ARB-UNITS 2.4 1.8 5. l. 2.6 1.74 5. 1. 2.8 1.73 4.5 1. • • •

Note: The column DATA 2, although containing throughout only the value 1., serves the purpose to define, in computer-intelligible way, the meaning of the values given in the column DATA 1.