

DAI/324-0

Memo 4C-4/I9

From: V. Bychkov

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Subject: Energy spectra of fission-fragments. At present time we have data on the yields and kinetic energies of fission fragments, measured by Dr. Kuz'minov et al (FEI). There are some difficulties in compiling these data into EXFOR.

For the fission-fragments energy spectrum designation there is code NF, DE,, FF in dictionary I4, which corresponds to physical value $d\sigma_3/dE$ with dimension I/MEV. However, instead of this quantity sometimes one can measure either kinetic energy of fragments for present type of fission, $E_K(M)$, or kinetic energy averaged on all types of fission, \bar{E}_K (code NF, AKE,, FF in dic. I4),

where
$$\bar{E}_K = \frac{\sum_M E_K(M) Y(M)}{\sum_M Y(M)}$$

and Y(M) is the yield of fragment with given mass.

To code the value $E_K(M)$, we suggest the code KE (dic. II) and NF, KE,, FF with dimension MEV (Dic. I4). The corresponding subentry would be following:

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SUBENT

BIB

ISO-QUANT (Z-S-N, NF, KE,, FF)

COMMENT KINETIC ENERGY OF FRAGMENTS GIVEN

WITH RESPECT TO LIGHT FRAGMENT MASS

2.5.73
INFORMATION COPY
ONLY

- Allice
- Calamand
- Duford
- Lennel
- Lennley
- Shmichl
- NDS

Memo 4C-4/I9

ENDBIB

COMMON

EN

MEV

2.0

ENDCOMMON

DATA

MASS DATA

NO-DIM MEV

80. 148.86

81. 152.55

... ..

If these data are of interest for other centers we ask you to confirm our suggestion, otherwise we shall compile only data on fission-fragments yields.

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