

MEMO 4C-4/9

Subject: same remarks on fission products description  
in EXFOR.

From V. Cherkasov, L. Tarasko, V. Bychkov.

Date: May 8, 1970.

The charge and mass distributions are studied in  
some fission experiments. CJD supposes that it would  
be useful for description of such experiments to intro-  
duce the following codes:

a) in dictionary 11 "Function and other specifi-  
cation":

DZ - charge distribution;

DM - mass distribution;

b) in dictionary 12 "Miscellaneous modifiers":

APR - after prompt neutrons emission;

BPR- before prompt neutrons emission;

to note the character of fission products with respect  
to prompt neutrons emission. In according to this it  
is necessary to add in dictionary 24 "Data-Heading  
Keywords" the value codes "Z-VAL" and "M-VAL" (atomic  
units) for charge and mass assignment.

In gross decay curve measurements it is customary  
to use the exponential expansion to determine abundances  
and/or half life of separate groups. It is desirable to  
introduce in dictionary 24 "Data-Heading Keywords" codes  
"HALFL" and in dictionary 11 code "EXP" for assignment  
of half life and exponential expansion respectively.

Examples:

- 1) (92-U-235, NF/CS, DM, BPR, ~~BF~~) - mass distribution of fission fragments of U-235 before prompt neutrons emission.
- 2) (92-U-235, NU, ~~EXP~~, DL) - the extraction of delayed neutron groups from gross decay curve of U-235.

ISQ-QUANT (92-U-235, NU, EXP, DL, DN)  
COMMENT ABUNDANCES OF DN-GROUPS ARE GIVEN RELATIV  
TO FIRST GROUP WITH HALFL=55,65 SEC.

COMMON

EN

MEV

18.0

DATA

HALFL

SEC

55.65

24.40

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.

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Distribution: H. Liskien

J. Schmidt

S. Pearlstein

Clearance: V.I. Popov.

	DATA RATIO ARB. UNITS <del>NO DIM</del>	DATA RATIO-ERR as units <del>NO DIM</del>
	I	0.0
	2.89	0.10
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4C  
DAT/324-0

NOTE FROM CENTRAL REGISTRY

ATTACHED ENCLOSURE WAS RECEIVED WITHOUT COVERING NOTE.

FROM: Institute of Physics and Energetics  
Obninsk, USSR

ADDRESSED TO: Schmidt

DESPATCHED ON: 6.6.70

SUBJECT: Memo 4C-4/9

JUN 15 1970

ACTION

ROUTED TO:	
ACTION OFFICER:	Schmidt
INTERIM SIGNATURE:	
REPLY:	
ACTION COMPLETED:	
NO ACTION REQUIRED:	
ENCLOSURES:	
TO:	as above
DESCRIPTION:	Topic memo

- Schmidt  
- Corey  
- NDW

REGISTERED  
NO: 120