MEMO 4C-2/71

Subject : Proposed CINDA quantities NXN, FPB.
LDL coded with qualified nuclide.

References : CINDA Readers' Seminar (C.R.S.), CCDN, 1975.
Memo 4C-3/143 concerning NXN.

From : A. Schofield

It was proposed in action number 8 of the CINDA Readers' Seminar to initiate a Four Centre discussion on introducing CINDA quantities NXN, FPB, and unifying coding rules for LDL.

NXN : The reasons for grouping reactions N4N, N5N etc., under N3N were extensively analysed in Memo 4C-3/143. We will simply state here the preference given by the CINDA Readers to the use of NXN for X>2 with the reaction mentioned in this comment. This would imply the systematic changing of N3N to NXN in the file, which could easily be done at CCDN. There are at present 453 N3N entries in the CINDA file.

The following 2 items, concerning FPG and LDL, originate from a remark in the document presented by Dr A.T.D. Butland (C.R.S., Appendix 6, paragraph 7(j)).

FPB : The introduction of FPB (Fission Product Betas), to be used in conjunction with the fissioning nucleus would result in the addition of CINDA entries, with no further changes to existing ones. As a first step, existing entries for FPG would be scanned, and an entry added for FPB when information on betas is given in the comment (40 out of 540 FPG entries mention betas).

LDL : The question which is raised here is the adequacy of applying the present rule stating that the target nuclide should be coded. This rule has a meaning only when information on the density of levels results from a neutron measurement. In most cases, a neutron reaction is considered, and LDL qualifies the residual nucleus, not the target nucleus; nevertheless, the above-mentioned rule is usually still applied. A borderline case is illustrated by NP/A 127 289 - Table I : here, neutron- and non-neutron induced reactions are analysed, and if coding rules are applied strictly some entries should be made with target nuclei, others with residual nuclei. The target nucleus rule cannot be applied of course for theoretical papers such as YF 11 1028 where calculations are performed directly for nuclei characterised by N and Z. A strict application of the target nucleus rule entails the coding of the qualified nucleus or the analysed reaction in a non-retrievable field, which means that a request cannot be made for the LDL of a given nuclide.

However, unifying LDL information in CINDA will require considerable work, as there are at present 3,883 LDL entries in the file.

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4-C Memo

REGISTRY FILE No(s):	TELEX No: IN
DAT324-0	3409
	DATE:
ACTION: ATTREE	29 MAR 1976
DATE:	ACTION COMPLETED: / NO ACTION:

12645a atom a
cecodon 690920f

4

for the attention of mrs pamela attree, nds

Vermel Schmidt

cinda lab sort, status : book 1976 sent today . ccdn tape N
o. 002n
ref. institute and ref codes : have checked that everything not
n x4 dic has a definition in 1975 book. new are defined in
emo 4c-2n/70. exceptions are obvious distortions or
runctations :
ae-rft is rft
cnen-rt/eeee
cnen-rt/fi is rt/fi- as in file
pr-cm is pr-cn-
acb is ach (guessed)
sui is new usa for state univ. iowa.

regards,
anton

12645a atom a
cecodon 690920f

4-C Memo

REGISTRY File No(s):	TRANS No: out
DAT/324-0	3040
	DATE: 76-3-25
ACTION: Lemmel	
DATE:	ACTION COMPLETED: / TO ACTION:

cecodon 690920f
085 1041 ✠
12645a atom a

vienna 25 1041 =

9

luigi lesca
nea neutron data compilation
centre
gif-sur-yvette (france) =

3040 memo 4c-3/160. do you agree.
1. including in future dictionary-transmissions about six additional short dictionaries for use in cpnd exfor in particular for subfields under keyword reaction? this is different from muenzel's proposal who suggested adding some codes valid only for cpnd to dictionaries 10 to 12 which we prefer leaving separate from cpnd.
2. including in dictionaries 2 and 16 through 24 few additional codes for cpnd as proposed by muenzel?
3. permitting in dictionaries 16 through 23 codes longer than five characters?
please cablereply. please send estimated growth of cinda 76 compared to 75. needed for final cost calculations =

jjschmidt inatom +

cfm 3040 4c-3/160 1. cpnd cpnd 10 12 2.
2 16 24 3. 16 23 76 75 + rw +

cc. Attree
Lesser
Lorenz
JJschmidt
Okamoto
Khalil
Yaghmajian
N

✠
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