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CP-C/179

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DATE: January 23, 1989

TO: Distribution

FROM: V. McLane

SUBJECT: Dimension codes in Dictionary 25 and Dictionary 36

Since our checking code uses the dimension codes in Dictionary 25 and Dictionary 36 to check for legal units, it is important to use that:

1. each quantity given in Dictionary 36 has a dimension code

2. the dimension code in Dictionary 36 is equivalent to the matching code in Dictionary 24.

I have compiled a list of codes from Dictionary 25 and Dictionary 36 on TRANS 9057 for which no dimension code is given, and have added what I considered to be the proper dimension codes where they exist. I have invented one new code "B*V" for reaction rate.

The Dictionary 36 codes which I have left blank, are codes for which I have not found an entry in the data library. Kerma factor (KER) should be removed, since it doesn't exist in Dictionary 32. If there are no entries for the rest, they should also be removed. If there are entries, appropriate dimension codes should be added.

The Dictionary 25 dimension codes also include codes suggested in memo CP-C/178. The blank codes, with the exception of "SEE TEXT", may have been used for decay data which is not coded in EXFOR, and should probably be removed.

Charles L. Dunford

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ACTION
FEB - 7 1989

Dictionary 25

ARB-UNITS	ARBITRARY UNITS TO BE COMBINED	NO		3000002500011
CM3/SEC	FOR REACTION RATE (CS * VELOCITY)	B*V		3000002500071
DPS	DECAYS PER SEC			3000002500064
DPS/MUAHR	DECAYS PER SEC/MICRO-AMPERE-HOUR	TTY		3000002500065
GAM/PART	GAMMAS PER INCIDENT PARTICLE	TTT		3000002500133
GY*M-SQ	GRAY * SQUARE METERS			3000002500135
MCI/MUA	MILLI-CURIE/MICRO-AMPERE	TTT		3000002500066
MCI/MUAHR	MILLI-CURIE/MICRO-AMPERE-HOUR	TTY		3000002500068
MUCI/MUA	MICRO-CURIE/MICRO-AMPERE	TTT		3000002500067
MUCI/MUAHR	MICRO-CURIE/MICRO-AMPERE-HOUR	TTY		3000002500069
N/PART	NEUTRONS PER INCIDENT PARTICLE	TTT		3000002500130
NUC/PART	NUCLEI PER INCIDENT PARTICLE	TTT		3000002500009
PART/MUAHR	PARTICLES/MICRO-AMPERE-HOUR	TTT		3000002500070
PC/DECAY	PER-CENT PER DECAY			3000002500008
SEE TEXT	RARE UNITS WHICH ARE NOT CODED			3000002500014

Dictionary 36

,COR	NO	(ANGULAR CORRELATION)	3000003600393
,COR,A/FF	NO	(ALPHA / FRAGMENT ANGULAR CORRELATION)	3000003600744
,COR,A/HF	NO	(ALPHA / HEAVY FRAGMENT ANGULAR CORRELATION)	3000003600745
,COR,FF/FF	NO	(FRAGMENT/FRAGMENT ANGULAR CORRELATION)	3000003600746
,COR,N/FF	NO	(NEUTRON/FRAGMENT ANGULAR CORRELATION)	3000003600743
,COR,N/T/A	NO	(ANGULAR CORRELATION NEUTRONS/TRITONS/ALFAS)	3000003600394
,KER		(KERMA FACTOR)	3000003600250
,PHS,,VGT	A	.(VOGT RELATIVE PHASE)	3000003600896
,SGV	B*V	(REACTION RATE) SIGMA*VELOCITY, SPECTRUM-	3000003600239
IND,FY/DE		(INDEPENDENT FISS.FRAGMENT YIELD,	3000003600673
PAR,COR	NO	(PARTL.REACTION,ANG.CORRELATION)	3000003600474
PR,COR,N/N	NO	(ANGULAR CORRELATION OF PROMPT FISSION	3000003600650
PR,COR/DE,N/FF		(ANGLE-ENERGY CORRELATION OF PROMPT NEUTRONS	3000003600747
PR,DE,N,RTE		(E-SPECTRUM OF PROMPT FISS-NEUTS * ROOT(E))	3000003600654
TER,COR,A/FF	NO	(ALPHA / FRAGMENT ANGULAR CORRELATION	3000003600808
TER,COR,FF/FF	NO	(FRAGMENT/FRAGMENT ANGULAR CORRELATION	3000003600813
TER,COR,LCP/FF	NO	(ANGULAR CORRELATION OF LIGHT CHARGED	3000003600810

cc. De Moraes Cunha
Goulo
Lammec
Lemmel
Okamoto
Osorio
Schmidt
Schwerc
Seito
Wang Dahai