



BROOKHAVEN NATIONAL LABORATORY  
ASSOCIATED UNIVERSITIES, INC.

Upton, Long Island, New York 11973

National Nuclear Data Center  
Bldg. 197D

(516) 282-2901, 2902  
FTS 666

334 - F4 - 11.1  
032406

Memo CP-C/201

DATE: June 21, 1991  
TO: Distribution  
FROM: V. McLane *vm*  
SUBJECT: Particle Designator Codes in Dictionary 36

ACTON  
JUL - 1 1991  
*J. Schmitt*

I would like to suggest a modification to the proposal for the elimination of particle designator codes in Dictionary 36, proposed in Memo CP-C/200.

Since the following may be true:

- 1.) for some quantities it is not appropriate to have a particle designator field
- 2.) some quantities must always have a particle designator code
- 3.) for some codes the definition changes with the addition of the particle designator code

Therefore, instead of no entry for the particle designator field, I suggest we introduce one or more generic codes to be used in that field in Dictionary 36.

I propose the following:

- (dash) All codes from Dictionary 33 and those from Dictionary 27 which have a '3' or a 'Z' in column 15 would be legal as a substitution for this code.

\* Fission fragment code only, i.e., FF, LF, FF

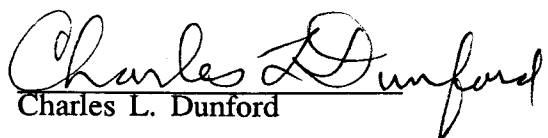
Since it was agreed that the dictionaries are to be a major topic at the next NRDC meeting, this may be a good time to make such a change.

cc. Arcilla                      Lemuel                      Schmitt  
      Ganesan                      Muir                        Schreier  
      Lammer                      Podolschenko              Kay Dahai

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Following are some examples for addition to Dictionary 36.

,AP,*	NO	Most probable mass of fission fragment specified
,COR,-/-	NO	Angular correlation particle 1/particle 2
,DA,-,LEG	DA	Legendre coeff. for fit to D/DA for particle spec.
,DA,-,LEG/RS	DA	Legendre coeff. for fit to $4\pi \cdot D/DA$ of particle spec.
,DA,-,4PI	B	Diff. cross section $D/DA \cdot 4\pi$ for particle spec.
,DA,-	DA	Diff. cross section $D/DA$ of particle specified
,DA/TYA,-	DA	Treiman-Yang diff.c/s $D/DA$ for plane defined by residual nucleus and outgoing particle specified
,DE,-/-	DE	Energy spectrum of particle1/particle2 pair
BIN,AP,*	NO	Most probable mass of fission fragment specified
PAR,DA,-/-	DA	Partial diff. c/s $D/DA$ of particle1/particle2 pair
PAR,MCO,-/-	DA	Partial linear momentum correlation of particle1/particle2 pair
PAR,SIG,-	B	Partial cross section for particle specified
PAR,SIG,-/-	B	Partial cross section for particle1/particle2 pair

  
Charles L. Dunford

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