NATIONAL NUCLEAR DATA CENTER
Bldg. 197D
Brookhaven National Laboratory
P. O. Box 5000
Upton, NY 11973-5000 U.S.A.

(*Internet*) "NNDC@BNL.GOV

Telephone: (516)344-2902
FAX: (516)344-2806

Memo CP-C/294 (Revision)

DATE: October 25, 2001
TO: Distribution
FROM: V. McLane
SUBJECT: Unit updates consensus (re: Memos CP-C/284, CP-C/286)

To summarize the remarks made to the proposal of Memo CP-C/286:

- Otto Schwerer prefers a combination of solutions 1 and 2, i.e., replacing specific reactions except for fission, but using only PRT instead of PRT and PRD. However, he can live with either solution.
- Felix Chukreev prefers using PRT and PRD, but also can live with either version.
  Comment by VM: Regarding the comment on using PART-DET, the particle detected is, in general, defined by the reaction; PART-DET is only obligatory where this is not the case. PART-DET ***is not tied to units***.
- Staca Maev is happy with either version.

I believe it is less confusing if we differentiate between particles and products, that is, SF3 and SF4. Therefore, so that we can begin using the codes immediately, I propose we go with the following modified version, with PRT used for all particles and PRD used for all products. We should discuss a more exact definition of product or particle at the NRDC meeting in May.

Attached is a listing of the codes to be used.

If there are no comments by in one month, I will assume this is agreed.

Distribution:

M. Chiba, Sapporo
F. E. Chukreev, CAJaD
S. Dunaeva, Sarov
O. Gritzay, KINR
K. Kato, JCPDG
M. Kellett, NEADB
V. N. Manokhin, CJD
S. Maev, CJD
O. Schwerer, NDS
S. Takács, ATOMKI
F. T. Tárkányi, ATOMKI
V. Varlamov, CDFE
Zhuang Youxiang, CNDC
NNDC File

Using both PRD and PRT, and replacing specific reactions except fission, we have the following codes. (I will add a discussion to LEXFOR for use in future additions).

PRT used for outgoing particle (in general reaction SF3, but may be defined in SF7, or in SF4 if SF3 is X).
PRD used for reaction product (in general, reaction SF4)
INC used for incident projectile (in general, reaction SF2)
REAC used for reaction with FIS used for fission (in general, reaction SF2-3)
PC for percent: used in the sense of products per 100 incident particles, or the probability that a given reaction will produce a particular particle (in %).

Code		Replaces
MB/PRT	millibarns/outgoing particle	new
P/IN/MEVSR	particles/inc.projectile/MeV/steradian	N/PT/MEVSR
PC/FIS	particles/100 fissions	as is
PC/FIS/MEV	particles/100 fissions/MeV	PC/FIS/MEV
PC/INC	particles/100 incident projectiles	GAM/100N
PC/REAC	particles/100 reactions	all other reactions besides fission
PRD/REAC	products/reaction	new
PRD/INC	products/inc.projectile	NUC/PART
PRD/MUAHR	products/microaAmpere/hour	PART/MUAHR
PRT/FIS	particles/fission	PART/FIS
PRT/REAC	particles/reaction	new
PRT/IN/MEV	particles/inc.projectile/MeV	N/PART/MEV
PRT/INC	particles/inc.projectile	GAM/PART and N/PART
PRT/INC/SR	particles/inc.projectile/steradian	G/PT/SR