Japan Charged-Particle Nuclear Reaction Data Group

Division of Physics, Graduate School of Science
Hokkaido University
060-0810 Sapporo, JAPAN

E-mail: nrdf@jcprg.org
Internet: http://www.jcprg.org/

Telephone +81(JPN)-11-706-2684
Facsimile +81(JPN)-11-706-4850

Memo CP-E/060 (Revised)

Date: December 8, 2004
To: Distribution
From: OTSUKA Naohiko
Subject: Addition to Dictionary ~~25~~ 34 (Modifiers) and Dictionary 36 (Quantities)

We propose the following quantity codes:

Dictionary ~~25~~ 34 (Modifiers)

IPE	integrated over partial energy range

Dictionary 36 (Quantities)

,PY/DA/DE,,TT/IPE	YLD	Differential product yield for thick target yield with respect to angle and energy of out going particle, integrated over partial energy range
,PY/DE,,TT/IPE	1/E	Differential product yield for thick target yield with respect to energy of out going particle, integrated over partial energy range

Quantity	Reaction Type	Dimension	Reference	Subentry
,PY/DA/DE,,TT/IPE	PY2	YLD	S. Yonai *et al*., Nucl. Instrum.Meth., **A515**(2003)733	E1858.009
,PY/DE,,TT/IPE	PYE	1/E		E1858.010

Note that:

- In dictionary entry, "TT/" and "for thick target yield" may be omitted, because "TT" is approved as a general quantity modifier in the 2004 NRDC meeting.

- Then, if we keep the rule, "General quantity modifiers should trail other modifiers", "TT/IPE" in SF8 must be "IPE/TT". However I use "TT/IPE" in E1858 for the time being to keep consistency with other entries.

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Sample of coded entry (E1858.009)

S. Yonai *et al*., Nucl. Instrum.Meth., **A515**(2003)733 Fig.11

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SUBENT        E1858009   20041122                                  E185800900001
BIB                 6         14                                  E185800900002
REACTION   (26-FE-0(P,X)0-NN-1,,PY/DA/DE,,TT/IPE)                  E185800900003
EN-SEC     ANG is polar angle between beam and neutron in          E185800900004
           laboratory system                                       E185800900005
           (E,N) Lower limit energy to obtain double differential E185800900006
                 multiplicity integrated over neutron energy       E185800900007
ANALYSIS   (INTED) Integration for energy range above 5 MeV        E185800900008
ERR-ANALYS (ERR-S) Statistical error                               E185800900009
ADD-RES    (COMP) Intranuclear cascade model (MCNPX                E185800900010
                  [L.S.Waters(Ed.) MCNPX User's Manual Version    E185800900011
                  2.4.0, LA-CP-02-408, LANL, 2002] and NMTC/JAM   E185800900012
                  [K.Niita et al., Nucl. Instr. Meth.             E185800900013
                  B184(2001)406].)                                E185800900014
STATUS     (TABLE) Data (Fig. 11, p742 in reference) received by  E185800900015
                   e-mail from S.Yonai (2003.12.8)                E185800900016
ENDBIB              14          0                                  E185800900017
COMMON               1          3                                  E185800900018
E-MIN                                                             E185800900019
MEV                                                               E185800900020
 5.                                                               E185800900021
ENDCOMMON            3          0                                  E185800900022
DATA                 3          7                                  E185800900023
ANG        DATA       ERR-S                                       E185800900024
ADEG       PRD/INC/SR PRD/INC/SR                                   E185800900025
 0.          7.640E-02  8.340E-05                                 E185800900026
 7.5         6.120E-02  6.690E-05                                 E185800900027
 15.         5.230E-02  6.210E-05                                 E185800900028
 30.         4.530E-02  7.960E-05                                 E185800900029
 60.         1.880E-02  3.090E-05                                 E185800900030
 90.         1.000E-02  3.560E-05                                 E185800900031
 110.        7.340E-03  3.160E-05                                 E185800900032
ENDDATA              9          0                                  E185800900033
ENDSUBENT           32          0                                  E185800999999
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