

Japan Charged-Particle Nuclear Reaction Data Group

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Memo CP-E/023

Date: June 9, 2003
To: Distribution
From: OTUKA Naohiko and KATŌ Kiyoshi
Subject: Dictionary 27 (Nuclides) and secondary linear momentum

1. Radon isotope which alpha decay is measured

We are compiling two experiments of fusion-evaporation residue measurements at JAERI (S.Mitsuoka *et al.*, Phys. Rev. C65 (2002) 054608 and K.Satou *et al.*, Phys. Rev. C65 (2002) 054602). In these experiments, alpha decay of ^{206}Rn was observed. We propose to add Flag 3 for ^{206}Rn .

Dictionary 27 (Nuclides)

86-RN-206 Flag 3 at column 15

2. Secondary Linear Momentum and parameter DP

Now data heading belonging to Secondary Linear Momentum (family L, e.g. MOM-SEC) can be used when parameter (SF6) contains the linear momentum correlation MCO (EXFOR System Manual (April, 2001) 7.10). We propose that the parameter DP (differential with linear momentum of out going particles) also allows the use of family L.

(Now CHEX often gives error message like

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** Illegal independent variable                        SEC.ENERGY
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when DP is connected with family L).

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Sample of coded entry (E1779.002):

R. Kanungo *et al.*, Phys. Rev. Lett. **88** (2002) 142502 Fig.2-a

SUBENT	E1779002	20030606	E177900200001	
BIB	4	7	E177900200002	
REACTION	(6-C-0(8-O-23,X)8-O-22,LP,DP,RSD,REL)		E177900200003	
	DATA: count number		E177900200004	
PART-DET	(8-O-22)		E177900200005	
MOM-SEC	(MOM-SEC,8-O-22)longitudinal momentum in projectile		E177900200006	
	rest frame		E177900200007	
STATUS	(CURVE)Data scanned from Fig.2-a (filled		E177900200008	
	circle),p.142502-2 in reference		E177900200009	
ENDBIB	7	0	E177900200010	
NOCOMMON	0	0	E177900200011	
DATA	3	15	E177900200012	
<u>MOM-SEC</u>	DATA	DATA-ERR	E177900200013	
MEV/C	ARB-UNITS	ARB-UNITS	E177900200014	
	-2.532E+02	1.126E+01	4.929E+00	E177900200015
	-2.214E+02	1.971E+01	4.225E+00	E177900200016

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