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Memo CP-D/644

Date: 7 June 2010
To: Distribution
From: N. Otsuka, V. McLane, S. Dunaeva, O. Schwerer
Subject: Use of Branch code (DEF)

We propose to delete the code (DEF) from Dictionary 31 and the related codes from Dictionary 236.

We have checked the remaining entries that use the code REACTION SF5 (Branch) code (DEF) and all involve measurement of the product nuclide.

All affected subentries are listed below. More than two possible outgoing channels are energetically possible for all cases, and therefore change of SF3 to X and deletion of (DEF) in SF5 are proposed.

Subentry	REACTION (current)	E _{min} (MeV)	E _{max} (MeV)	1	2	3	4	5
A0584.012	(5-B-11(3-LI-7,2N+P)7-N-15,(DEF),SIG)	5.1	18.9	T	n+d	2n+p		
A0584.014	(5-B-11(3-LI-7,N+P)7-N-16,(DEF),SIG)	5.1	18.9	d	n+p			
B0079.011	(29-CU-63(HE3,N+A)29-CU-61,(DEF),SIG,,,EXP)	6.7	24.1	n+a	d+t	n+p+t	2n+h	
T0123.005	(29-CU-63(P,T)29-CU-61,(DEF),SIG)	20.0	22.4	t	n+d	2n+p		
A0448.006	(30-ZN-66(A,2N+P)31-GA-67,(DEF),SIG)	29.1	37.9	t	2n+p			
A0448.007	(30-ZN-66(A,N+A)30-ZN-65,(DEF),SIG)	19.8	37.9	n+a	d+t	n+p+t	2n+h	n+2d
A0448.005	(30-ZN-66(A,N+P)31-GA-68,(DEF),SIG)	18.5	37.9	d	n+p			
A0448.008	(30-ZN-66(A,N+P+A)29-CU-64,(DEF),SIG)	33.8	37.9	d+a	n+p+a	t+h		
A0448.019	(30-ZN-66(HE3,2N+P)31-GA-66,(DEF),SIG)	21.7	39.0	t	n+d	2n+p		
A0448.018	(30-ZN-66(HE3,N+P)31-GA-67,(DEF),SIG)	8.8	36.0	d	n+p			
A0448.022	(30-ZN-68(HE3,2N+P)31-GA-68,(DEF),SIG)	23.8	38.0	t	n+d	2n+p		
T0123.004.G	(31-GA-71(P,HE3)30-ZN-69-G,(DEF),SIG)	22.4	22.4	h	n+d	2n+p		
T0123.004.M	(31-GA-71(P,HE3)30-ZN-69-M,(DEF),SIG)	22.4	22.4	h	n+d	2n+p		

Dictionary 31 (Branch codes)

(DEF) (Made obsolete.)

Dictionary 236 (Quantities)

(DEF), SIG (Made obsolete.)

M+/(DEF), SIG (Made obsolete.)

PAR/(DEF), SIG (Made obsolete.)

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