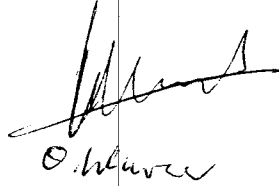


Memo 4C-3/368

18 May 1993

To: Distribution



From: H. Wienke and O. Schwerer

Subject: 1. Bremsstrahlung cross section in entry 22206
2. Comments on TRANS 2132

1. Bremsstrahlung cross section in entry 22206

In entry 22206 of TRANS 2132 Bremsstrahlung cross sections for the n-p reaction are compiled, using REACTION codes 1-H-1(N,G+N), 1-H-1(N,G+P), 1-H-1(N,INL), which do not conform to present compilation rules for light particle reactions.

We believe that this is a new data type, and - if such data are to be compiled in Exfor - a new way of coding should be proposed.

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2. Comments on TRANS 2132

Entry	Subent	Line(s)	Comment
22200 *)	1	29	Reaction product should be coded.
	2	8,26	DATA-ERR should be replaced by ERR-T.
	3		$A_0 (= \sigma/4\pi)$ should be compiled in separate subentry. MB should be replaced by MB/SR.
		4	Add A to reaction SF7.
22201	2-4		RATIO should be replaced with DATA and RATIO-ERR with DATA-ERR.
22202	2		Independent variable repeated. Flags (1) - (10) should preferably be split up into separate subentries, or data pointers or a combination of both should be used (separate tables are easier readable).
22203	1,2		Replace DATA-ERR with ERR-T.
22204	1	35	Reaction product should be coded. Add SPA to REACTION SF8.
	2		Put EN and EN-RSL-HW in common section. E-EXC-MEAN should be replaced by E-MEAN.
22205 *)	1		EN (1.47MEV) in COMMON section should be EN-NRM.
	2 - 4		Alternative results must be repeated by pointers, repeating the REACTION (see EXFOR Manual, Ch. 6, Alternative results).
	2 - 10		Put EN (1.45MEV) in COMMON section of SUBENT 1.
22206 *)	4	3	New data type, see item 1. of this memo.
22207 *)	2	3	Reaction product missing.
	2	14	EN-MEAN, EN-MIN and EN-MAX should not all be given. Give either EN-MIN and EN-MAX, or EN-MEAN with +- EN-RSL. Replace DATA-ERR with ERR-T.
22208	3	9	ATTACHED.
		19	Exponent should be right adjusted

Entry	Subent	Line(s)	Comment
22209	All		Replace DATA-ERR with ERR-T.
22212	2	3	Reaction product should be coded.
		21, 34, 39	Data missing.
	3	3	Double capture to be coded (66-DY-165(N,G)66-DY-166,,SPC).
22213	2,4,5	3	Reaction product should be coded.
	3	3	Data missing in many lines. REACTION should be (66-DY-164(N,X)0-G-0,,SPC)
22214	17	3	Target should probably be 28-NI-58.
	7 - 29	3	Add SPA to REACTION SF8.
22215	2 - 16		ERR-1 and ERR-2 should be given in DATA section or should not be coded in SUBENT 1.
	6		Delete isomer extension -G+M.
	14, 15		Exponent should be right adjusted in data section.
22216	2 - 11		Put EN-DUMMY, MONIT, MONIT-ERR in COMMON section of subent 1.
	7		Error in reaction code, should be 25-MN-56.
22217	2	8,18	The extrapolated zero-energy value should be coded with DERIV in REACTION SF9.
		20	Independent variable repeated, use data pointers or separate subentries.
	3	3	Reaction product should be coded.
22218 *)	2 - 5		Reaction product should be coded. Neutron energy missing (should be given in DATA sections or in COMMON section of SUBENT 1).
22219	2, 3		Independent variable repeated, use data pointers instead of flags or split up into separate subentries.
22220	1	13	Code obsolete, use 3CROZAG.
		14	(REAC,2GERJUL)
		23	Reaction product should be coded.

Entry	Subent	Line(s)	Comment
		25,26	DECAY-MON should be changed to DECAY-DATA. MONITOR is probably not needed (same as REACTION, no values given under MONIT). 58-CE-140 should be omitted, decay data belong to 57-LA-140 (even though the gammas are emitted after beta decay).
22221	1		+DATA-ERR, -DATA-ERR, E-ERR and DATA-ERR should be given in corresponding subentries.
	3	16,17	Data missing.
	4	16-21	Data missing.
22223 *)	2	3	Reaction product should be coded. Remove EN from DATA section and put EN-RSL-HW in COMMON section.
22224	2	3	Reaction product should be coded. Replace DATA-ERR with ERR-T.
22225 *)	1, 2-4		DATA-ERR, RATIO-ERR1 and RATIO-ERR2 should be split up into the corresponding subentries.
	2	14,15	Independent variables repeated, use data pointers instead of flags.
	3, 4		Reactions must be coded: 1-H-1(N,EL)1-H-1,,DA,P). Use DATA, ERR-T in place of RATIO, RATIO-ERR.
22226	1	36	43-TC-100 in SF1 of monitor-reaction code needs explanation in free text.
	2	9 89	E in COMMON section must be E-NRM. Independent variable repeated.
22227	1	9,10	Move second INSTITUTE code to FACILITY (REAC,2DENRIS).
22228 *)	2	3	Incident-neutron energy missing. Reaction product should be coded.
22229	1 All	39	Reaction product should be coded. Replace DATA-ERR with ERR-S.

*) Retransmission requested