10 January 1992

To: Distribution

From: O. Schwerer *[signature]*

Subject: Comments on TRANS tapes M011, M012, M013, M014 and L004

  Please find attached our comments on the above TRANS tapes. We encountered a few problems where we request retransmission, which should however be easy to correct for the originating centre. Considering the huge amount of data transmitted we think the quality of the entries is very good.

General comments:

1. Some of the new codes used in these tapes, which were proposed in memo CP-C/200, are not(yet) included in the dictionaries because further clarifications were requested in memo CP-D/219.

    This concerns in particular the quantities

        ,DE,N/P and similar
        PAR,MCO,N/P
        ,DE,A/RSD and ,DA,RSD
        ,POL/DA,,ASY/PP

    and the headings MASS1, MASS2 and derivatives.

2. In many entries, the heading ERR-S is given in coded form under ERR-ANALYS in subentry 1 but not used in all subentries. This could be solved best by removing the code (or its parentheses) from subentry 1.

                                        Clearance: J.J. Schmidt *[signature]*

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#5150N

Comments on TRANS M011

Entry	Subent	Line(s)	Comment
M0003	24	13	Level energy given 3 times: headings E-LVL and E-LVL-MEAN (<u>twice</u>) are given. I am neither sure what this means nor if this is legal.
	25	14	as above, with 4 times E-LVL-MEAN
M0009	3	29	identical with line 28
M0028	6*),7*)		EN-MAX in COMMON section is in conflict with EN in DATA section. COMMON section should be deleted. If this information is important, it should be given in the BIB section under an appropriate BIB keyword.
M0035	20 *)		Units NO-DIM are not compatible with heading E1. If such a quantity is needed, a new heading must be introduced.
M0037			Error headings inconsistent. Subentry 1 says "statistical errors only", therefore all subentries should give ERR-S. However, subentries 3-6 give "DATA-ERR".
M0045	2	56	identical with line 55
		63	" " " 62
M0046	2*),3*)		see comment on M0028

Comments on TRANS M012

Entry	Subent	Line(s)	Comment
M0065.012		4	change E1 to E1-CM
M0072	5-12		EN-SEC should be E1-MIN, E2-MIN
M0074	4	3	REACTION SF4 missing
M0080 *)			ERR-ANALYS inconsistent:
			- in BIB section and subentry 2 heading 'DATA-ERR' is given, but explanation is 'statistical error only' - if this is correct, use ERR-S throughout

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*) Retransmission requested

- not all subentries give an error: move
  ERR-ANALYS to subentries

MO0098 *) 2   20   E-value repeated, probably mistake

MO127   5   51   independent variable repeated
         6   92   "   "   "

MO135   7   32   independent variable repeated

MO140 *) 11   REACTION: ,PAR,SIG,D,,EVAL:
D in SF7 is redundant (same as 1-H-2 in
SF4) and should be deleted. However, E-MIN
(given in COMMON section) which probably
refers to the deuteron (or neutrons or
protons?) should be defined under EN-SEC.

           12   REACTION: Delete SF7; explanations
concerning the meaning of 'PAR' should be
given under EN-SEC plus free text (if
needed). EN-SEC: should be E1-MIN, E2-MIN.

Comments on TRANS MO13

Entry	Subent	Line(s)	Comment
MO152 *)	6	22,23	Line 23 gives data for ELEMENT=21, MASS=44, ISOMER=1. Line 22 has some element and mass but ISOMER=blank which means total cross section, but the data are smaller than for the ISOMER=1 in line 23. Probably the partial cross section for the ground state is meant which requires ISOMER=0. (not blank). Similarly, line 14 may also (or may not) require ISOMER=0, please check. Please check also the other subentries of this entry for the correct ISOMER flags.
MO169	6,7	10	Headings MASS1-MAX, MASS2-MIN not yet in dict. 24
MO175	9		Quantity ,DA,,SN2 to be added to dict. 36 (so far, only POL/DA,,SN2 and FM/DA,,SN2 exist)

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M0235	2	59	EN-value repeated, probably mistake
M0240	2	74	identical with line 73
	3	83	EN value repeated
M0244 *)	2		units ARB-UNITS invalid with heading E
M0255	2		several EN values repeated
M0288	3		DI,DA/DE will be added to dict. 36
M0291 *) M0293 *)	2,3		REACTION: PAR,INT/DA,G is dependent on angle (DA given in SF6 and units MB*MEV/SR) but no angle given in COMMON or DATA section.

Comments on TRANS M014

Entry	Subent	Line(s)	Comment
M0301	4,7,10		In my opinion, PAR in SF5 should be deleted. Difference spectrum is characterized by giving EN-MIN and EN-MAX.
M0305	1	33-64	Invalid characters used for grid in free text table
M0327 *)	16		Both EN-MAX and EN given. Compare our comment on M0028 in TRANS M011.
M0331	1	19	Coded information obligatory for PART-DET. Give (A).
M0333 *)	1	7,23	Journal code AAN invalid, probably either AANL or AAST.
M0340 *)	1	11	PART-DET: should be N rather than P (even if neutrons are counted by proton recoils, unless the protons are a product of the reaction coded under REACTION)
	2		REACTION ... (G,XN) without SF4 in invalid; this must be coded (G,X)O-NN-1.

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Comments on TRANS L004

Entry	Subent	Line(s)	Comment
L0050	25	3	SF4 should read 90-TH-230
L0052 *)	5,6		The nuclide code 2-HE-2 given in SF4 of the first reaction in the sum does not seem to make sense and is not added to dict. 27. The COMMENT in subentry 1 explicitly only mentions 3-body breakup for He-3, while for H-3 both 2-body and 3-body-breakup are mentioned. Probably REACTION should be coded just as (2-HE-3(G,N+P)1-H-1,,SIG) without giving a sum.
	7		SEQ,INT will be added to Dict. 36.
L0059	1	10	QMPN should read QMPH

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