

Memo 4C-3/300

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To: Distribution

4 September 1986

From: *O. Schwerer* *H.D. Lemmel*
O. Schwerer and H.D. Lemmel

Subject: TRANS 2110, 2111, 2112

Please find enclosed our comments on TRANS tapes 2110, 2111 and 2112.

We are a bit alarmed about the surprising number of mistakes in the REACTION strings. This constitutes the basic key for indexing and retrieving EXFOR data and, therefore, must be free of mistakes. All of the mistakes encountered could be detected by an improved check-program. Details could be discussed at the forthcoming Technical NRDC Meeting.

We also wish to comment on the use of alter flags in TRANS 2110-2112: in many retransmitted entries, alter flags are used inconsistently, incompletely or not at all. In particular, TRANS 2111 consists mainly of retransmissions of subentry 1 only, most of them having no alter flags at all nor any description of the alteration under HISTORY. For EXFOR users inside the centers and outside it is essential to know at least approximately what kind of alteration was done.

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Comments on TRANS 2110-2112

2110	20540	5	3	isomeric sum requires 'SUM' in SF6
	21362	22	3	reaction product missing
	21983	3	3	delete ELEM in REACTION SF4 (chain yield, only MASS given in data section)
			104	exponent of last field in wrong position
	21984	95	3	SF4 should read 8-0-16
	21989	2	3	SF4 should read 1-H-2
	21993	2*)	13	ANGLE should have units ADEG (DEG-C = degrees Celsius)
				data section: EN not monotonic. Either sort data records by energy, or put ANG in first data field (col. 1-11).
	21994	2-8	6	abundance field wrong, divide by 100 (100% = 1.0)
	22000*)	2,4,6		data section: spectrum temperature KT needs units (M)EV, not DEG-K. Sample temperature must be given as "additional information" following the DATA, under heading TEMP. If the sample temperature is meant, than EN (or equivalent) is missing.
				whole entry: 5 subentries for 63-EU-152(N,G),,SIG are given, 3 of them with the MKW modifier at the same "temperature", and 2 more with DERIV in SF9. I do not understand the difference between these values from the information given in the EXFOR entry.
	22001	14,15 21,22*)	3	isomeric sum requires 'SUM' in SF6 EN-MIN > EN-MAX. Or should EN-MIN be changed to EN-MEAN and EN-MAX to EN-ERR?
	22003	2*)		data not monotonic; data for Z=30,31 (=lines 249-269) should be moved to top of data section.

Comments on TRANS 2111

<u>Entry</u>	<u>Subent</u>	<u>Line</u>	<u>Comments</u>
20396	1	3	comma missing (it is probably not <u>volume</u> 129 but page 129)
20864	1	3	date should be,80)
20914	1	8	comma missing (not <u>volume</u> 439)
21314	1	5	comma missing (not <u>volume</u> 547)

*) Retransmission requested

Comments on TRANS 2112

20087	6	6	delete '(' in col. 12
20092	1	11	GMC should read GEMUC
	8	3	SF4 should be 30-ZN-69
20477	1	19	SF4 should be 27-CO-60

Comments on TRANS 2112

20554	1	22	AS-54 should probably read AS-74 AS-53 should probably read AS-73
20703	2	6	(N,NON) should read (N,X)
20770	1	11	code field must not be omitted. Use (N,...)
20772	1	3	issue# must be enclosed in ()
		81	EN-RSL must be explained under INC-SPECT, not ERR-ANALYS
20826	2	3	,,SIG,,INT is invalid code. Cross section integrals are coded ,,INT but have dimension B*EV. Use ,,SIG,,AV or ,,SIG only.
20854	1	40	should be (P,S-501,...)
20860	1	3	issue# must be enclosedd in ()
20922	7	4	decimal point missing
21376	3	3	comma missingSIG,,DERIV
21395	2	3	opening parenthesis missing
	8,19,20	3	SF4 must be blank, or use (N,G) instead of (N,ABS)
21421	2	19	DATA record: N1=6
21649	1	34	remove '(' in col. 12
21659	1	3	issue# must be enclosed in ()
21683	1	95	EN-RSL must be explained under INC-SPECT.