

MEMO 4C-3/274

9 August 1984

To: Distribution

From: O. Schwerer *O. Schwerer*

Subject: Comments on TRANS 1182,1183,2099,2100  
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Please find enclosed our comments on TRANS 1182, 1183, 2099 (except those already mentioned in Memo 4C-1/147), 2100.

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TRANS 1182

| <u>Entry</u> | <u>Subentry</u> | <u>Seq.</u>                         | <u>Comments</u>  |
|--------------|-----------------|-------------------------------------|--|
| 10805        | 9               | 27                                  | EN-RES should be DATA                                  |
| 12664        | 3               | 159,161,163,165,<br>167,169,171,173 | Both independent variables<br>repeated - check numbers |
| 12763        | 1<br>3,4        | 32<br>3                             | decimal point missing<br>SIG should be SIG/RAT         |
| 12858        | 1               | 3                                   | 2JAP should be 2JPN                                    |

TRANS 1183

|       |     |       |  |
|-------|-----|-------|--|
| 11282 | 4,9 |       | Heading E repeated. Either this<br>should be legalized, or E-MIN,<br>E-MAX should be used. |
| 12870 | 5   | 16,17 | Acc.nos. in STATUS code: 0<br>missing  |

General Remarks on TRANS-2099,2100

1. For elastic scattering REACTION SF4 must be coded.
2. Under ERR-ANALYS only those headings may be given in coded form which are actually used in the DATA (or COMMON) sections.
3. Isomeric cross section ratios should be coded within 1 REACTION string as described in the Manual under REACTION.
4. Levels of the residual nucleus should be given under the heading E-LVL rather than E-LVL-FIN. (E-LVL-FIN is used mainly in connection with E-LVL-INI.)

Comments on TRANS-2099  
(excluding errors mentioned in Memo 4C-1/147)

| <u>Entry</u> | <u>Subentry</u> | <u>Lines</u> |   |
|--------------|-----------------|--------------|---|
| 21813*       | 2               | 28-53        | Values for all 3 variables EN-MEAN, EN-MIN and EN-MAX are given which is illegal. Change heading EN-MEAN to MISC and move this column after ERR-T. (Or change EN-MIN and EN-MAX to MISC1, MISC2). |
| 21869        | 2,3,4           | 1            | * missing in col. 80  |
| 21876        | 4               | 130          | EN-MIN field: exponent should read -03  |
| 21883*       | all             |              | ERR-1 defined under ERR-ANALYS but never used in DATA or COMMON.  |
| 21887        | 1               | 6            | Delete unmatched parenthesis.   |

Comments on TRANS-2100

| <u>Entry</u>   | <u>Subentry</u> |  |            |
|----------------|-----------------|--|------------|
| 20348          | 2               | MONITOR: SF 4 missing  |            |
| 20695          | 2*)             | REACTION 2:<br>66-DY-165(N,G)66-DY-166-M should probably read<br>66-DY-165-M(N,G)66-DY-166 because<br>1) isomer of <sup>166</sup> Dy is not known and no half-life<br>for it is given,<br>2) <sup>165</sup> Dy isomers mentioned in title. |            |
| 20826          | 5               | REACTION: add DERIV ?<br>COMMENT: should rather be METHOD or ANALYSIS  |            |
| 21304          | 32*)            | REACTION: either outgoing particle or product nucleus wrong  |            |
| 21713<br>21758 | 1               | ENDENTRY<br>ENDSUBENT<br>ENDENTRY  | } N1 wrong |
| 21788          | 5,6,7           | DATA section: exponents must be right-adjusted within field  |            |
| 21825          | 4-27            | REACTION: SF4 missing  |            |

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\*) Retransmission requested

| <u>Entry</u> | <u>Subentry</u>  |  |
|--------------|--|--|
| 21881        | 2<br>3,4,6<br>4  | HISTORY dates out of order<br>Heading E-LVL-FIN repeated. E-LVL should be used instead.<br>line 41: EN repeated (wrong?)   |
| 21897*)      |  | The error heading ERR-S is given under ERR-ANALYS but never used in DATA or COMMON sections.   |
| 21898        | 1  | ENDSUBENT: N1 wrong<br>REFERENCE: page no. missing (32)  |
| 21903        | 8,9  | REACTION: M/M+G should read M/T  |
| 21904*)      | 2-5  | Levels of residual nucleus given in free text only, should be coded under E-LVL and EN-SEC.  |
| 21905        | 3*)  | Quantity (SIG) not consistent with units (MB/MEV).   |
| 21911*)      |  | The error heading ERR-S is given under ERR-ANALYS but never used in DATA or COMMON sections.   |
| 21912        | 2*)  | MONIT given in DATA section, but no MONITOR defined in BIB section   |
| 21913        | 4<br>12<br>14  | line 111: EN repeated (wrong?)<br>line 122: EN repeated (wrong?)<br>REACTION should be coded in 1 line as ...36-KR-85-M/T,,SIG/RAT,,MXW)   |
| 21914        | 3*)  | line 14: 5 values given in 3 data columns and in wrong positions   |
| 21916*)      |  | ERR-S and ERR-T given under ERR-ANALYS but never used in DATA or COMMON sections.  |
| 21916*)      | 2,4,6,9,<br>11,13,15<br><br>3,5,7,8,<br>10,12,14,<br>16,17<br><br>22<br><br>23 | Coded as (N,HE3), but in free text defined as (N,HE3) + (N,D+P)+(N,N+2P). Unless the 2 other cross sections are negligible, this should be coded (N,X) resid.nucl. (or explicitly as sum of the 3 cross sections).<br>Unless all other reaction channels are negligible, these reactions must be coded (N,X) rather than (n, <del>α</del> ). (For such data, also the coding (N,2N+2P)...,UND,SIG would be possible but was, so far, only used for charged-particle induced reactions.)<br>57-LA-0 should be replaced by 57-LA-139 (rule for nearly-monoisotopic elements)<br>same for 73-TA-0 |
| 21918*)      | 10,11  | ERR-T given under ERR-ANALYS but never used in DATA or COMMON sections.<br>Isomeric ratios should be coded ...-M/G,,SIG/RAT  |