

3 March 1975

To: Distribution

From: J. J. Schmidt and H. D. Lemmel HDL

Subject: Non-neutron EXFOR developed at Karlsruhe

Please find attached copy of a letter from F. Kronenberger at Karlsruhe describing some modifications in the EXFOR format adopted at Karlsruhe for its extension to charged-particle induced reaction. Also attached are two sample EXFOR entries and some dictionary extensions. We submit this proposal for serious consideration at the 4C-Meeting.

The essential points are:

1. The iso-quant consists of two parts: the nucleus<sup>or</sup> reaction, and the parameter of this reaction given in the DATA table. The reaction is coded in a very straight-forward way as usually given in the literature, for example:  
(79-AU-197 (A,7N)81-TL-194M, parameter given), <sup>or</sup> as:  
(39-4-89 (P,P2N)39-Y-87G+39-Y-87M, parameter given).

The "parameter given" is along the lines of Dict.14 of the classical EXFOR but excluding the reaction code from the first quantity subfield. The code "CRO" was introduced for the integral cross section of the reaction considered. To indicate to the computer programs the revised iso-quant format, the keyword "ISO-QUANT" was replaced by a new keyword "REACTION".

In view of the large number of possible reactions, we regard the proposed split into "reaction" and "parameter given" as absolutely necessary, and we find the proposed format suitable and recommendable. The "parameter given" would require a dictionary close to but much shorter than the classical Dictionary 14. Details are to be worked out. In the "reaction" all particle codes from Dict.13 are permitted as projectile or as outgoing particles and any nuclide codes in the Z-S-A-M form could be included as well. An extension to ions is possible as well, perhaps in the form Z-S-A-3+ or Z-S-A-1- (the use of the same symbol for separator-hyphen and ion-charge-sign is cosmetically not nice but does not lead to ambiguities). Details are to be reviewed.

2. Under "PART-DET" not only the particle type actually detected is coded, but also the nuclide emitting this particle. Decay properties are given in free text under "PART-DET". (The half-life entered here is however not computer-readable, and this seems to be a disadvantage.)
3. The keyword "RESID-NUC" is cancelled. When the residual nucleus is not stable, its definition may be ambiguous. Instead relevant nuclei are coded under "REACTION" and "PART-DET".

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4. The "STANDARD" reaction is given in the same format as the reaction measured. To indicate to the computer program the revised format, the keyword "STANDARD" was changed to "MONITOR". (Perhaps it is more generally used than in neutron physics?)
5. A number of dictionary additions were proposed for method information. Mr. Kronenberger said that he was not sure whether this is really needed in coded form. As long as this is not proven we are not in favor of extending the method dictionaries.

*in charge-particle physics  
the term MONITOR*

Clearance: J. J. Schmidt

AttachmentDistribution:

Pearlstein, NNCSC (5x)  
Lesca, NDCC (5x)  
Manoukian, (JD) (5x)  
NDG

J. J. Schmidt, NDS, IAEA, WIEN

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ENTRY          60001      750204      6000100000001
SUBENT         60001001    750204      6000100100001
BIB            13         20         6000100100002
TITLE          (P,XN) AND (P,PXN) REACTIONS OF YTTRIUM-89 WITH 5 - 85 6000100100003
              MEV PROTONS                                           6000100100004
AUTHOR         (G. B. SAHA, N. T. PORILE, L. YAFFE)                   6000100100005
INSTITUTE      (ICANMCG)                                             6000100100006
REFERENCE      (J, PR, 144, 962, 66)                                 6000100100007
MONITOR        (29-CU-63(P,N)30-ZN-63) S. N. GHOSHAL, PHYS. REV. 80, 939, 50 6000100100008
              (29-CU-65(P,PN)29-CU-64) S. MEGHIR, L. YAFFE, UNPUBLISHED 6000100100009
METHOD         (SITA, INTB, CHSEP, MONMIX)                           6000100100010
FACILITY       (SYNCYC, ICANMCG)                                     6000100100011
DETECTOR       (ARCOI, NAICR)                                       6000100100012
SAMPLE         (39-Y-OXI)                                           6000100100013
ERR-ANALYS    UNCERTAINTIES INCLUDE RANDOM ERROR OF THE DETERMINATION 6000100100014
              OF PHOTOPEAK-AREA, DECAY CURVE ANALYSIS AND CHEMICAL 6000100100015
              YIELD AS WELL AS SYSTEMATIC ERRORS ASSOCIATED WITH 6000100100016
              COUNTER EFFICIENCIES AND SPREAD IN BEAM ENERGY. ERRORS 6000100100017
              IN MONITOR CROSS SECTIONS AND DECAY SCHEME DATA ARE NOT 6000100100018
              INCLUDED                                             6000100100019
ANALYSIS       (GARFA)                                             6000100100020
HISTORY        (741101C) LA                                         6000100100021
STATUS         (CCMP)                                              6000100100022
ENDBIB        20                                                  6000100100023
NOCOMMON      23                                                  6000100100024
ENDSUBENT     23                                                  6000100199999
SUBENT        60001002      750204      6000100200001
BIB            2           4         6000100200002
REACTION       (39-Y-89(P,N)40-ZR-89,CRO)                           6000100200003
PART-DET       (40-ZR-89,AR,DG) HALF-LIFE 78.6HR                   6000100200004
              ANNIHILATION RADIATION 0.22 BETA+ PER DECAY          6000100200005
              908KEV PHOTONS, 1.0 PER DECAY                         6000100200006
ENDBIB        4                                                  6000100200007
NOCOMMON      19                                                  6000100200008
DATA          3           19         6000100200009
EN            DATA      DATA-ERR                                     6000100200010
MEV           MB        MB                                           6000100200011
              5.         50.         5.5                             6000100200012
              8.5        352.        39.                             6000100200013
              12.        726.        70.                             6000100200014
              15.        712.        78.                             6000100200015
              18.5       552.        61.                             6000100200016
              21.5       395.        43.                             6000100200017
              24.8       194.        21.                             6000100200018
              27.5       103.        11.                             6000100200019
              30.5       61.4        6.8                             6000100200020
              33.5       43.         4.7                             6000100200021
              36.8       45.         5.                             6000100200022
              42.        37.         4.1                             6000100200023
              48.        29.4       3.2                             6000100200024
              54.        29.7       3.3                             6000100200025
              60.        23.3       2.6                             6000100200026
              66.        19.7       2.2                             6000100200027
              72.        17.         1.9                             6000100200028
              78.        14.4       1.6                             6000100200029
              85.        12.         1.3                             6000100200030
ENDDATA       21                                                  6000100200031
ENDSUBENT     30                                                  6000100299999
SUBENT        60001003      750204      6000100300001

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BIB 3 8 6000100300002  
 REACTION (39-Y-89(P,P2N)39-Y-87M,CRO) 6000100300003  
 PART-DET (39-Y-87M,DG) HALF-LIFE 13.2HR 6000100300004  
 381KEV PHOTONS, 1.0 PER DECAY 6000100300005  
 MISC-COL (MISC1) SUM OF THE CROSS SECTIONS FOR 6000100300006  
 (39-Y-89(P,P2N)39-Y-87G + 39-Y-87M) 6000100300007  
 (MISC2) RATIO OF THE CROSS SECTIONS 6000100300008  
 (39-Y-89(P,P2N)39-Y-87M)/(39-Y-89(P,P2N)39-Y-87G) 6000100300009  
 (MISC3) ERROR OF MISC2 6000100300010

ENDBIB 8 6000100300011  
 NOCOMMON 6000100300012  
 DATA 6 16 6000100300013

EN	DATA	DATA-ERR	MISC1	MISC2	MISC3
MEV	MB	MB	MB	NO-DIM	NO-DIM
24.8	0.4	0.08	1.4	0.4	0.08
27.	1.8	0.36	3.5	1.06	0.22
30.5	64.	13.	95.7	2.02	0.42
33.5	159.	32.	229.	2.27	0.48
36.8	201.	40.	284.	2.42	0.51
40.	230.	46.	320.	2.56	0.54
42.	281.	56.	370.	3.15	0.66
42.	251.	50.	352.	2.5	0.53
45.	282.	56.	395.	2.5	0.53
48.	245.	49.	340.	2.6	0.55
54.	180.	36.	263.	2.17	0.46
60.	146.	29.	218.	2.03	0.43
66.	111.	22.	164.	2.09	0.44
72.	111.	22.	158.6	2.33	0.49
78.	107.	21.	155.6	2.2	0.46
85.	88.	18.	128.5	2.17	0.46

ENDDATA 18 6000100300032  
 ENDSUBENT 31 6000100399999  
 SUBENT 60001004 750204 6000100400001  
 BIB 2 3 6000100400002  
 REACTION (39-Y-89(P,2N)40-ZR-88,CRO) 6000100400003  
 PART-DET (40-ZR-88,DG) HALF-LIFE 85D 6000100400004  
 0.39MEV PHOTONS, 1.0 PER DECAY 6000100400005

ENDBIB 3 6000100400006  
 NOCOMMON 6000100400007  
 DATA 3 18 6000100400008

EN	DATA	DATA-ERR
MEV	MB	MB
15.	68.	0.8
18.5	352.	46.
21.5	495.	64.
24.8	1252.	163.
27.	1448.	162.
27.5	1318.	171.
30.5	828.	108.
30.5	896.	116.
33.5	506.	66.
36.8	329.	43.
42.	172.	22.
48.	112.	15.
54.	82.5	11.
60.	73.4	9.5
66.	60.	7.8
72.	54.	7.
78.	46.	6.

6000100400009  
6000100400010  
6000100400011  
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6000100400014  
6000100400015  
6000100400016  
6000100400017  
6000100400018  
6000100400019  
6000100400020  
6000100400021  
6000100400022  
6000100400023  
6000100400024  
6000100400025  
6000100400026  
6000100400027

85. 41. 5.3  
 ENDDATA 20  
 ENDSUBENT 28  
 SUBENT 60001005 750204  
 BIB 2 3  
 REACTION (39-Y-89(P,3N)40-ZR-87,CRO)  
 PART-DET (40-ZR-87,AR) HALF-LIFE 100MIN  
 ANNIHILATION RADIATION, 0.83 BETA+ PER DECAY

ENDBIB 3  
 NOCOMMON  
 DATA 3 14  
 EN DATA DATA-ERR  
 MEV MB MB  
 30.5 55. 6.6  
 33.5 118. 14.  
 36.8 313. 38.  
 40. 385. 46.  
 42. 333. 40.  
 42. 349. 42.  
 45. 299. 36.  
 48. 168. 20.  
 54. 91. 11.  
 60. 55.4 6.6  
 66. 54. 6.5  
 72. 47.5 5.7  
 78. 36.5 4.4  
 85. 31.5 3.8

ENDDATA 16  
 ENDSUBENT 24  
 SUBENT 60001006 750204  
 BIB 2 3  
 REACTION (39-Y-89(P,4N)40-ZR-86,CRO)  
 PART-DET (40-ZR-86,DG) HALF-LIFE 17HR  
 241KEV PHOTONS, 1.0 PER DECAY

ENDBIB 3  
 NOCOMMON  
 DATA 3 9  
 EN DATA DATA-ERR  
 MEV MB MB  
 45. 26.6 4.3  
 48. 57. 9.1  
 54. 78. 12.5  
 57. 81.5 13.  
 60. 63. 10.  
 66. 42. 6.7  
 72. 32. 5.1  
 78. 27.7 4.4  
 85. 22. 3.5

ENDDATA 11  
 ENDSUBENT 19  
 SUBENT 60001007 750204  
 BIB 2 4  
 REACTION (39-Y-89(P,PN)39-Y-88,CRC)  
 PART-DET (39-Y-88,DG) HALF-LIFE 105D  
 0.90MEV PHOTONS, 0.94 PER DECAY  
 1.84MEV PHOTONS, 1.0 PER DECAY

ENDBIB 4  
 NOCOMMON  
 DATA 3 16

6000100400028  
 6000100400029  
 6000100499999  
 6000100500001  
 6000100500002  
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 6000100700005  
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 6000100700007  
 6000100700008  
 6000100700009

EN MEV	DATA MB	DATA-ERR MB					
15.	3.6	0.5					6000100700010
18.5	38.	5.					6000100700011
21.5	141.	18.					6000100700012
24.8	257.	33.					6000100700013
27.5	304.	40.					6000100700014
30.5	365.	47.					6000100700015
33.5	310.	47.					6000100700016
36.8	283.	37.					6000100700017
42.	231.	30.					6000100700018
48.	228.	30.					6000100700019
54.	186.	24.					6000100700020
60.	199.	26.					6000100700021
66.	177.	23.					6000100700022
72.	175.	23.					6000100700023
78.	162.	21.					6000100700024
85.	144.	19.					6000100700025
ENDDATA		18					6000100700026
ENDSUBENT		27					6000100700027
SUBENT	60001008	750204					6000100700028
BIB	3	8					6000100799999
REACTION	(39-Y-89(P,P2N)39-Y-87G,CRO)					6000100800001	
PART-DET	(39-Y-87G,DG) HALF-LIFE 80HR					6000100800002	
	0.48MEV PHOTONS, 0.977 PER DECAY					6000100800003	
MISC-COL	(MISC1) SUM OF THE CROSS SECTIONS FOR					6000100800004	
	(39-Y-89(P,P2N)39-Y-87G + 39-Y-87M)					6000100800005	
	(MISC2) RATIO OF THE CROSS SECTIONS					6000100800006	
	(39-Y-89(P,P2N)39-Y-87M)/(39-Y-89(P,P2N)39-Y-87G)					6000100800007	
	(MISC3) ERROR OF MISC2					6000100800008	
ENDBIB		8					6000100800009
NOCOMMON							6000100800010
DATA		6	16				6000100800011
EN MEV	DATA MB	DATA-ERR MB	MISC1 MB	MISC2 NO-DIM	MISC3 NO-DIM		
24.8	1.	0.2	1.4	0.4	0.08	6000100800012	
27.	1.7	0.34	3.5	1.06	0.22	6000100800013	
30.5	31.7	6.3	95.7	2.02	0.42	6000100800014	
33.5	70.	14.	229.	2.27	0.48	6000100800015	
36.8	83.	17.	284.	2.42	0.51	6000100800016	
42.	90.	18.	320.	2.56	0.54	6000100800017	
42.	98.2	18.	370.	3.15	0.66	6000100800018	
42.	101.	20.	352.	2.5	0.53	6000100800019	
45.	113.	23.	395.	2.5	0.53	6000100800020	
48.	95.	19.	340.	2.6	0.55	6000100800021	
54.	83.	17.	263.	2.17	0.46	6000100800022	
60.	72.	14.	218.	2.03	0.43	6000100800023	
66.	53.	11.	164.	2.09	0.44	6000100800024	
72.	47.6	9.5	158.6	2.33	0.49	6000100800025	
78.	48.6	9.7	155.6	2.2	0.46	6000100800026	
85.	40.5	8.1	128.5	2.17	0.46	6000100800027	
ENDDATA		18					6000100800028
ENDSUBENT		31					6000100800029
SUBENT	60001009	750204					6000100800030
BIB	3	8					6000100800031
REACTION	(39-Y-89(P,P3N)39-Y-86M,CRO)					6000100800032	
PART-DET	(39-Y-86M,DG) HALF-LIFE 48.5MIN					6000100800033	
	208KEV PHOTONS, 1.0 PER DECAY					6000100800034	
MISC-COL	(MISC1) SUM OF THE CROSS SECTIONS					6000100800035	

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(39-Y-89(P,P3N)39-Y-86M + 39-Y-86)
(MISC2) RATIO OF THE CROSS SECTIONS
(39-Y-89(P,P3N)39-Y-86M)/(39-Y-89(P,P3N)39-Y-86G)
(MISC3) ERROR OF (MISC2)
ENDBIB 8
NOCOMMON
DATA 6 9
EN DATA DATA-ERR MISC1 MISC2 MISC3
MEV MB MB MB NO-DIM NO-DIM
45. 17.5 4.4 61.5 0.4 0.11
48. 56.5 14. 126.5 0.81 0.23
54. 115. 20. 208. 1.24 0.35
57. 106. 27. 209. 1.03 0.29
60. 135. 34. 237. 1.32 0.37
66. 87. 22. 161. 1.18 0.33
72. 64. 16. 121. 1.11 0.31
78. 64.5 16. 117.5 1.22 0.34
85. 55.2 14. 105.6 1.1 0.31
ENDDATA 11
ENDSUBENT 24
SUBENT 60001010 750204
BIB 3 8
REACTION (39-Y-89(P,P3N)39-Y-86G,CRC)
PART-DET (39-Y-86G,AR) HALF-LIFE 14.7HR
ANNIHILATION RADIATION, 0.30 BETA+ PER DECAY)
MISC-CPL (MISC1) SUM OF THE CROSS SECTIONS
(39-Y-89(P,P3N)39-Y-86M + 39-Y-86G)
(MISC2) RATIO OF THE CROSS SECTIONS
(39-Y-89(P,P3N)39-Y-86M)/(39-Y-89(P,P3N)39-Y-86G)
(MISC3) ERROR OF (MISC2)
ENDBIB 8
NOCOMMON
DATA 6 9
EN DATA DATA-ERR MISC1 MISC2 MISC3
MEV MB MB MB NO-DIM NO-DIM
45. 44. 11. 61.5 0.4 0.11
48. 70. 18. 126.5 0.81 0.23
54. 93. 23. 208. 1.24 0.35
57. 103. 26. 209. 1.03 0.29
60. 102. 26. 237. 1.32 0.37
66. 74. 19. 161. 1.18 0.33
72. 57.5 14. 121. 1.11 0.31
78. 53. 13. 117.5 1.22 0.34
85. 50.4 13. 105.6 1.1 0.31
ENDDATA 11
ENDSUBENT 24
SUBENT 60001011 750204
BIB 3 8
REACTION (39-Y-89(P,P4N)39-Y-85M,CRC)
PART-DET (39-Y-85M,AR) HALF-LIFE 2.68HR
ANNIHILATION RADIATION, 0.55 BETA+ PER DECAY)
MISC-COL (MISC1) SUM OF THE CROSS SECTIONS
(39-Y-89(P,P4N)39-Y-85M + 39-Y-85G)
(MISC2) RATIO OF THE CROSS SECTIONS
(39-Y-89(P,P4N)39-Y-85G)/(39-Y-89(P,P4N)39-Y-85M)
(MISC3) ERROR OF (MISC2)
ENDBIB 8
NOCOMMON
DATA 6 9

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6000100900007
6000100900008
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6000101100011
6000101100012
6000101100013

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EN MEV	DATA MB	DATA-ERR MB	MISC1 MB	MISC2 NO-DIM	MISC3 NO-DIM	
62.	4.6	0.55	57.6	11.5	1.03	6000101100014
66.	32.5	3.9	134.5	3.14	0.28	6000101100015
66.	57.	6.8	155.	1.72	0.15	6000101100016
72.	58.	7.	163.	1.81	0.16	6000101100017
72.	52.4	6.3	141.4	1.7	0.15	6000101100018
78.	46.5	5.6	136.5	1.94	0.17	6000101100019
78.	44.	5.3	133.	2.02	0.18	6000101100020
85.	43.	5.2	109.	1.53	0.14	6000101100021
85.	40.	4.8	127.	2.18	0.2	6000101100022

ENDDATA 11  
 ENDSUBENT 24  
 SUBENT 60001012 750204  
 BIB 3 8  
 REACTION (39-Y-89(P,P4N)39-Y-85G,CRO)  
 PART-DEF (39-Y-85G,AR) HALF-LIFE 5HR  
 ANNIHILATION RADIATION, 0.70 BETA+ PER DECAY  
 MISC-COL (MISC1) SUM OF THE CROSS SECTIONS  
 (39-Y-89(P,P4N)39-Y-85M + 39-Y-85G)  
 (MISC2) RATIO OF THE CROSS SECTIONS  
 (39-Y-89(P,P4N)39-Y-85G)/(39-Y-89(P,P 4N)39-Y-85M)  
 (MISC3) ERROR OF (MISC2)

ENDBIB 8  
 NOCOMMON  
 DATA 6 9  

EN MEV	DATA MB	DATA-ERR MB	MISC1 MB	MISC2 NO-DIM	MISC3 NO-DIM	
60.	53.	6.4	57.6	11.5	1.03	6000101200013
66.	102.	12.	134.5	3.14	0.28	6000101200014
66.	98.	12.	155.	1.72	0.15	6000101200015
72.	105.	12.	163.	1.81	0.16	6000101200016
72.	89.	11.	141.4	1.7	0.15	6000101200017
78.	90.	11.	136.5	1.94	0.17	6000101200018
78.	89.	11.	133.	2.02	0.18	6000101200019
85.	66.	8.	109.	1.53	0.14	6000101200020
85.	87.	11.	127.	2.18	0.2	6000101200021

ENDDATA 11  
 ENDSUBENT 24  
 SUBENT 60001013 750204  
 BIB 2 3  
 REACTION (39-Y-89(P,P5N)39-Y-84,CRO)  
 PART-DEF (39-Y-84,AR) HALF-LIFE 40MIN  
 ANNIHILATION RADIATION, 0.865 BETA+ PER DECAY

ENDBIB 3  
 NOCOMMON  
 DATA 3 3  

EN MEV	DATA MB	DATA-ERR MB	
66.	9.37	0.074	
78.	11.	2.2	
85.	24.	4.3	

ENDDATA 5  
 ENDSUBENT 13  
 ENENTRY 13



ENTRY	60002	750123	6000200000001
SUBENT	60002001	750123	6000200100001
BIB	12	16	6000200100002
TITLE	MEASUREMENT AND EQUILIBRIUM STATISTICAL-MODEL		6000200100003
	CALCULATION OF EXCITATION FUNCTIONS OF THE AU-197(A,XN)		6000200100004
	REACTIONS IN THE ENERGY RANGE FROM 16 TO 103 MEV		6000200100005
AUTHOR	(H. E. KURZ, E. W. JASPER, K. FISCHER, F. HERMES)		6000200100006
INSTITUTE	(ZGERBON)		6000200100007
REFERENCE	(J, NP/A, 168, 129, 71)		6000200100008
METHOD	(STTA, EXTB, CURVE)		6000200100009
FACILITY	(ISOCYC, ZGERKFK)		6000200100010
DETECTOR	(GEL I)		6000200100011
SAMPLE	(79-AU-197)		6000200100012
ERR-ANALYS	THE ERRORS ESTIMATED FOR THE CROSS SECTIONS ARE LESS		6000200100013
	THAN 10 PER CENT AND THOSE FOR THE ENERGY ARE LESS		6000200100014
	THAN 1 MEV		6000200100015
ANALYSIS	(GAR EA)		6000200100016
STATUS	(COMP)		6000200100017
HISTORY	(750127C)MZ		6000200100018
ENDBIE	16	0	6000200100019
NOCOMMON			6000200100020
ENCSUBENT	19	0	6000200199999
SUBENT	60002002	750123	6000200200001
BIB	2	3	6000200200002
REACTION	(79-AU-197(A,N)81-TL-200,CRO)		6000200200003
PART-DET	(81-TL-200,DG) HALF-LIFE 26.1HR		6000200200004
	368KEV PHOTONS, 0.904 PER DECAY		6000200200005
ENDBIE	3	0	6000200200006
NOCOMMON			6000200200007
DATA	2	10	6000200200008
EN	DATA		6000200200009
MEV	MB		6000200200010
	16.3	1.3	6000200200011
	18.6	7.9	6000200200012
	20.8	20.3	6000200200013
	22.9	23.5	6000200200014
	25.9	18.3	6000200200015
	28.5	10.8	6000200200016
	33.6	7.3	6000200200017
	36.7	5.4	6000200200018
	39.6	4.5	6000200200019
	42.5	3.3	6000200200020
ENDDATA	12		6000200200021
ENCSUBENT	20	0	6000200299999
SUBENT	60002003	750123	6000200300001
BIB	2	3	6000200300002
REACTION	(79-AU-197(A,2N)81-TL-199,CRO)		6000200300003
PART-DET	(81-TL-199,DG) HALF-LIFE 7.5HR		6000200300004
	208KEV PHOTONS, 0.119 PER DECAY		6000200300005
ENDBIE	3	0	6000200300006
NOCOMMON			6000200300007
DATA	2	15	6000200300008
EN	DATA		6000200300009
MEV	MB		6000200300010
	18.6	11.	6000200300011
	20.8	85.	6000200300012
	21.9	152.	6000200300013
	22.9	200.	6000200300014
	24.8	390.	6000200300015



DATA		2	10		6000200800012
EN	DATA				6000200800013
MEV	MB				6000200800014
	59.8	61.			6000200800015
	62.	266.			6000200800016
	64.	560.			6000200800017
	66.	672.			6000200800018
	68.	850.			6000200800019
	70.	943.			6000200800020
	73.7	828.			6000200800021
	79.3	608.			6000200800022
	82.7	500.			6000200800023
	86.1	374.			6000200800024
ENDDATA		12			6000200800025
ENDSUBENT		24	0		6000200899999
SUBENT	600020009		750123		6000200900001
BIB		2	4		6000200900002
REACTION	(79-AU-197(A,7N)81-TL-194M,CRO)				6000200900003
PART-DET	(81-TL-194M,DG) HALF LIFE 33MIN				6000200900004
			749KEV PHOTONS, 0.74 PER DECAY		6000200900005
			735KEV PHOTONS, 0.26 PER DECAY		6000200900006
ENDBIB		4	0		6000200900007
NOCOMMON					6000200900008
DATA		2	10		6000200900009
EN	DATA				6000200900010
MEV	MB				6000200900011
	73.7	68.			6000200900012
	77.5	181.			6000200900013
	81.	296.			6000200900014
	84.4	377.			6000200900015
	87.8	398.			6000200900016
	91.	413.			6000200900017
	94.2	423.			6000200900018
	97.3	321.			6000200900019
	100.3	315.			6000200900020
	103.3	286.			6000200900021
ENDDATA		12			6000200900022
ENDSUBENT		21	0		6000200999999
SUBENT	60002010		750123		6000201000001
BIB		3	6		6000201000002
REACTION	(79-AU-197(A,8N)81-TL-193,CRO)				6000201000003
PART-DET	(81-TL-193,DG) HALF-LIFE 23MIN				6000201000004
			325KEV PHOTONS, 0.13 PER DECAY		6000201000005
COMMENT	THE GAMMA-ABUNDANCE WAS ESTIMATED. THE ERRORS OF THE				6000201000006
	CROSS SECTIONS ARE THEREFORE PRESUMABLY LARGER THAN				6000201000007
	GIVEN IN ERR-ANALYS. (COMMENT BY THE COMPILER)				6000201000008
ENDBIB		6	0		6000201000009
NOCOMMON					6000201000010
DATA		2	6		6000201000011
EN	DATA				6000201000012
MEV	MB				6000201000013
	87.8	65.			6000201000014
	91.	161.			6000201000015
	94.2	252.			6000201000016
	97.3	286.			6000201000017
	100.3	295.			6000201000018
	103.3	271.			6000201000019
ENDDATA		8			6000201000020
ENDSUBENT		19	0		6000201099999

308KEV PHOTONS, 0.054 PER DECAY

ENDBIB		4	0	6000200600006
NOCOMMON				6000200600007
DATA		2	13	6000200600008
EN	DATA			6000200600009
MEV	MB			6000200600010
40.3	189.			6000200600011
43.	632.			6000200600012
45.7	1106.			6000200600013
50.7	1065.			6000200600014
53.	796.			6000200600015
55.2	581.			6000200600016
57.6	392.			6000200600017
59.8	275.			6000200600018
62.	197.			6000200600019
64.	157.			6000200600020
66.	135.			6000200600021
68.	122.			6000200600022
70.	114.			6000200600023
ENDDATA		15		6000200600024
ENDSUBENT		24	0	6000200600025
SUBENT	60002007		750123	6000200699999
BIB		2	5	6000200700001

REACTION (79-AU-197(A,5N)81-TL-196M + 81-TL-196G,CRO) 6000200700002

PART-DET (81-TL-196M,DG) HALF-LIFE 1.4HR 6000200700003

695KEV PHOTONS, 0.905 PER DECAY 6000200700004

(81-TL-196G,DG) HALF-LIFE 1.8HR 6000200700005

611KEV PHOTONS, 0.164 PER DECAY 6000200700006

ENDBIB		5	0	6000200700007
NOCOMMON				6000200700008
DATA		2	13	6000200700009
EN	DATA			6000200700010
MEV	MB			6000200700011
45.7	50.			6000200700012
50.7	261.			6000200700013
53.	540.			6000200700014
55.2	352.			6000200700015
57.6	1076.			6000200700016
59.8	1137.			6000200700017
62.	981.			6000200700018
64.	862.			6000200700019
66.	694.			6000200700020
68.	536.			6000200700021
70.	442.			6000200700022
79.3	226.			6000200700023
86.1	161.			6000200700024
ENDDATA		15		6000200700025
ENDSUBENT		25	0	6000200799999
SUBENT	60002008		750123	6000200800001
BIB		3	7	6000200800002

REACTION (79-AU-197(A,6N)81-TL-195,CRO) 6000200800003

PART-DET (81-TL-195,DG) HALF-LIFE 1.2H 6000200800004

562KEV PHOTONS, 0.083 PER DECAY 6000200800005

COMMENT THE GAMMA-ABUNDANCE IS AN ESTIMATED VALUE ONLY. THE 6000200800006

ERRORS OF THE CROSS SECTIONS ARE THEREFORE PRESUMABLY 6000200800007

HIGHER THAN STATED IN ERR-ANALYS. (COMMENT BY THE 6000200800008

COMPILER) 6000200800009

ENDBIB		7	0	6000200800010
NOCOMMON				6000200800011

25.9	396.			6000200300016
26.7	540.			6000200300017
28.5	654.			6000200300018
29.5	650.			6000200300019
32.9	450.			6000200300020
36.1	203.			6000200300021
39.1	167.			6000200300022
42.	71.			6000200300023
47.4	50.			6000200300024
52.4	37.5			6000200300025
ENDDATA		17		6000200300026
ENDSUBENT		25	0	6000200399999
SUBENT	60002004		750123	6000200400001
BIB		2	5	6000200400002
REACTION	(79-AU-197(A,3N)81-TL-198M + 81-TL-198G,CRO)			6000200400003
PART-DET	(81-TL-198M,DG) HALF-LIFE 1.9HR			6000200400004
	587KEV PHOTONS, 0.602 PER DECAY			6000200400005
	(81-TL-198G,DG) HALF-LIFE 5.3HR			6000200400006
	676KEV PHOTONS, 0.09 PER DECAY			6000200400007
ENDBIB		5	0	6000200400008
NOCOMMON				6000200400009
DATA		2	8	6000200400010
EN	DATA			6000200400011
MEV	MB			6000200400012
29.5	131.			6000200400013
32.9	546.			6000200400014
36.1	918.			6000200400015
39.1	1071.			6000200400016
42.	870.			6000200400017
47.4	410.			6000200400018
52.4	231.			6000200400019
61.5	130.			6000200400020
ENDDATA		10		6000200400021
ENDSUBENT		20	0	6000200499999
SUBENT	60002005		750123	6000200500001
BIB		2	3	6000200500002
REACTION	(79-AU-197(A,P 3N)80-HG-197M,CRO)			6000200500003
PART-DET	(80-HG-197M,DG) HALF-LIFE 23.8HR			6000200500004
	134KEV PHOTONS, 0.419 PER DECAY			6000200500005
ENDBIB		3	0	6000200500006
NOCOMMON				6000200500007
DATA		2	8	6000200500008
EN	DATA			6000200500009
MEV	MB			6000200500010
39.1	1.6			6000200500011
42.	3.2			6000200500012
44.8	6.7			6000200500013
49.9	23.1			6000200500014
59.3	58.9			6000200500015
67.8	66.2			6000200500016
77.4	63.1			6000200500017
86.2	52.6			6000200500018
ENDDATA		10		6000200500019
ENDSUBENT		18	0	6000200599999
SUBENT	60002006		750123	6000200600001
BIB		2	4	6000200600002
REACTION	(79-AU-197(A,4N)81-TL-197,CRO)			6000200600003
PART-DET	(81-TL-197,DG) HALF-LIFE 2.8HR			6000200600004
	152KEV PHOTONS, 0.11 PER DECAY			6000200600005

ALTER		
*COMMENT	1) ISO-QUANT, COMPD-QUANT AND NUC-QUANT IS NOT USED IN THE CASE OF CHARGED PARTICLE INDUCED REACTIONS. THESE KEY WORDS ARE REPLACED BY 'REACTION'.	300000020000381
*		300000020000032
*		300000020000033
*	2) 'PART=DET' IS OBLIGATORY, BECAUSE THE PARTICLE DETECTED IS IN GENERAL NOT OBVIOUS FROM 'REACTION'. THE DECAY PROPERTIES OF THE DETECTED PARTICLES SHOULD BE GIVEN.	300000020000034
*		300000020000035
*		300000020000036
*	3) THE HALF-LIFE OF THE DETECTED PARTICLE SHOULD BE GIVEN UNDER 'PART=DET' AND NOT UNDER 'HALF-LIFE'.	300000020000037
*		300000020000038
*		300000020000039
*	4) THE PRODUCT NUCLEUS SHOULD BE MENTIONED UNDER 'REACTION' AND/OR 'PART=DET' BUT NOT UNDER 'RESID-NUC'.	300000020000040
REACTION	KEYWORD + CODED INFORMATION IN PARENTHESES OBLIGATORY FOR CHARGED PARTICLE INDUCED REACTIONS. UP TO 6 SUBFIELDS (SF1(SF2,SF3)SF4,SF5,SF6) SF1 TARGET NUCLIDE Z-S-A(-MX) (SEE 'ISO-QUANT') SF2 PROJECTILE (SEE DICT 13) SF3 OUTGOING PARTICLE (SEE DICT 13) SF4 PRODUCT NUCLIDE Z-S-A(-MX) (SEE 'ISO-QUANT') SF5 QUANTITY MEASURED (SEE DICT 10) SF6 MODIFIER (SEE DICT 12) SF1,SF2,SF3,SF4 AND SF5 OBLIGATORY. A FREE TEXT EXPLANATION HAS TO BE ADDED, IF ONE OR MORE OF THESE SUBFIELDS ARE BLANK. SUBFIELD 6 IS OPTIONAL THE RULES FOR COMBINATIONS OF DIFFERENT OUTGOING PARTICLES OR PRODUCT NUCLIDES ARE SIMILAR TO THE RULES APPLICABLE IN 'ISO-QUANT'. IF SF5 OR SF6 CONTAINS MORE THAN ONE CODE A SLASH IS USED FOR SEPARATION KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. CODED INFORMATION (UP TO 5 SUBFIELDS) AND FREE TEXT. SF1 TO SF4 REACTION USED AS MONITOR NOTATION AS GIVEN IN 'REACTION' SF1 TO SF4. SF5 TYPE OF DATA USED FOR MONITORING (SEE DICT 10) SF1 TO SF4 ARE OBLIGATORY, SF5 OPTIONAL.	300000020000041
	(CROSS SECTION) CROSS SECTION FOR THE FORMATION OF THE SPECIFIED PRODUCT NUCLIDE OR THE SPECIFIED REACTION- TYPE (X,Y).	300000100000121
MONITOR	(THICK-TARGET-YIELD) THICK-TARGET-YIELD FOR THE SPECIFIED PRODUCT NUCLIDE	30000010000002
	(FISSION CROSS SECTION)	30000010000003
	(FISSION YIELD) INDEPENDENT, CUMULATIVE AND ISOBARIC CHAIN YIELD SEE MODIFIER (DICT 12)	30000010000004
		30000010000005
		30000010000006
		30000010000007
		30000010000008
XR	(X-RAYS)	300000130000171
COMPLEX	(UNDEFINED OUTGOING PARTICLES) IF THE AUTHOR DOES NOT STATE THE KIND AND NUMBER OF THE OUTGOING PARTICLES IN CHARGED PARTICLE INDUCED REACTIONS OR IF AMBIGUITY EXISTS IN RESPECT TO THE REACTION TYPES INVOLVED	300000130000261
		30000013000002
		30000013000003
		30000013000004
COMP	DATA OBTAINED FROM PUBLICATION BY THE COMPILER, CHECKED, BUT NOT APPROVED BY THE AUTHOR	300000160000331
		30000016000002
CURVE	TABULAR DATA OBTAINED FROM A CURVE WITH A DATA-POINT READER	30000016000003
		30000016000004
HILAC	(HEAVY ION LINEAR ACCELERATOR)	300000180000061
ISOCYC	(ISOCRONOUS-CYCLOTRON)	300000180000081
SYNCYC	(SYNCHROCYCLOTRON)	300000180000091
REC	(CROSS SECTIONS OR YIELDS DETERMINED BY THE COLLECTION OF RECOILS)	300000210000151
		30000021000002
DIDI	(RANGE OF RECOILS MEASURED WITH THICK-TARGET-THICK-CATCHER-ARRANGEMENT)	30000021000003
		30000021000004
DIDU	(RANGE OF RECOILS MEASURED WITH THICK-TARGET-THINN-	30000021000005

DUCI	CATCHER-ARRANGEMENT)	30000021000006
	(RANGE OF RECCILS MEASURED WITH THINN-TARGET-THICK-	30000021000007
DUDU	CATCHER-ARRANGEMENT)	30000021000008
	(RANGE OF RECCILS MEASURED WITH THINN-TARGET-THINN-	30000021000009
HEJET	CATCHER-ARRANGEMENT)	30000021000010
CHSEP	(COLLECTION BY HE-JET)	30000021000011
ASEP	(CHEMICAL SEPARATION)	30000021000012
SITA	(SEPARATION BY MASS SEPARATOR)	30000021000013
STTA	(SINGLE TARGET IRRADIATIONS)	30000021000014
INTB	(STACKED TARGET IRRADIATIONS)	30000021000015
EXTB	(IRRADIATIONS WITH INTERNAL BEAM)	30000021000016
EDEG	(IRRADIATIONS WITH EXTERNAL BEAM)	30000021000017
	(ENERGY-DEGRADATION BY FOILS) ENERGY-DEGRADATION OF THE	30000021000018
	BEAM BEFORE HITTING THE TARGET ARRANGEMENT	30000021000019
MONSEP	(SEPARATE MONITORFOIL)	30000021000020
MONMIX	(MIXED MONITOR) MONITOR AND TARGET COMBINED AS CHEMICAL	30000021000021
	COMPOUND OR MIXTURE OR MONITOR REACTION HAS THE SAME	30000021000022
	TARGET NUCLIDE AS THE REACTION GIVEN UNDER 'REACTION'.	30000021000023
SCINT	(BEAM CURRENT INTEGRATED) CODEWORD USED ONLY IF VALUES	30000021000024
	GIVEN IN THE DATA SECTION ARE BASED ON THIS	30000021000025
	MEASUREMENT	30000021000026
GEMUC	(GEIGER MUELLER COUNTER)	30000022000011
SI	(SI-SOLID-STATE DETECTOR)	30000022000041
*COMMENT	'SCIN' SHOULD BE USED FOR SOLID SCINTILLATION COUNTER,	30000022000091
*	LIKE NAJ, ONLY.	30000022000002
LISCIN	(LIQUID SCINTILLATION COUNTER)	30000022000003
ARCOI	(ANNIHILATION RADIATION COINCIDENCE COUNTER)	30000022000181
GAREA	(PHOTOPEAK-AREA ANALYSIS)	30000023000021
INTANG	(INTEGRATION OF ANGULAR DISTRIBUTION)	30000023000061
*COMMENT	THE MEANING OF THE CODE 'EN' SHOULD BE EXTENDED TO	30000024000011
*	'ENERGY OF INCIDENT PROJECTILE, LAB-SYSTEM'. THIS	30000024000002
*	EXTENSION SHOULD ALSO APPLY TO THE OTHER CODEWORDS,	30000024000003
*	WHICH CONTAIN 'EN', LIKE 'EN-CM'.	30000024000004
MISC3	THIRD MISCELLANEOUS COLUMN -IF MORE THAN ONE IS GIVEN	30000024001381
	SAME USAGE AS -MISC-(SEE ABOVE)	30000024000002
MISC4	FOURTH MISCELLANEOUS COLUMN -IF MORE THAN ONE IS GIVEN	30000024000003
	SAME USAGE AS -MISC-(SEE ABOVE)	30000024000004
ENCALTER		00000000

NUMBER OF RECORDS CHANGED = 0  
NUMBER OF RECORDS DELETED = 0  
NUMBER OF RECORDS INSERTED = 95  
NUMBER OF RECORDS OBSOLETE = 0  
NUMBER OF RECORDS EXTINGUISHED = 0

DICTION	1	700703	SYSTEM-IDENTIFIERS	3000000100001
ENDDICTION	45			3000000199999
DICTION	2	750209	INFORMATION IDENTIFIER KEYWORDS	30000002000010
TITLE			KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. FREE TEXT ONLY.	3000000200002
AUTHOR			KEYWORD + ALL NAMES IN PARENTHESES OBLIGATORY.	3000000200003
INSTITUTE			KEYWORD + CODED INFORMATION IN PARENTHESES OBLIGATORY. SEE DICTIONARY 3 FOR INSTITUTES.	3000000200004
EXP-YEAR			KEYWORD OPTIONAL. IF KEYWORD PRESENT, THEN TWO DIGIT YEAR IN PARENTHESES OBLIGATORY.	3000000200005
REFERENCE			KEYWORD + CODED INFORMATION IN PARENTHESES OBLIGATORY. UP TO 6 SUBFIELDS IN CODE. SEE DICTIONARY 4 FOR REFERENCE-TYPE SEE DICTIONARY 5 FOR JOURNALS SEE DICTIONARY 6 FOR REPORTS SEE DICTIONARY 7 FOR CONFERENCES AND BOOKS	3000000200006
ISC-QUANT			KEYWORD + CODED INFORMATION IN PARENTHESES OBLIGATORY. ISO-QUANT MAY BE REPLACED BY CMPD-QUANT OR NUC-QUANT. UP TO 5 SUBFIELDS IN CODE. THE ISOTOPE IS GIVEN IN THE FIRST SUBFIELD IN THE FORM (Z-S-A) IF IT IS IN GROUND-STATE, RESPECTIVELY (Z-S-A-M1) IF IT IS IN THE FIRST OR (Z-S-A-M2) IF IN THE SECOND METASTABLE STATE. (Z-S-A-M) IF IT IS IN A METASTABLE STATE AND UN- CERTAIN WHETHER FIRST OR SECOND ETC. SEE DICTIONARY 8 FOR ELEMENT-SYMBOLS SEE DICTIONARY 10 FOR PROCESS/PARAMETER SEE DICTIONARY 11 FOR FUNCTION SEE DICTIONARY 12 FOR MODIFIER SEE DICTIONARY 13 FOR PARTICLE SEE DICTIONARY 14 FOR QUANTITY	3000000200007
CMPD-QUANT			REPLACES ISC-QUANT WHEN QUANTITY GIVEN REFERS TO A CHEMICAL COMPOUND. CODED INFORMATION IN PARENTHESES OBLIGATORY. CODING FORMALISM SAME AS UNDER ISO-QUANT, BUT A-NUMBER REPLACED BY 3-CHARACTER COMPOUND CODE. SEE DICTIONARY 9 FOR COMPOUNDS	3000000200008
NUC-QUANT			REPLACES ISC-QUANT WHEN QUANTITY GIVEN DOES NOT REFER TO THE NEUTRON-TARGET NUCLEUS. CODED INFORMATION IN PARENTHESES OBLIGATORY. CODING-FORMALISM SAME AS UNDER ISO-QUANT.	3000000200009
*COMMENT	1)		ISO-QUANT, CMPD-QUANT AND NUC-QUANT IS NOT USED IN THE CASE OF CHARGED PARTICLE INDUCED REACTIONS. THESE KEY WORDS ARE REPLACED BY 'REACTION'.	3000000200010
*	2)		'PART-DET' IS OBLIGATORY, BECAUSE THE PARTICLE DETECTED IS IN GENERAL NOT OBVIOUS FROM 'REACTION'. THE DECAY PROPERTIES OF THE DETECTED PARTICLES SHOULD BE GIVEN.	3000000200011
*	3)		THE HALF-LIFE OF THE DETECTED PARTICLE SHOULD BE GIVEN UNDER 'PART-DET' AND NOT UNDER 'HALF-LIFE'.	3000000200012
*	4)		THE PRODUCT NUCLEUS SHOULD BE MENTIONED UNDER 'REACTION' AND/OR 'PART-DET' BUT NOT UNDER 'RESID-NUC'.	3000000200013
REACTION			KEYWORD + CODED INFORMATION IN PARENTHESES OBLIGATORY FOR CHARGED PARTICLE INDUCED REACTIONS. UP TO 6 SUBFIELDS (SF1(SF2,SF3)SF4,SF5,SF6) SF1 TARGET NUCLIDE Z-S-A(-MX) (SEE 'ISO-QUANT') SF2 PROJECTILE (SEE DICT 13) SF3 OUTGOING PARTICLE (SEE DICT 13) SF4 PRODUCT NUCLIDE Z-S-A(-MX) (SEE 'ISO-QUANT') SF5 QUANTITY MEASURED (SEE DICT 14) SF6 MODIFIER (SEE DICT 12)	3000000200014
				3000000200015
				3000000200016
				3000000200017
				3000000200018
				3000000200019
				3000000200020
				3000000200021
				3000000200022
				3000000200023
				3000000200024
				3000000200025
				3000000200026
				3000000200027
				3000000200028
				3000000200029
				3000000200030
				3000000200031
				3000000200032
				3000000200033
				3000000200034
				3000000200035
				3000000200036
				3000000200037
				3000000200038
				3000000200039I
				3000000200040I
				3000000200041I
				3000000200042I
				3000000200043I
				3000000200044I
				3000000200045I
				3000000200046I
				3000000200047I
				3000000200048I
				3000000200049I
				3000000200050I
				3000000200051I
				3000000200052I
				3000000200053I
				3000000200054I
				3000000200055I
				3000000200056I
				3000000200057I



	SF1,SF2,SF3,SF4 AND SF5 OBLIGATORY. A FREE TEXT EXPLANATION HAS TO BE ADDED, IF ONE OR MORE OF THESE SUBFIELDS ARE BLANK.	3000000200058I
	SUBFIELD 6 IS OPTIONAL	3000000200059I
	THE RULES FOR COMBINATIONS OF DIFFERENT OUTGOING PARTICLES OR PRODUCT NUCLIDES ARE SIMILAR TO THE RULES APPLICABLE IN 'ISO-QUANT'. IF SF5 OR SF6 CONTAINS MORE THAN ONE CODE A SLASH IS USED FOR SEPARATION	3000000200060I
STANDARD	KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. FREE TEXT OR CODED INFORMATION IN PARENTHESES PLUS POSSIBLY FREE TEXT. CODING FORMALISM SAME AS UNDER ISO-QUANT.	3000000200061I
MONITOR	KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. CODED INFORMATION (UP TO 5 SUBFIELDS) AND FREE TEXT.	3000000200062I
	SF1 TO SF4 REACTION USED AS MONITOR NOTATION AS GIVEN IN 'REACTION' SF1 TO SF4.	3000000200063I
	SF5 TYPE OF DATA USED FOR MONITORING (SEE DICT 10) SF1 TO SF4 ARE OBLIGATORY, SF5 OPTIONAL.	3000000200064I
	-----	3000000200065I
	'METHOD', 'FACILITY', 'DETECTOR', 'ANALYSIS'.	3000000200066I
	AT LEAST ONE OF THESE KEYWORDS MUST BE PRESENT. IF A PERTINENT CODE IN THE RELEVANT DICTIONARY EXISTS, THEN KEYWORD AND CODE SHOULD BE GIVEN.	3000000200067I
METHOD	KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. FREE TEXT OR CODED INFORMATION IN PARENTHESES PLUS FREE TEXT. SEE DICTIONARY 21	3000000200068I
FACILITY	KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. FREE TEXT OR CODED INFORMATION IN PARENTHESES PLUS FREE TEXT. SEE DICTIONARY 18	3000000200069I
DETECTOR	KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. FREE TEXT OR CODED INFORMATION IN PARENTHESES PLUS FREE TEXT. SEE DICTIONARY 22	3000000200070I
ANALYSIS	KEYWORD OBLIGATORY EXCEPT WHEN NOT RELEVANT. FREE TEXT OR CODED INFORMATION IN PARENTHESES PLUS FREE TEXT. SEE DICTIONARY 23	3000000200071I
	-----	3000000200072I
N-SOURCE	KEYWORD OPTIONAL. FREE TEXT OR CODED INFORMATION IN PARENTHESES PLUS FREE TEXT. SEE DICTIONARY 19	3000000200073I
INC-SPECT	KEYWORD OPTIONAL. FREE TEXT ONLY.	3000000200074I
SAMPLE	KEYWORD OPTIONAL. FREE TEXT ONLY.	3000000200075I
GEOMETRY	OBSOLETE. (MAY EXIST IN ENTRIES FROM 1972 OR EARLIER)	3000000200076I
PART-DET	THE PARTICLE DETECTED MUST BE EVIDENT EITHER FROM 'ISO-QUANT' OR FROM 'PART-DET'. IF KEYWORD PRESENT, THEN CODED INFORMATION IN PARENTHESES OBLIGATORY. SEE DICTIONARY 13	3000000200077I
EN-SEC	KEYWORD OPTIONAL. FREE TEXT ONLY.	3000000200078I
RESID-NUC	KEYWORD OPTIONAL. FREE TEXT ONLY.	3000000200079I
CORRECTION	KEYWORD OPTIONAL. FREE TEXT ONLY	3000000200080I
ERR-ANALYS	KEYWORD OBLIGATORY. FREE TEXT OR HEADING OF RELEVANT ERROR-COLUMN IN PARENTHESES PLUS FREE TEXT	3000000200081I
COMMENT	KEYWORD OPTIONAL. FREE TEXT ONLY	3000000200082I
HALF-LIFE	KEYWORD OPTIONAL TO EXPLAIN HALF-LIVES GIVEN IN COMMON OR DATA. FREE TEXT OR (HL1,Z-S-A-M) WITH OR WITHOUT FREE TEXT.	3000000200083I
MISC-COL	KEYWORD OPTIONAL. IF KEYWORD PRESENT THEN COLUMN-HEADING 'MISC', 'MISC1' OR 'MISC2' ETC. IN PARENTHESES IS OBLIGATORY.	3000000200084I
FLAG	KEYWORD OPTIONAL. IF KEYWORD PRESENT THEN THE FLAG NUMBER IN PARENTHESES IS OBLIGATORY.	3000000200085I
TABLE-NR	KEYWORD OPTIONAL. IF KEYWORD PRESENT THEN THE TABLE-	3000000200086I

STATUS	NUMBER IN PARENTHESES IS OBLIGATORY.	3000000200118	
HISTORY	KEYWORD OBLIGATORY EXCEPT WHEN THE SOURCE OF THE DATA IS GIVEN UNDER 'REFERENCE' AND NO OTHER 'STATUS' INFORMATION APPLIES. CODE FROM DICT 16 IN PARENTHESES PLUS FREE TEXT. FREE TEXT ALONE IF NO CODE APPLIES.	3000000200119	
	KEYWORD + CODED INFORMATION IN PARENTHESES OBLIGATORY GIVING A DATE IN THE FORM YYMMDD PLUS A ONE CHARACTER ACTION-CODE. THE DATE IS OBLIGATORY, THE ACTION-CODE IS OPTIONAL. THE ALLOWED ACTION-CODES ARE FOLLOWING	3000000200120	
	R - DATA RECEIVED AT THE CENTRE	3000000200121	
	C - COMPILED AT THE CENTRE	3000000200122	
	L - ENTERED INTO LIBRARY	3000000200123	
	T - CONVERTED FROM PREVIOUS COMPILATION	3000000200124	
	E - TRANSMITTED TO OTHER CENTRES	3000000200125	
	A - IMPORTANT ALTERATIONS	3000000200126	
	U - UNIMPORTANT ALTERATIONS	3000000200127	
	D - ENTRY OR SUBENTRY DELETED. THIS MUST BE FOLLOWED BY FREE TEXT JUSTIFYING THE DELETION	3000000200128	
ENDDICTION	134	3000000200129	
DICTION	3	740418 INSTITUTES	3000000200130
ENDDICTION	745		3000000200131
DICTION	4	700109 TYPE OF REFERENCE	3000000200132
ENDDICTION	7		3000000200133
DICTION	5	740418 JOURNALS	3000000200134
ENDDICTION	525		3000000200135
DICTION	6	740418	3000000299999
ENDDICTION	462		3000000300001
DICTION	7	740418 BOOKS AND CONFERENCES	3000000399999
ENDDICTION	632		3000000400001
DICTION	8	730426 ELEMENTS	3000000499999
ENDDICTION	105		3000000500001
DICTION	9	731023 COMPOUNDS	3000000599999
ENDDICTION	31		3000000600001
DICTION	13	750209 QUANT-FIELD 1 (PROCESSES+PARAMS)	3000000699999
TOT	TOTAL		3000000700001
			3000000799999
EL	ELASTIC SCATTERING		3000000800001
INL	INELASTIC SCATTERING		3000000899999
THS	THERMAL SCATTERING		3000000900001
SCT	TOTAL SCATTERING		3000000999999
BAA	BOUND-ATOM SCATTERING		3000001000001
FAS	FREE ATOM SCATTERING		3000001000002
COH	COHERENT SCATTERING		3000001000003
INC	INCOHERENT SCATTERING		3000001000004
RAD	SCATTERING RADIUS		3000001000005
CRG	(CROSS SECTION) CROSS SECTION FOR THE FORMATION OF THE SPECIFIED PRODUCT NUCLIDE OR THE SPECIFIED REACTION-TYPE (X,Y).		3000001000006
TTY	(THICK-TARGET-YIELD) THICK-TARGET-YIELD FOR THE SPECIFIED PRODUCT NUCLIDE		3000001000007
FCR	(FISSION CROSS SECTION)		3000001000008
FY	(FISSION YIELD) INDEPENDENT, CUMULATIVE AND ISOBARIC CHAIN YIELD SEE MODIFIER (DICT 12)		3000001000009
			3000001000010
NON	NONELASTIC		3000001000011
ABS	ABSORPTION		3000001000012
			3000001000013
NG	N, GAMMA		3000001000014
ING	INELASTIC GAMMA		3000001000015
GEM	GAMMA-EMISSION		3000001000016
			3000001000017
			3000001000018
			3000001000019
			3000001000020
			3000001000021
			3000001000022
			3000001000023
			3000001000024
			3000001000025
			3000001000026
			3000001000027

T	(TRITONS)	3000001300006
HE3	(HE-3)	3000001300007
A	(ALPHAS) HE-4	3000001300008
FF	(FISSION FRAGMENTS)	3000001300009
	-----	3000001300010
	ABOVE CODES ARE USED IN THE FOURTH QUANTITY SUBFIELD	3000001300011
	AND UNDER 'PART-DET'.	3000001300012
	THE CODES BELOW ARE USED ONLY UNDER 'PART-DET'.	3000001300013
	-----	3000001300014
DG	(DECAY GAMMAS) USED FOR GAMMAS EMITTED FROM METASTABLE STATES AND FOR GAMMAS FOLLOWING A PARTICLE-EMITTING DECAY (E.G. BETA DECAY)	3000001300015
		3000001300016
		3000001300017
XR	(X-RAYS)	3000001300018
AR	(ANNIHILATION RADIATION)	3000001300019
B-	(DECAY BETA-)	3000001300020
B	(DECAY BETAS) UNSPECIFIED WHETHER B+ OR B-	3000001300021
B+	(DECAY BETA+) POSITRONS	3000001300022
E	(ELECTRONS) OTHER THAN DECAY BETAS	3000001300023
RCL	(RECOIL NUCLEUS)	3000001300024
RSD	(RESIDUAL NUCLEUS)	3000001300025
PN	(PROMPT NEUTRONS)	3000001300026
DN	(DELAYED NEUTRONS)	3000001300027
COMPLEX	(UNDEFINED OUTGOING PARTICLES) IF THE AUTHOR DOES NOT STATE THE KIND AND NUMBER OF THE OUTGOING PARTICLES IN CHARGED PARTICLE INDUCED REACTIONS OR IF AMBIGUITY EXISTS IN RESPECT TO THE REACTION TYPES INVOLVED	3000001300028
	(NO INFORMATION AVAILABLE)	3000001300029
NONE		3000001300030
ENDDICTION	31	3000001399999
DICTION	14	740418 QUANTITIES
ENDDICTION	443	
DICTION	16	750209 STATUS
PRELM	(PRELIMINARY DATA) DATA LABELLED BY AUTHOR AS PRELIMINARY	3000001600002
	FREE TEXT= AUTHOR'S INFORMATION ABOUT FINALIZING THE DATA.	3000001600003
	ALSO TO BE USED FOR 'DATA NOT TO BE QUOTED PRIOR TO PUBLICATION'.	3000001600004
		3000001600005
		3000001600006
SPSDD	(DATA SUPERSEDED) DATA SUPERSEDED BY AUTHOR'S REVISION, AND REVISED DATA ENTERED IN LIBRARY.	3000001600007
	FREE TEXT= CROSS-REFERENCE TO SUPERSEDING DATA TABLE	3000001600008
		3000001600009
DEP	(DEPENDENT DATA)	3000001600010
	FREE TEXT= CROSS-REFERENCE TO THE INDEPENDENT DATA FROM WHICH DEPENDENT DATA WERE OBTAINED.	3000001600011
	EXAMPLE= GAMMA-WIDTH WHEN OBTAINED BY SUBTRACTION FROM INDEPENDENTLY MEASURED TOTAL-WIDTHS AND NEUTRON-WIDTHS.	3000001600012
		3000001600013
		3000001600014
		3000001600015
APRVD	(APPROVED BY AUTHOR) PROOF-COPY WAS APPROVED BY AUTHOR AND AUTHOR'S CORRECTIONS HAVE BEEN ENTERED.	3000001600016
	FREE TEXT= NAME AND DATE OF APPROVAL	3000001600017
		3000001600018
UNOBT	(DATA UNOBTAINABLE FROM AUTHOR)	3000001600019
	FREE TEXT= EXPLANATION WHY UNOBTAINABLE	3000001600020
SCSRS	(DATA CONVERTED FROM SCISRS=1) STATUS INFORMATION IS INCOMPLETE DUE TO AUTOMATIC CONVERSION FROM SCISRS=1	3000001600021
		3000001600022
OUTDT	(NORMALIZATION OUT-OF-DATE)	3000001600023
	FREE TEXT= REASON OR CROSS-REFERENCE TO RENORMALIZED DATA TABLE	3000001600024
		3000001600025
RNORM	(DATA RENORMALIZED) DATA RENORMALIZED BY OTHER THAN AUTHOR.	3000001600026
	FREE TEXT= EXPLANATION OF RENORMALIZATION AND CROSS-REFERENCE TO AUTHOR'S ORIGINAL DATA.	3000001600027
		3000001600028
	NOTE= ONLY TO BE USED FOR NON-TRIVIAL RENORMALIZATION	3000001600029
		3000001600030

N2N	N, 2N		3000001000028
N3N	N, 3N		3000001000029
N4N	N, 4N		3000001000030
NEM	NEUTRON-EMISSION		3000001000031
NPR	NEUTRON-PRODUCTION		3000001000032
-----			
NP	N, P		3000001000033
NNP	N, NP		3000001000034
N2P	N, 2P		3000001000035
PEM	PROTON-EMISSION		3000001000036
ND	N, D		3000001000038
NND	N, ND		3000001000039
NT	N, T		3000001000040
NNT	N, NT		3000001000041
N3	N, HE3		3000001000042
NN3	N, NHE3		3000001000043
NA	N, ALPHA		3000001000044
NNA	N, NALPHA		3000001000045
N2A	N, 2ALPHA		3000001000046
AEM	ALPHA-EMISSION		3000001000047
NX	CHARGED-PARTICLES EMISSION		3000001000048
-----			
NF	N, FISSION		3000001000049
ALF	ALPHA		3000001000050
ETA	ETA		3000001000051
NU	NU		3000001000053
-----			
PCS	PEAK CROSS-SECTION AT RESONANCE		3000001000054
WID	RESONANCE-WIDTH		3000001000055
ARE	RESONANCE AREA		3000001000056
STF	STRENGTH-FUNCTION		3000001000057
D	AVERAGE LEVEL-SPACING		3000001000058
EN	ENERGY (SPECIAL USE FOR EN, RES = RESONANCE ENERGY)		3000001000059
J	SPIN J OF RESONANCES, STRENGTH-FUNCTIONS, ETC.		3000001000060
PTY	PARITY OF RESONANCE		3000001000061
L	ANGULAR MOMENTUM L OF RESONANCES, STRENGTH-FUNCTIONS ETC		3000001000062
G	STATISTICAL-WEIGHT FACTOR		3000001000063
-----			
ADL	ADLER-ADLER NU(EQUIVALENT TO HALF TOTAL WIDTH)		3000001000064
ACT	ADLER-ADLER TOTAL SYMMETRY COEFFICIENT		3000001000065
AHT	ADLER-ADLER TOTAL ASYMMETRY COEFFICIENT		3000001000066
AGC	ADLER-ADLER CAPTURE SYMMETRY COEFFICIENT		3000001000067
AHC	ADLER-ADLER CAPTURE ASYMMETRY COEFFICIENT		3000001000068
AGF	ADLER-ADLER FISSION SYMMETRY COEFFICIENT		3000001000069
AHF	ADLER-ADLER FISSION ASYMMETRY COEFFICIENT		3000001000070
-----			
LDP	LEVEL-DENSITY PARAMETER		3000001000071
TEM	NUCLEAR TEMPERATURE		3000001000072
SCO	SPIN-CUT-OFF FACTOR		3000001000073
SF	SPONTANEOUS FISSION		3000001000074
ENDDICTION	76		3000001099999C
DICTION	11	730717 QUANT=FIELD 2 (FUNCTION)	3000001100001
ENDDICTION	22		3000001199999
DICTION	12	730717 QUANT=FIELD 3 (MODIFIERS)	3000001200001
ENDDICTION	59		3000001299999
DICTION	13	750209 PARTICLES	3000001300001C
G	(GAMMAS) EXCEPT DECAY GAMMAS		3000001300002
N	(NEUTRONS)		3000001300003
P	(PROTONS)		3000001300004
D	(DEUTERONS)		3000001300005

BY AN EVALUATOR. COMPILATION CENTRES SHOULD  
 GENERALLY STORE THE AUTHOR'S ORIGINAL  
 NORMALIZATION.

COMP DATA OBTAINED FROM PUBLICATION BY THE COMPILER,  
 CHECKED, BUT NOT APPROVED BY THE AUTHOR  
 CURVE TABULAR DATA OBTAINED FROM A CURVE WITH A DATA-POINT  
 READER

ENDDICTION	36			3000001600031
DICTION	18	753209	FACILITY	3000001600032
CCW			(COCKROFT-WALTON ACCELERATOR)	3000001600033
LINAC			(ELECTRON LINEAR ACCELERATOR)	3000001600034I
ICTR			(INSULATED CORE TRANSFORMER ACCELERATOR)	3000001600035I
VDC			(VAN DE GRAAFF)	3000001600036I
VDCG			(TANDEM VAN DE GRAAFF)	3000001600037I
HILAC			(HEAVY ION LINEAR ACCELERATOR)	3000001699990
CYGFF			(CYCLOGRAFF)	3000001800001C
CYCLO			(CYCLOTRON)	3000001800002
ISOCYC			(ISOCRONOUS-CYCLOTRON)	3000001800003
SYNCH			(SYNCHROTRON)	3000001800004
SYNCRY			(SYNCHROCYCLOTRON)	3000001800005
BET			(BETATRON)	3000001800006
MICR			(MICROTRON)	3000001800007I
DYNAM			(DYNAMITRON)	3000001800008
OSCIP			(PILE OSCILLATOR)	3000001800009
CHCPF			(FAST CHOPPER)	3000001800010I
CHCPS			(SLOW CHOPPER)	3000001800011
SELVE			(VELOCITY SELECTOR)	3000001800012I
SPECM			(MASS SPECTROMETER)	3000001800013
SPECD			(DOUBLE MASS SPECTROMETER)	3000001800014
SPECC			(CRYSTAL SPECTROMETER)	3000001800015
ENDDICTION	21			3000001800016
DICTION	19	730426	NEUTRON SOURCE	3000001800017
ENDDICTION	21			3000001800018
DICTION	21	753209	METHOD	3000001800019
COINC			(COINCIDENCE)	3000001800020
PHD			(PULSE-HEIGHT DISCRIMINATION)	3000001800021
DIFFR			(DIFFRACTION)	3000001800022
REFL			(TOTAL REFLECTION FROM MIRRORS)	3000001899990
MAGFR			(MAGNETIC FIELD ROTATION)	3000001900001
TIME			(TIME-OF-FLIGHT)	3000001999999
SLODT			(SLOWING-DOWN-TIME)	3000002100001C
CADMB			(CADMIUM BATH)	3000002100002
MANGB			(MANGANESE BATH)	3000002100003
ACTIV			(ACTIVATION)	3000002100004
REAC			(REACTIVITY MEASUREMENT)	3000002100005
BURN			(BURN-UP)	3000002100006
ASSOP			(ASSOCIATED PARTICLE)	3000002100007
PLSED			(PULSE DIE-AWAY)	3000002100008
REC			(CROSS SECTIONS OR YIELDS DETERMINED BY THE COLLECTION OF RECOILS)	3000002100009
RIDI			(RANGE OF RECOILS MEASURED WITH THICK-TARGET-THICK- CATCHER-ARRANGEMENT)	3000002100010
RIDU			(RANGE OF RECOILS MEASURED WITH THICK-TARGET-THINN- CATCHER-ARRANGEMENT)	3000002100011
RODI			(RANGE OF RECOILS MEASURED WITH THINN-TARGET-THICK- CATCHER-ARRANGEMENT)	3000002100012
RODU			(RANGE OF RECOILS MEASURED WITH THINN-TARGET-THINN- CATCHER-ARRANGEMENT)	3000002100013
HEJET			(COLLECTION BY HE-JET)	3000002100014
CHSEP			(CHEMICAL SEPARATION)	3000002100015
				3000002100016I
				3000002100017I
				3000002100018I
				3000002100019I
				3000002100020I
				3000002100021I
				3000002100022I
				3000002100023I
				3000002100024I
				3000002100025I
				3000002100026I
				3000002100027I

ASEP	(SEPARATION BY MASS SEPARATOR)	3000002100028I
SITA	(SINGLE TARGET IRRADIATIONS)	3000002100029I
STTA	(STACKED TARGET IRRADIATIONS)	3000002100030I
INTR	(IRRADIATIONS WITH INTERNAL BEAM)	3000002100031I
EXTB	(IRRADIATIONS WITH EXTERNAL BEAM)	3000002100032I
EDEG	(ENERGY-DEGRADATION BY FCILS) ENERGY-DEGRADATION OF THE BEAM BEFORE HITTING THE TARGET ARRANGEMENT	3000002100033I
MONSEP	(SEPARATE MONITORFOIL)	3000002100034I
MONMIX	(MIXED MONITOR) MONITOR AND TARGET COMBINED AS CHEMICAL COMPOUND OR MIXTURE OR MONITOR REACTION HAS THE SAME TARGET NUCLIDE AS THE REACTION GIVEN UNDER 'REACTION'.	3000002100035I
BCINT	(BEAM CURRENT INTEGRATED) CODEWORD USED ONLY IF VALUES GIVEN IN THE DATA SECTION ARE BASED ON THIS MEASUREMENT.	3000002100036I
ENDDICTION	40	3000002199999C
DICTION	22 750209 DETECTORS	3000002200001C
GEMUC	(GEIGER MUELLER COUNTER)	3000002200002I
GLASD	(GLASS DETECTOR)	3000002200003
TRD	(TRACK DETECTOR) ALL WHICH ARE NOT GLASS	3000002200004
SOLST	(SOLID-STATE DETECTOR)	3000002200005
SID	(SI-SOLID-STATE DETECTOR)	3000002200006I
GE	(GERMANIUM-LITHIUM DETECTOR)	3000002200007
THRES	(THRESHOLD DETECTOR)	3000002200008
MOXR	(MOXON-RAE DETECTOR)	3000002200009
HORBU	(HORNYAK BUTTON DETECTOR)	3000002200010
SCIN	(SCINTILLATION DETECTOR)	3000002200011
*COMMENT	'SCIN' SHOULD BE USED FOR SOLID SCINTILLATION COUNTER, LIKE NAJ, ONLY.	3000002200012I
*LISCIN	(LIQUID SCINTILLATION COUNTER)	3000002200013I
STANK	(SCINTILLATOR TANK)	3000002200015
MTANK	(MODERATING TANK DETECTOR)	3000002200016
CSICR	(CESIUM-IODIDE CRYSTAL)	3000002200017
NAICR	(SODIUM-IODIDE CRYSTAL)	3000002200018
LONGC	(LONG COUNTER)	3000002200019
PROPC	(PROPORTIONAL COUNTER)	3000002200020
TELES	(COUNTER TELESCOPE)	3000002200021
FISCH	(FISSION CHAMBER)	3000002200022
BPAIR	(ELECTRON-PAIR SPECTROMETER) FOR GAMMAS	3000002200023
ARCOI	(ANNIHILATION RADIATION COINCIDENCE COUNTER)	3000002200024I
ENDDICTION	23	3000002299999C
DICTION	23 750209 ANALYSIS	3000002300001C
AREA	(AREA ANALYSIS)	3000002300002
GAREA	(PHOTOPEAK-AREA ANALYSIS)	3000002300003I
SHAPE	(SHAPE ANALYSIS)	3000002300004
4PIA	(4PI TIMES DIFFERENTIAL CROSS-SECTION AT ONE ANGLE)	3000002300005
SLA	(SINGLE LEVEL ANALYSIS)	3000002300006
MLA	(MULTILEVEL ANALYSIS)	3000002300007
INTANG	(INTEGRATION OF ANGULAR DISTRIBUTION)	3000002300008I
ENDDICTION	7	3000002399999C
DICTION	24 750209 DATA-HEADING KEYWORDS	3000002400001C
*COMMENT	THE MEANING OF THE CODE 'EN' SHOULD BE EXTENDED TO 'ENERGY OF INCIDENT PROJECTILE, LAB-SYSTEM'. THIS EXTENSION SHOULD ALSO APPLY TO THE OTHER CODEWORDS, WHICH CONTAIN 'EN', LIKE 'EN=CM'.	3000002400002I
*EN	INCIDENT NEUTRON ENERGY, LAB-SYSTEM	3000002400003I
*EN=CM	INCIDENT NEUTRON ENERGY, C-M-SYSTEM	3000002400004I
*EN-MIN	LOW LIMIT OF INCIDENT N-ENERGY RANGE, LAB-SYSTEM	3000002400005I
*EN=CM-MIN	LOW LIMIT OF INCIDENT N-ENERGY RANGE, C-M-SYSTEM	3000002400006
*EN-MAX	HIGH LIMIT OF INCIDENT N-ENERGY RANGE, LAB-SYSTEM	3000002400007
*EN=CM-MAX	HIGH LIMIT OF INCIDENT N-ENERGY RANGE, C-M-SYSTEM	3000002400008
		3000002400009
		3000002400010
		3000002400011

COS-CM-MIN	LOW LIMIT OF COSINE-RANGE OF ANGLE, C-M-SYSTEM	*3000002400072
COS-MAX	HIGH LIMIT OF COSINE-RANGE OF ANGLE, LAB-SYSTEM	*3000002400073
COS-CM-MAX	HIGH LIMIT OF COSINE-RANGE OF ANGLE, C-M-SYSTEM	*3000002400074
COS-RSL	COSINE OF ANGULAR RESOLUTION	3000002400075
COS-ERR	COSINE OF ANGLE-ERROR	3000002400076
DATA	HEADING FOR COLUMN GIVING THE QUANTITY SPECIFIED UNDER 'ISO-QUANT'	3000002400077
		3000002400078
DATA-CM	DATA GIVEN IN THE CENTRE OF MASS SYSTEM	3000002400079
DATA-APRX	APPROXIMATE VALUE OF DATUM	3000002400080
DATA-MIN	LOW LIMIT OF DATUM	3000002400081
DATA-MAX	HIGH LIMIT OF DATUM	3000002400082
DATA-ERR	DATA-ERROR. EXPLANATION TO BE GIVEN UNDER 'ERR-ANALYS'	3000002400083
DATA-ERR1	FIRST DATA-ERROR, IF MORE THAN ONE ERROR-COL IS GIVEN. EXPLANATION UNDER 'ERR-ANALYS'	3000002400084
		3000002400085
DATA-ERR2	SECOND DATA-ERROR, IF MORE THAN ONE ERROR-COL IS GIVEN. EXPLANATION UNDER 'ERR-ANALYS'	3000002400086
		3000002400087
+DATA-ERR	+ UNSYMMETRIC DATA-ERROR. EXPLANATION UNDER 'ERR-ANALYS'	3000002400088
DATA-ERR3	THIRD DATA-ERROR, IF MORE THAN ONE ERROR-COL IS GIVEN. EXPLANATION UNDER 'ERR-ANALYS'	3000002400089
		3000002400090
-DATA-ERR	- UNSYMMETRIC DATA-ERROR. EXPLANATION UNDER 'ERR-ANALYS'	3000002400091
RATIO	HEADING FOR COLUMN GIVING THE RATIO SPECIFIED UNDER 'ISO-QUANT', OR THE QUANTITY/STANDARD RATIO	3000002400092
		3000002400093
RATIO-MIN	LOW LIMIT OF RATIO	3000002400094
RATIO-MAX	HIGH LIMIT OF RATIO	3000002400095
RATIO-ERR	RATIO-ERROR	3000002400096
RATIO-ERR1	FIRST RATIO-ERROR, IF MORE THAN ONE RATIO-ERROR IS GIVEN. EXPLANATION UNDER 'ERR-ANALYS'	3000002400097
		3000002400098
RATIO-ERR2	SECOND RATIO-ERROR, IF MORE THAN ONE RATIO-ERROR IS GIVEN. EXPLANATION UNDER 'ERR-ANALYS'	3000002400099
		3000002400100
+RATIO-ERR	+UNSYMMETRIC RATIO-ERROR. EXPLANATION UNDER 'ERR-ANALYS'	3000002400101
-RATIO-ERR	-UNSYMMETRIC RATIO-ERROR. EXPLANATION UNDER 'ERR-ANALYS'	3000002400102
STAND	HEADING FOR COLUMN GIVING THE NUMERICAL VALUE ASSUMED FOR THE ISO-QUANT SPECIFIED UNDER 'STANDARD'	3000002400103
		3000002400104
STAND-ERR	STANDARD-ERROR	3000002400105
STAND1	FIRST STANDARD-VALUE IF MORE THAN ONE IS GIVEN. EXPLANATION UNDER 'STANDARD'	3000002400106
		3000002400107
STAND2	SECOND STANDARD-VALUE IF MORE THAN ONE IS GIVEN. EXPLANATION UNDER 'STANDARD'	3000002400108
		3000002400109
STAND1-ERR	ERROR OF FIRST STANDARD-VALUE	3000002400110
STAND2-ERR	ERROR OF SECOND STANDARD-VALUE	3000002400111
TEMP	SAMPLE TEMPERATURE	3000002400112
TEMP-ERR	ERROR OF SAMPLE TEMPERATURE	3000002400113
ELEMENT	Z=NUMBER OF ELEMENTS, FOR FISSION-PRODUCT YIELDS ONLY	*3000002400114
MASS	A=NUMBER OF ISOTOPES, FOR FISSION-PRODUCT YIELDS ONLY	*3000002400115
HL	HALF-LIFE OF RESIDUAL NUCLEUS	3000002400116
HL1	HALF-LIFE OF NUCLEUS SPECIFIED IN THE BIB-SECTION	3000002400117
HL2	HALF-LIFE OF NUCLEUS SPECIFIED IN THE BIB-SECTION	3000002400118
HL3	HALF-LIFE OF NUCLEUS SPECIFIED IN THE BIB-SECTION	3000002400119
HL-ERR	ERROR OF HALF-LIFE OF RESIDUAL NUCLEUS	3000002400120
HL1-ERR	ERROR OF HALF-LIFE OF NUCLEUS SPECIFIED IN BIB-SECTION	3000002400121
HL2-ERR	ERROR OF HALF-LIFE OF NUCLEUS SPECIFIED IN BIB-SECTION	3000002400122
HL3-ERR	ERROR OF HALF-LIFE OF NUCLEUS SPECIFIED IN BIB-SECTION	3000002400123
FLAG	FLAG. MEANING OF FLAGS GIVEN UNDER THIS HEADING TO BE EXPLAINED IN BIB-SECTION UNDER 'FLAG'	3000002400124
		3000002400125
NUMBER	NUMBER, USED TO SPECIFY INDICES, E.G. COEFF-NUMBERS, LEVEL-NUMBERS ETC.	*3000002400126
		3000002400127
NUMBER-CM	COEFFICIENT-NUMBER OF LEGENDRE OR COSINE COEFFICIENTS WHEN THE FIT HAS BEEN DEDUCED FROM AN ANGULAR DISTRIBUTION IN WHICH THE ENERGIES ARE GIVEN IN THE CENTRE OF MASS SYSTEM	*3000002400128
		3000002400129
		3000002400130
		3000002400131



EN-DUMMY	DUMMY ENERGY. USED AS THE NUMERICAL EQUIVALENT OF AN INCIDENT NEUTRON SPECTRUM WHERE NO NUMERICAL ENERGY VALUE IS GIVEN BY THE AUTHOR	*3000002400012
		3000002400013
		3000002400014
EN-RSL	INCIDENT-NEUTRON ENERGY-RESOLUTION	3000002400015
+EN-RSL	+UNSYMMETRIC ENERGY RESOLUTION	3000002400016
-EN-RSL	-UNSYMMETRIC ENERGY RESOLUTION	3000002400017
EN-ERR	ERROR OF MONOCHROMATIC INCIDENT-NEUTRON ENERGY OR UNCERTAINTY OF THE CENTRAL ENERGY IN AN INCIDENT NEUTRON-SPECTRUM.	3000002400018
		3000002400019
		3000002400020
EN-ERP1	ENERGY ERROR, IF MORE THAN ONE ERROR IS GIVEN.	3000002400021
	EXPLANATION UNDER 'ERR-ANALYS'.	3000002400022
EN-ERR2	SECOND ENERGY ERROR, IF MORE THAN ONE ERROR IS GIVEN.	3000002400023
	EXPLANATION UNDER 'ERR-ANALYS'	3000002400024
+EN-ERR	+ UNSYMMETRIC ENERGY-ERROR	3000002400025
-EN-ERR	- UNSYMMETRIC ENERGY-ERROR	3000002400026
EN-NRM	NORMALIZATION ENERGY. TO BE USED WHEN A DATA SET IS NORMALIZED TO ONE ENERGY ONLY.	3000002400027
		3000002400028
EN-RES	RESONANCE ENERGY	*3000002400029
EN-RES-ERR	ERROR OF RESONANCE-ENERGY	3000002400030
MU-ADLER	MU IN ADLER-ADLER RESONANCE-ANALYSIS, EQUIVALENT TO RESONANCE ENERGY	*3000002400031
		3000002400032
E	ENERGY OF OUTGOING PARTICLE, LAB-SYSTEM	*3000002400033
E-CM	ENERGY OF OUTGOING PARTICLE, C-M-SYSTEM	*3000002400034
E-MIN	LOW LIMIT OF OUTGOING-PARTICLE E-RANGE, LAB-SYSTEM	*3000002400035
E-CM-MIN	LOW LIMIT OF OUTGOING-PARTICLE E-RANGE, C-M-SYSTEM	*3000002400036
E-MAX	HIGH LIMIT OF OUTGOING-PARTICLE E-RANGE, LAB-SYSTEM	*3000002400037
E-CM-MAX	HIGH LIMIT OF OUTGOING-PARTICLE E-RANGE, C-M-SYSTEM	*3000002400038
E-RSL	OUTGOING-PARTICLE ENERGY-RESOLUTION	3000002400039
E-ERR	OUTGOING-PARTICLE ENERGY-ERROR	3000002400040
E-EXC	EXCITATION-ENERGY	3000002400041
E-EXC-MIN	LOW LIMIT OF EXCITATION-ENERGY	3000002400042
E-EXC-MAX	HIGH LIMIT OF EXCITATION-ENERGY	3000002400043
E-LVL	LEVEL-ENERGY	3000002400044
E-LVL-INI	INITIAL LEVEL OF GAMMA-TRANSITION	3000002400045
E-LVL-FIN	FINAL LEVEL OF GAMMA-TRANSITION	3000002400046
E-LVL-ERR	LEVEL-ENERGY ERROR	3000002400047
E-LVL-MIN	LOW ENERGY-LIMIT OF A DISCRETE LEVEL-GROUP	3000002400048
E-LVL-MAX	HIGH ENERGY-LIMIT OF A DISCRETE LEVEL-GROUP	3000002400049
Q-VAL	Q-VALUE	3000002400050
Q-VAL-ERR	Q-VALUE ERROR	3000002400051
Q-VAL-MIN	LOWER LIMIT OF Q-VALUE	3000002400052
Q-VAL-MAX	UPPER LIMIT OF Q-VALUE	3000002400053
E-GAIN	GAIN IN NEUTRON ENERGY	3000002400054
E-GAIN-ERR	ERROR OF GAIN IN NEUTRON ENERGY	3000002400055
E-DGD	DEGRADATION IN NEUTRON ENERGY	3000002400056
E-DGD-ERR	ERROR OF DEGRADATION IN NEUTRON ENERGY	3000002400057
ANG	ANGLE, LAB-SYSTEM	*3000002400058
ANG1	ANGLE, DEFINITION SPECIFIED IN THE BIB-SECTION	*3000002400059
ANG2	ANGLE, DEFINITION SPECIFIED IN THE BIB-SECTION	*3000002400060
ANG3	ANGLE, DEFINITION SPECIFIED IN THE BIB-SECTION	*3000002400061
ANG-CM	ANGLE, C-M-SYSTEM	*3000002400062
ANG-MIN	LOW LIMIT OF ANGLE RANGE, LAB-SYSTEM	*3000002400063
ANG-CM-MIN	LOW LIMIT OF ANGLE RANGE, C-M-SYSTEM	*3000002400064
ANG-MAX	HIGH LIMIT OF ANGLE RANGE, LAB-SYSTEM	*3000002400065
ANG-CM-MAX	HIGH LIMIT OF ANGLE RANGE, C-M-SYSTEM	*3000002400066
ANG-RSL	ANGULAR RESOLUTION	3000002400067
ANG-ERR	ANGLE-ERROR	3000002400068
COS	COSINE OF ANGLE, LAB-SYSTEM	*3000002400069
COS-CM	COSINE OF ANGLE, C-M-SYSTEM	*3000002400070
COS-MIN	LOW LIMIT OF COSINE-RANGE OF ANGLE, LAB-SYSTEM	*3000002400071



SPIN J	SPIN J OF RESONANCES, STRENGTH-FUNCTIONS, ETC.	300000	2400132
MOMENTUM L	ANGULAR MOMENTUM L OF RESONANCES, STRENGTH-F'S, ETC.	300000	2400133
PARITY	PARITY OF RESONANCE	300000	2400134
STAT-W G	STATISTICAL-WEIGHT FACTOR G	300000	2400135
MISC	HEADING FOR A COLUMN WITH SUPPLEMENTARY INFORMATION FOR WHICH NO DATA-HEADING KEYWORD HAS BEEN DEFINED.	300000	2400136
	EXPLANATION TO BE GIVEN UNDER 'MISC-COL' KEYWORD	300000	2400137
MISC1	FIRST MISCELLANEOUS COLUMN - IF MORE THAN ONE IS GIVEN SAME USAGE AS -MISC-(SEE ABOVE)	300000	2400139
MISC2	SECOND MISCELLANEOUS COLUMN -IF MORE THAN ONE IS GIVEN SAME USAGE AS -MISC-(SEE ABOVE)	300000	2400141
MISC3	THIRD MISCELLANEOUS COLUMN -IF MORE THAN ONE IS GIVEN SAME USAGE AS -MISC-(SEE ABOVE)	300000	2400143I
MISC4	FOURTH MISCELLANEOUS COLUMN -IF MORE THAN ONE IS GIVEN SAME USAGE AS -MISC-(SEE ABOVE)	300000	2400145I
	-----	300000	2400146I
	NOTE= * IN CCL66 IDENTIFIES THOSE KEYWORDS WHICH MAY BE USED ONLY FOR INDEPENDENT VARIABLES.	300000	2400147
		300000	2400148
ENDDICTICN	148	300000	2400149
DICTION	25	730122	DATA UNIT KEYWORDS
ENDDICTICN	98	300000	2499999C
ECJ		300000	2500001
		300000	2599999