

Memo 4C-3/373

25 March, 1994

To: Distribution

From:  
H. Wienke and O. Schwerer

Subject: Some errors in old area 4 entries

One of our users informed us of some errors he has encountered in a number of old area-4 EXFOR entries, which are presented in the table below. Regarding entry no. 40244, which contains a number of data sets which are corrected by other ones without having been deleted while some of them also have been corrected manually, those subentries of which updates exist should be removed since current processing codes treat such duplications as multiple measurements of equal validity. Retransmission of all entries listed below is requested.

Distribution:

M.R. Bhat, NNDC
N. Tubbs, NEA-DB
V.N. Manokhin, CJD
V. McLane, NNDC

NDS: R. Arcilla
S. Ganesan
M. Lammer
H.D. Lemmel
P. Oblozinsky
A. Pashchenko
O. Schwerer
H. Wienke
3 spare copies

Some errors in area 4 entries

Entry	Subent	Line(s)	Comment
40244	2, 43		Wrong data units, corrected by subent 85
	3, 44		Idem. by subent 86
	4, 45		Idem. by subent 87
	5, 46		Idem. by subent 88
	6, 47		Idem. by subent 89
	18,59		Idem. by subent 102
	7		Idem. by subent 90
	8		Idem. by subent 91
	20		Idem. by subent 65
	22		Idem. by subent 67
	23		Idem. by subent 68
	24		Idem. by subent 69
	25		Idem. by subent 70
	8		Corrected manually and by subent 91
	27		Idem. by subent 72
	48		Idem. by subent 90
	49		Idem. by subent 91
	50		Idem. by subent 92
	9		Improved information given by subent 92
	26		Idem. by subent 105
	38		Idem. by subent 81 (error bars changed)
21		Wrong data units, not corrected.	
40656	2	9	The data values are grossly discrepant with recent measurements, including those of Wolfs et al., (subentry 13285002) who quote 54 microbarns for the He-3(n, γ) reaction at thermal, while the corresponding EXFOR value is 27 milibarns. Clearly the data units should be microbarns rather than milibarns.
40794	2	15	The data value of 96 barns for Ne-21(n, α) is much too high (KAPL wall chart gives an upper limit of 1.5 barn). Probably also here wrong data units.
41059	3	4	Half-life in DECAY-DATA should be 6.9 hours (16.1 years is the half-life of Nb-93-m).

Some errors in area 4 entries (cont.)

Entry	Subent	Line(s)	Comment
40990	1	25	Incident-neutron energy probably should be 1.0 eV or thermal (0.0253 eV) instead of 1.00E+06 eV.
40336	102	13-15	Data points are almost exactly 1000 times all neighboring points and existing evaluations of this cross section.