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Memo CP-N/150

Date: April 8, 2019
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Subject: Reply to memo 4C-3/401 Articles cited by Mughabghab
(Action to NNDC, NEA and CJD)

In response to the memo 4C-3/401 (rev.) and action A31 agreed at the 2018 NRDC meeting (see INDC(NDS)-0762):

A31 Fleming Pritychenko (Continuing action) Perform EXFOR completeness checking for the list of articles (4C-3/401, articles cited in S. Mughabghab's "Atlas of Neutron Resonances") to identify articles missing in EXFOR, and assign responsibility of compilation of the identified articles to centres by a memo.

the responsible center has been defined for articles from the Mughabghab *Atlas of Neutron Resonances*, which are absent in EXFOR, or for which some corrections have to be made in EXFOR. Results of this work are summarized in 2 tables within the annex to this memo.

The list of references for NEA DB was checked and responsibility of compilation was defined (see columns *Lab(exp)* and *Center*). The table was split into 4 sections according to the responsibility of the four centers: NNDC (1), NEA DB (2), NDS (3) and CJD (4). CINDA also was checked and the result is given in the column *CINDA* with an explanation of abbreviations provided under the title of Table 1.

Then EXFOR numbers were defined for area 2 (NEA DB) and area 4 as shown in the column *EXFOR#*. Four cases were identified:

- Entry # provided: Cases where the number is provided are those where the article is included in this Entry # but some correction could be made, as explained in the Comment/Action column. These comments are for the feedback web-site.
- For #: This article should be compiled in the existing, identified entry.
- New: It is proposed that these data should be included in a new EXFOR entry.
- New if for EXFOR: These articles may be the subject of a new EXFOR entry if they should be included in EXFOR.

The use of red color in the first four columns indicates a typo present in the data from the original memo 4C-3/401 (rev.). Comments for the feedback list, misprints in the *Atlas*, articles not for EXFOR and articles that require additional discussion to determine suitability for EXFOR are listed in Table 2.

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Table 1. Articles from the Mughabghab ATLAS published in area 1-4 countries that are missing in EXFOR.
 CINDA abbreviations: C: Compilation, E: Experimental, M: Experimental plus theoretical, T: Theoretical, N/A: not compiled in CINDA

	Author	Reference	Lab (exp)	Center	EXFOR #	Comment/Action	CINDA	
AREA 1								
23	R.Wagner	C.65ANTWERP,531(99),1965	1USAORL	NNDC	prelim.for 11626?	Misprint: paper 99,page 531	N/A	
26	Allen	C.77GEEL.,506,1977	1USAORL	NNDC			N/A	
68	Lone	C.81GRENOB.,383,1981	1CANCRG	NNDC			N/A	
218	I.Almodovar	J.ZP,177,451,1964	1USAPFR	NNDC		U238(n,a)th235	E	
233	Robertson	J.ZP/A,284,407,1978	1CANMCM	NNDC		Misprint ZP-> ZP/A , V50(n,g)	E	
303	Yamamuro	J,JPJ,29,1378,1970	2JPNITT 1USARPI	NNDC	New	+J,NSE,37,137,1969	E	
342	Matsuda	R,KUNS-1492,1998	2JPNKTO	NNDC	For 14179		N/A	--
354	Thomson	J,NIM,126,263,1975	1CANMCM	NNDC	For 10596 ?	Partial CS	E	
365	Lynn	J,NIM/B,108,147,1996	1USALAS	NNDC			N/A	
366	Lynn	J,NIM/B,192,318,2002	1USALAS	NNDC		W,Ta	N/A	
425	Froehner	J,NP,71,129,1965	1USAGGA	NNDC	For 11944 or New	Er167 Gg,2gGn	E	
469	Wasson	J,NP/A,132,161,1969	1USABNL	NNDC	New or for 10501 ?	Ta181(n,g),spin,parity,g-intensities ?	E	
479	Chang	J,NP/A,142,634,1970	1USAMIS	NNDC		Decay data.Not for EXFOR?	N/A	
507	Philpot	J,NP/A,208,236,1973	1USAFLA	NNDC	Not for EXFOR	Theor., Not for EXFOR?	N/A	
517	Lone	J,NP/A,243,413,1975	1CANCRG	NNDC	New	Hg198,199,201(n,g) wid.	E	
550	Towner	J,NP/A,356,445,1981	1CANCRG	NNDC		Theor., Not for EXFOR?	T	
581	Guber	J,NP/A,621,266C,1997	1USAORL	NNDC	For 13647 ?	Nd-142,144(n,g) CS	E (without C in page)	
615	Oakey	J,PL/B,24,142,1967	1CANMCM	NNDC	For 12084 ?	Sm150, a-decay. therm.n capture. Not for EXFOR ?	E	
622	D.O.Riska	J,PL/B,38,193,1972	1USANYB	NNDC			T	
627	Horen	J,PL/B,79,39,1978	1USAORL	NNDC		Not exp.?	N/A	
628	Mughabghab	J,PL/B,81,93,1979	1USABNL	NNDC		Theor. Xe136(n,g)Xe137	T	
629	Seagrave	J,PL/B,91,200,1980	1USALAS	NNDC	For 10945 ?	H3(n,tot) derive 1.70+-0.03 b at 0.eV	E	
631	Mitchell	J,PL/C,354,157,2001	1USALAS	NNDC		Same as next. PL/C->PRN ?	N/A	
632	Mitchell	J,PRN,354,157,2001	1USALAS 1USANCA 4ZZZDUB	NNDC		The same as above? 18 nuclides.Res.pars. ?	N/A	
692	Fields	J,JIN,1,262,1955	1USAANL	NNDC	For 12535?		E	
695	Smith	J,JIN,3,157,1956	1USAMTR	NNDC	New if exp.	Re188(n-therm.)	E	+
696	Cuilinghame	J,JIN,4,1,1957	1USAANL	NNDC	New if exp.	nn->n in name. Am214(nf)massFY	N/A	
699	Schuman	J,JIN,6,1,1958	1USAKAP	NNDC	New	Es-254 480+-70d. Es254(n,g) CS < 40b	E	
747	M.C. Thompson	J,JIN,33,1553,1971	1USASRL	NNDC	New if exp.	Cm244-248 RI	E	
748	Macmurdo	J,JIN,33,1553,1971	1USASRL	NNDC		misprint Macmurdo-> Thompson, see line above	E	
973	Eastwood	R.EANDC(CAN)-16,7,1963	1CANCRG	NNDC	11849 ?	JIN,34,449,1972? (10281)	E ?	
997	Hockenbury	R.NEANDC(US)-201U,1977	1USARPI	NNDC		p.7->6 ? (11849)	N/A	
AREA 2								
2	Lugmair	J,APA,23,64,1966	2AUSSGA	NEA DB	For 20637, prelim.results	In German Compile as prelim. in 20637	E	+
16	Julien	C.65ANTWERP.,80,1965	2FR SAC	NEA DB	For 20676(As,Ga,Br),20686(Au),20688(Cu)	page529(abstract) As,Ga,Br, - 20676(Julien+) Ba, Cu - 20688(Alves+Julien) Au-20686 Add S,EANDC-50-S - full text,Tables 1,2,3 data (SPSDD by Newer publication?)	E	+
17	Morgenstern	C.65ANTWERP.,86,1965	2FR SAC	NEA DB	For 20683(Mn,Co res.par), 20684(V-51 Eres.)	page531(abstract) V,Co,Mn tot CS Add S,EANDC-50-S - full text	E	+
49	Moxon	C.66PARIS,1,129,1966	2UK HAR	NEA DB	New		E	+
66	Spits	C.81GRENOB,218,1981	2NEDRSN	NEA DB	New		E	+
70	Emsallem	C.81GRENOB,460,1981	2FR ILL	NEA DB	For 21714	Bad quality of Table and plots	E	+
74	Faraggi	J,CR,231,1475,1950	2FR SAC	NEA DB	New	In French,Fe	E	+
76	Faraggi	J,CR,234,1684,1952	2FR SAC	NEA DB	New	In French, Zn64	E	+
77	Faraggi	J,CR,235,425,1952	2FR SAC	NEA DB	New	In French, Zn	E	+
81	Genin	J,CR,251,691,1960	2FR SAC	NEA DB	For 21227	In French. Delete MXW. Add ref.as prelim.publ. Add REL-REFs-Table A, add 20+-30mn SIGabs on p.602 in free text	E	+
89	Michaudon	J,CR,255,2086,1962	2FR SAC	NEA DB	New	In French.Enres,Gtot on fig.	E	+
90	Alix	J,CR,268,345,1969	2FR SAC	NEA DB	New	In French Res.pars.Fe56	E	+
94	Longchamp	J,JPR,13,333,1952	2FR STR	NEA DB	New	In French.Fe56(n,a) CStherm	N/A	+
95	A.Leveque	J,JPR,15,101,1954	2FR SAC	NEA DB	New	Pu239/Unat eff.CS therm.	E	+
96	J.Charon	J,JPR,17,564,1956	2FR SAC	NEA DB	For 21397	U236(n,g) CS In French	E	+

104	Ribon	J,JPR,24,987,1963	2FR SAC	NEA DB	For 20146	In French. Rh103 First results Table data could be added?	E	+
117	Tellier	R,CEA-N-1230,1969	2FRSAC	NEA DB	New	In French. Au197 20580, 20686-different flight paths	E	+
132	Sekine	C,91JUELIC,,57,1991	2JPNJAE	NEA DB	For 22174(CStherm), 22239(SIGO,RI) 22737 (final SIGO,RI)	22174-part of this work. delete MXW in 22239.002,add EN-RES-MIN in .003, delete -G.	E	+
140	Neumann	J,AKE,11,477,1966	2ZZZISP	NEA DB	New	In German. Sm152 CSther.	N/A	+
142	Wille	J,AKE,13,383,1968	2GERKIL	NEA DB	New	In German Ar36(n,g)	E	+
147	Bellmann	J,AKE,17,145,1971	2GERKIL	NEA DB	New	Bellman-> Bellmann Ne(n,g)	E	+
149	Suszkin	J,AKE,19,172,1972	2GERKIG	NEA DB	New	In German,Cu CStotal	E	+
162	Fischer	J,AKE,42,203,1983	2GERKIL	NEA DB	For 21781	Add ref.	E	+
173	Hellstrand	J,NUK,8,1,1966	2GERMUN	NEA DB	For 20018	Add ref.	E	+
175	Koehler	J,NUK,10,278,1967	2GERMUN	NEA DB	New	In German S34(n,g) SIGO	E	+
184	A.Boudin	J,RCA,8,188,1967	2BLGBRU	NEA DB	New	In German,Hf-179(n,g)	E	+
187	D.Brune	J,RCA,12,119(2),1969	2SWDAE	NEA DB	New	RI for Cl37,I127	N/A	+
191	Grundel	J,RCA,21,214,1974	2GERMUN	NEA DB	New	No En I-rabbit system at FRN	N/A	+
193	Friedmann	J,RCA,33,183,1983	2GERMUN	NEA DB	New	misprint n-> nn	N/A	+
200	Flammersfeld	J,ZN/A,8,217,1953	2GERMPM	NEA DB	New	In German Re-0(N,X)Re-188G, 16.7hr, thermal neutrons.	N/A	+
212	H.Houtermans	J,ZP,149,215,1957	2GERGOE	NEA DB	New	In German Tm170	E	+
214	R.Tornau	J,ZP,159,101,1960	2GERGOE	NEA DB	New	In German Dy165(n,g)Dy166-M/G,sig/rat	E	+
217	R.Schoeneberg	J,ZP,175,54,1963	2GERGOE	NEA DB	New	In German Er164(n,g)Er165 CS 20+-7 b	E	+
260	Kok	J,ZP/A,324,271,1986	2NEDRCN	NEA DB	New	B10(n,g) 0.29(4)b	E	+
267	Wissihak	R,FZKA-6860,2003	2GERKFK	NEA DB	New	Data of 22813 were re-analyzed to obtain res.pars. and New values of CS (110,112,114,116 Cd only)	N/A	+
270	Chou	R,KFK-1270,1,1970	2GERKFK	NEA DB	For 20352	In German Page 121-1 for Chou Add as secondary ref. Add in Subents.012,.013 data in free text.	E	+
271	Eberle	R,KFK-1338,197104	2GERKFK	NEA DB	For 23109.004	In German Add Table 5 data and SPSDD by .004(197108)	N/A	+
298	de Corte	C,88MITO,,583,1988	2BLGGHT, 3HUNKFI	NEA DB	New	Average for several runs - in GER +HUN	C	+
300	Kimura	J,JMJ,24,569,1942	2JPNIPC	NEA DB	New	Misprint JPJ->JMJ (see CINDA)	E	+
305	Ohkubo	J,JPJ,33,1185,1972	2JPNJAE	NEA DB	New, SPSDD 21326	Wider Eres range, Not ckear-re-analysed or remeasured ? Ask- digitize figs?	E	+
313	Ohkubo	J,NST,16,701,1979	2JPNJAE	NEA DB	For 20817	Tb-159 final results	E	+
336	Nakamura	R,JAERI-C-99-002,176,1999	2JPNJAE	NEA DB	In 22426(1127), For 22469(Cs133 prelim.) In 22632(Se80, Zr94,Sn124)	Add =INDC(JPN)-182 as this conf.proc. in EXFOR	E	+
338	Kimura	S,JAERI-M-89-026,210,1989	2JPNJAE	NEA DB	New	-> S,JAERI-M-89-026,210,1989	N/A	+
340	Ohkubo	R,JAERI-M-93-012,1993	2JPNJAE	NEA DB	For 21926	Ce, Sb . Add also J,RE,96,(4),281,1986=85SANTA... Correct S0 (E-4) for Ce, add res.pars.	E	+
345	Rohr	C,74PETTEN,,306,1974	2ZZZGEL	NEA DB	For 20397	In 20397 -page 71, But maybe 71-paper?, Check page 71 in conf.proc.	E In CINDA-both, but all data in p.306	+
346	Emsallem	C,74PETTEN,,395,1974	2FR LYO	NEA DB	New	Like 20564,but different sample Sm-147 and counting time	E	+
347	Widder	C,74PETTEN,,757,1974	2SWTWUR	NEA DB	For 20437	in 20437 page 265? Check page 265 in conf.proc., paper #265.	E blocked 20437 In CINDA no page 265	+
363	Goeminne	J,NIM/A,489,577,2002	2FR ILL	NEA DB	For 22673	Ar-39. Prelim.for 22673	N/A	+
431	G.van Middelkoop	J,NP,77,267,1966	2NEDUTR	NEA DB	New	Cl35(n,g)	E	+
439	Andreeff	J,NP/A,102,241,1967	3DDRROS (n,g) 2DENNBI (d,p)	NDS NEA DB	New	Activation CS 10+-2 b	E	+
460	Bisgard	J,NP/A,125,305,1969	2DENAAU	NEA DB	New	Os192(n,g) CS-14mb	E	+
464	Samour	J,NP/A,130,353,1969	2FR SAC	NEA DB	New	Co59,Au127 capture 10+-3,1.5+-0.8 mb. In French	E	+
474	Alves	J,NP/A,135,241,1969	2FR SAC	NEA DB	For 20683-20688(res.par.) Or New(gamma-spectra)	Gamma-spectra,spins, Cl,Mn,Fe,Tm,Hg In French 20684(ClO,35,37), 20683(Mn55), 20687(Fe56) 20688(Cu63,65) 20685(Tm169) 20687(Hg198,199,201)	E	+

492	Zeitnitz	J,NP/A,166,443,1971	2GERKFK	NEA DB	For 20014	N15(n,tot) part I	E Cierjakcs+ Misprint?	+
493	Dover	J,NP/A,166,461,1971	2GERKFK	NEA DB	For 20014	N15 part II	N/A	+
498	Weigmann	J,NP/A,185,229,1972	2ZZZGEL	NEA DB	For 20397	G-spectra Nd-143, res., spins	E	+
501	Kuiken	J,NP/A,196,389,1972	2NEDGRN, 2UK HAR 2NEDLEI	NEA DB	New	Np237(n,f),0.4-2000eV	E	+
528	Bommer	J,NP/A,263,93,1976	2GERBER, 2GERMPH	NEA DB	For 20662(Mg tot CS), New (S32) (d,p) CS -New	Mg24,S32(n,tot),res.par. Supersedes ref.7 19,20,12-neutr.Mg CS- fig.1 11-neutr S data-fig.2	E	+
532	Andersen	J,NP/A,269,338,1976	2DENNBI, 2DENRIS	NEA DB	New	U-235(n,g)U236 -> fis 116nsec ratio to fission cs	E	+
537	Stefanon	J,NP/A,281,240,1977	2ZZZGEL 2ITYBOL	NEA DB	New	Hf177(n,g) STF, J,PI,1-165eV Par.MLT at resonance-Tabl	E	+
543	Casten	J,NP/A,309,206,1978	2FR ILL , 1USABNL(1 st author)	NEA DB	New	Os190(n,g)Os191g(15d) therm.383+-54b Compare with 22233,13923	E	+
557	Coceva	J,NP/A,385,301,1982	2ITYBOL	NEA DB	New	Ru100,102 population ratio = P(+1/2)/P(-1/2)? Eres,J-text page 304-New, compare with 21114(previous,1968)	E	+
562	Ruyl	J,NP/A,419,439,1984	2NEDUTR, 2NEDRCN 2UK BIR	NEA DB	New	Ti47,49(n,g),Gamma intensities Table 1 -CS	M	+
565	Shimizu	J,NP/A,452,205,1986	2JPNLTP	NEA DB	For 22381.006	Si28(n,g) wid	E	+
569	Wagemans	J,NP/A,469,497,1987	2BLGMOL, 2ZZZGEL	NEA DB	For 22026	S33(n,a), CS,res.pars. , look also 21830	E	+
571	Masuda	J,NP/A,504,269,1989	2JPNLEP 2JPNKTO	NEA DB	New, spsdd by 22250.002 – different analysis	La139, cap. trn, Misprint Matsuda->Masuda 22250.002 (0.734ev resonance)	E	+
577	Drissi	J,NP/A,614,137,1997	2SWTFRS 2FR ILL 2GERMUN	NEA DB	New	Cd111(n,g), CS 4+-2 b, gamma intensities	E	+
583	Goeminne	J,NP/A,678,11,2000	2ZZZGEL	NEA DB	New	Ar37(n,p),(n,a) 10meV-100keV, res., MACS 22427- Monitor Digitize figs.4,5	E	+
584	Wagemans	J,NP/A,688,490C,2001	2FR ILL (therm), 2ZZZGEL (res.)	NEA DB	For 22681 (2 nd ref)	N14(n,p), O17(n,a) in 22496(mentioned as from [5]) Al26(n,p)-no data (n,a) 22681- add C in page, Res.pars can be added	E	+
618	Steyerl	J,PL/B,29,33,1969	2GERMUN	NEA DB	New	cold neutrons 0.1-60meV, tot CS. Au, Al 21017 –next exp-t at other temp.	E	+
620	Weigmann	J,PL/B,30,624,1969	2ZZZGEL	NEA DB	New	Np237(n,g) spectra, Res. areas	E	+
626	Casten	J,PL/B,76,280,1978	2FR ILL	NEA DB	For 20820	Os192(2n,g). Os193(n,g) 38+-10 b, (final?)	N/A	+
633	Kopecky	R,RCN-175,1972	2NEDRCN	NEA DB	New	Na-23(n,g) intensities	E	+
635	Bergstrom	J,AF,5,191,1952	2SWDIPS	NEA DB	New	Isomers of Kr and Xe CS ratio, Kr78 CS(page 223)	E	+
638	Selin	J,PS,2,169,1970	2SWDCTH	NEA DB	New	Ne, thermal capture, Igamma, Ne22/Ne20 CS and ratio	E	+
639	Lundberg	J,PS,2,265,1970	2SWDFOA	NEA DB	For 20248	Mg,Si,P,S. capture, CS,10-75keV. Gamma-spectra were used in 20248	E	+
644	Quensel	R,AE-RFT-113,1965	2SWDAE	NEA DB	New	In Swedish P31,V51,W0 (n,abs),RI	E	+
648	Briancon	C,93FRIBOU,192,1993	2FR SAC 4ZZZDUB	NEA DB	New for 2FR SAC (T,KIM) 4ZZZDUB – for 41175 (add ref)	Review, refs.7,28 – therm.cap.CS Hf178m2 : 46+-5, 51+-10 b,resp. 2FR SAC(absent), 4ZZZDUB (41175) Refs. list could be checked	N/A	+
651	Haenni	J,HPA,23,513,1950	2SWTNEU	NEA DB	For 21238	In French (add as prelim. publ.)	N/A	+
655	Rossel	J,HPA,31,727,1958	2SWTNEU	NEA DB	New	In French K40(n-th,p) 3.8+-0.7 b	E	+
666	Asghar	C,75HARWELL,,38,1975	2FR ILL	NEA DB	For 20564? (Sm147)	Abstract in CINDA Nd-143, Sm-147,-149 (N.A)	E	--
686	Michael	J,ARI,27,533,1976	2GERJUL	NEA DB	For 20666 (as main ref.)	La138(n,g) CS 57.2+-5.7b, RI 384+-90 b	E	+
783	Cocking	J,JNE,3,70(1),1956	2UK HAR	NEA DB	For 21183	Na(n,g) CS therm. Neutrons	E	+
795	G.W.Horsley	J,JNE,6,41,1957	2UK HAR	NEA DB	New, but no En, pile neutrons, 0.01eV-15MeV	Not for EXFOR? Bi209(n,g), samples with ampurities.	E	+
825	Carter	J,JNE/AB,18,105,1964	2UK WIN	NEA DB	New	misprint JNE-> JNE/AB	E	+
843	Hunt	J,JNE,23,705,1969	2UK NPL	NEA DB	New	U238(n,g) CS, therm.2.69+-0.03b	E	+
854	Moxon	J,JNE,26,643,1972- REL-REF (data source)	2UK HAR	NEA DB	New	Pu240.Priv.communications in ref. of next line 855– Moxon1972a,b	E 20133	+
857	Theobald	J,JNE,27,435,1973	2ZZZGEL	NEA DB	New	U235, EN-res.J, MISC	E	+
879	Barclay	J,PPS/A,65,73,1952	2UK HAR	NEA DB	New	Th/U NU	E	+
881	Harrison	J,PPS/A,65,958,1952	2UK UK	NEA DB	New	Sr84,therm.n capture CS	E	+

883	D.J.Littler, E.E.Lockett	J,PPS/A,66,700,1953	2UK HAR	NEA DB	New	Bi(n,abs) CS 30.8+-2.2mb, Bi(n,x)Po210 20.5+-1.1mb – from 21362.007 and additional meas-nt 20.5+-1.6 mb In 21362.007 – FCT could be added- not total n,g CS .	E	+
887	K.W.Allen, W.E.Burcham,D.h.Wilkinson	J,PRS/A,192,114,1947	2UK CAV	NEA DB	New	Be,Al,res.pars. , CS on fig	E	+
890	B.W.Thomas, J.Murray, E.R.Rae	R,AERE-PR/NP-17,22,1970	2UK HAR	NEA DB	New	Hg201(n,g) g-spectra for 5 resonances ,J, Table MLT,G,RES	E	+
905	Pattenden	R,AERE-PR/NP-2,26,1961	2UK HAR	NEA DB	Prelim.for 20912(Rh)	Rh(20912), add Tm 2 En-res TOF base 15m.	E	+
910	Moxon	R,AERE-PR/NP-6,15,1963	2UK HAR	NEA DB	Prelim., For 21493.003	misprint 1963->1964 Fe56 Gn=52+-5meV, gGnGg/G=47.6+-4meV	N/A	+
917	Moxon	R,AERE-PR/NP-16,10,1969	2UK HAR	NEA DB	without page in 20465, in 22541(point-wise CS) (U238) . Si-0 –New(fig.2-digitize, cap.CS)	U238: Tab.1 - add in 20465 (additional En=0.5-1.keV, details of errors Tab.2).	E 20972(U238)	+
919	Diment	R,AERE-PR/NP-16,3,1969	2UK HAR	NEA DB	For 20366	Li6(n,abs)CS on fig-the same as in 70HELINSKI,1,161,1970 Abs=tot-scat.	E (no page)	+
922	Moxon	R,AERE-PR/NP-19,12,1972	2UK HAR	NEA DB	New.	Pu240res.pars. Continues 21087 (additional measurement was done)	E (no page)	+
927	Taylor	R,AERE-R-4111,1964	2UK HAR	NEA DB	New	C059(n,g) relative Au	E	+
934	Littler	R,AERE-R/R-961,1952	2UK HAR	NEA DB	For 21362.032 ?	Blocked with 21362 in CINDA	E	--
936	Kenward	R,AERE-R/R-2212,1958	2UK HAR	NEA DB	New for J,JNE,20,549 21454 .008.,011 (65Salzburg,2,24)	NU U235(n,f) 2.420+- .037, renormalized in J,JNE,20,549 2.370+-0.014 + C,65SALZBURG,2,25(2.363+-0.021) This inf. from CINDA	E	--
937	Rose	R,AERE-R/R-2457,1958	2UK HAR	NEA DB	For 23311	U233,Pu239(N,abs) ,,eta +58GENEVA,16,34	E 23311in CINDA	--
941	Sanders	R,AERE-RP/R-1655,1955	2UK HAR	NEA DB	For 21456	Blocked in CINDA with 21456	E	--
943	Cocking	R,NRDC-84,9,1955	2UK HAR	NEA DB	New	in NRDC-84 Cocking's data are mentioned as unpublished [2]- Sig-abs at thermal point 2.69+-0.4 relative to Au 98.6+-0.7	E	+
950	Collins	R,NRDC-117,1959	2UK HAR	NEA DB	New	ETA/NU digitize? ,res.pars.	E	+
952	Moxon	R,UKNDC-73-P53,9,1973	2UK HAR	NEA DB	For 21676	5 works for Moxon- page 9 – C,O,Al,Si,V	N/A	+
956	Maddison	R,AEEW-M-887,1969	2UK WIN	NEA DB	New	Si-0, CSabs=0.176+-0.005b	N/A	+
957	Tattersall	R,AEEW-R-115,1962	2UK WIN	NEA DB	New, supersedes 20638.072	Pu240 CSth, RI – only formula, no value. Short text, not clear- re-analized, remeasured.	E	+
971	Winter	C,78HARWELL, 696,1979	2ZZZGEL	NEA DB	For 22602	Add STF, WIDs, exp.details	E	+
972	Bianchi	R,EANDC(E)-49L,52,1963	2FR SAC	NEA DB	For 20684,20688	in French, add (E) . Zn,Zr,Mo,Nb,La,Pr,Nd, Tm,Pt,Au,Hg, res.pars.No for Bianchi. Previous for Julien(1969yr) 20687(res.pars)? Co-previous for20683 ? Yt-previous for 20684; Also JPJ,24,994,1963,Bianchi	E	+
975	Carre	R,EANDC(E)-49,8,1963	2FR FAR	NEA DB	For 21513.003	misprint Carre->Debus(theor.on page 8)? No Carre in EANDC(E)-49L. In CINDA: Carre-> Cabe ? 49,8 -> 49-8?	? 49-8 blocked with W,CARRE & 21513	--
976	Koehler	R,EANDC(E)-66U,38,1966	2GERMUN	NEA DB	For 21360(Si) New for Cl(n,p) CSth	0.37+-0.02 CS for Cl	N/A	+
979	Bardolle	R,EANDC(E)-89U,220,1968	2FR SAC 2FR BRC	NEA DB	1) In 20480 –add U and page 220 2)New (res.pars)	In French. Two articles on p.220. 1 st -Ti tot CS on fig,low quality. 2 nd -Si(n,tot) CS fig12.digitize, Add res.pars.(text) 20480(Cabe) –higher En. 22610003- the same energy range, but looks different than fig12	E	+
981	Harrach	R,EANDC(E)-157,45,1973	2GERMUN	NEA DB	New	=INDC(EUR)-005, Add U V50(n,g) 19.+4 b Sn 11051.1+-0.5	E 157-> 157U	+
987	Buyl	R,NEANDC(E)-232U,3,1982	2ZZZGEL	NEA DB	New	=INDC(EUR)-016/6 No such author on page 3. Page 18 –R.Buyl+F.Corvi,Pd105,108 SIGO	E (without U, no author) Blocked 21806 -no such author	+
993	Theobald	R,NEANDC(E)-192,33,1978	2ZZZGEL	NEA DB NNDC	For 20764? –Geel New – Seeger (ref.2-NP/A, area1) In 20415-Sacley	=INDC(EUR)-11 Am241 res.pars. Sacley,Geel, LASL <GAMMAf>	N/A(page 33, Theobald)	+
						=INDC(EUR)-17/G		

996	Rohr	R,NEANDC(E)-242,3,1983	2ZZZGEL	NEA DB	New (20760 is mentioned as previous analysis)	No Rohr on page 3. Page 5 – Rohr+ U238, Gg; final data for 20760? – add SPSDD in 20760)	E (242->242U?)	+
AREA 3								
196	Heiser	J,ZK,150,81,1968	3DDRROS	NDS		Misprint ? R,ZFK-150,81,1968 (in CINDA)?	N/A E	
282	Fahrman	R,ZFK-132,18,1967	3DDRROS	NDS	New	In German	E Faehrmann, ZFK-132-19,1967 -misprint in CINDA	+
283	Adam	R,ZFK-201,1970	3DDRROS	NDS	New	In German. thesis	E	+
423	Heiser	J,NP,70,415,1965	3DDRROS	NDS	New	Lu176(n,g)Lu177 (160microsec)=315+60b .In German	E	+
428	Winter	J,NP,73,91,1965	3DDRROS	NDS	New	Xe126(n,g)CS=0.7+0.4b	E	+
439	Andreeff	J,NP/A,102,241,1967	3DDRROS (n,gamma), 2DENNBI (d,p)	NDS NEA DB	New	Activation CS 10+-2 b	E	+
454	Heiser	J,NP/A,115,213,1968	3DDRROS	NDS	New	In German SPC, SIGth=5.8+-2.b	N/A	+
820	Ben-David	J,JNE/AB,16,291,1962	3ISLISL	NDS		misprint JNE-> JNE/AB	E	
821	Ben-David	J,JNE/AB,16,291,1962	3ISLISL	NDS		misprints JNE-> JNE/AB, 891->291 The same as previous line	E	
AREA 4								
40	Adamchuk	C,82ANTWER.,730,1982	4RUSKUR	CJD	For 40840?		E	
54	Kalebin	C,66PARIS,1,71,1966	4RUSITE	CJD	For 40093(Th) ? New- Hf?		E 40093(Th) Hf ?	
55	Muradyan	C,66PARIS,1,79,1966	4RUSKUR	CJD	40114(paper107)	Correction 66PARIS in Exfor !	E	
67	Becvar	C,81GRENOb.,230,1981	4ZZZDUB	CJD	New	Becvar -> Bechvarzh ? Yb-171 res.par	E Bechvarzh Blocked J.YF,33,3	
255	Gledenov	J,ZP/A,322,685,1985	4ZZZDUB	CJD	For 40982,41596	misprint in name Glendenov -> Gledenov 40982,41596	E	
375	Gvozdev	J,NP,6,561,1958	4RUSFTI	CJD	New,if exp.	Hf179(n,g)Hf180m CS=0.18+-0.7b	M	
483	Muradyan	J,NP/A,147,205,1970	4RUSKUR	CJD	For 40183?	Sn120	E (Sn120)	
486	Kvitek	J,NP/A,154,177,1970	4ZZZDUB	CJD	For ?: Sm147-40225, Sm149-40494,40225; Nd143-40225, 40820; Nd145- New	Sm,147,149,Nd143,145(n,a) wid. Sm149measured,other-improved	E	
500	Popov	J,NP/A,188,212,1972	4ZZZDUB	CJD	For 40225?	Sm147(n,a) <230eV, wid.	E	
527	Balabanov	J,NP/A,261,35,1976	4ZZZDUB	CJD	New	Sm147,149(n,a) 40494.003-corel (Sm149)?	E	+
531	Alfimenkov	J,NP/A,267,172,1976	4ZZZDUB	CJD	no data ?	Ho,Tb, no data for EXFOR ?	N/A	
556	Alfimenkov	J,NP/A,376,229,1982	4ZZZDUB	CJD	For 40522	Pr141,Tb159,Ho165,Er167, Tm169. spin J	N/A	
608	Muradyan	J,PL,14,123,1965	4RUSKUR	CJD	New		M	
630	Kondurov	J,PL/B,106,383,1981	4RUSLIN	CJD	New	Hf180m(n,inl) 52+-13 b	E (+ C,82KIEV,376)	
648	Briancon	C,93FRIBOU,192,1993	2FR SAC 4ZZZDUB	NEA DB CJD	New for 2FR SAC (T,KIM) 4ZZZDUB – for 41175 (add ref)	Review, refs.7,28 – therm.cap.CS Hf178m2 : 46+-5, 51+-10 b,resp. 2FR SAC(absent), 4ZZZDUB (41175) Refs.list could be checked	N/A	+
785	Erozolimsky	J,JNE,4,86,1957	4RUSKUR	CJD	New	=AE,1,(3),27,1956, Pu239(n,f) NU, RI	E	
793	P.A.Krupchinsky	J,JNE,6,155,1957	4RUSITE	CJD	New	Pu240(n,abs) CS, RI =AE,2,(3),240,1957	E	
794	Kirpichnikov	J,JNE,6,163,1957	4RUSITE	CJD	For 41255	=AE,2,(3),247,1957 Pu239, 7-30eV,ETA,WID	E	
801	Klimentov	J,JNE,9,20,1959	4RUSRUS	CJD	For 40368	RI Engl.tr.AE,3,507,1957	E	
812	Groshev	J,JNE/A,12,47,1960	4RUSKUR	CJD	New	=Eng.AE,6,281,1959, g-spectra, SJA,6,170,1960	E	
826	Vertebnyi	J,JNE/AB,20,479,1966	4UKRIJD	CJD	For 40046	misprint JNE-> JNE/AB AE,18,452,1965	E	

Table 2. Articles with misprints, comments for the feedback list, articles Not for EXFOR and articles that require further discussion to determine whether data should be compiled or not.

Author	Reference	Lab (exp)	Center	EXFOR #	Comment/Action	CINDA
COMMENTS FOR FEEDBACK LIST						
3	Ribon	C,65ANTWERP.,165,1965	2FR SAC	NEA DB	In 20146-p.565,#165 page 565(abstract) Add S,EANDC-50-S –full text C -> A Table 1-prelim.for Sub.004.,006.,007 ? Add Table II –res.areas?	E

4	Ribon	C,65ANTWERP,,166,1965	2FR SAC	NEA DB	In 20149-p.565 (#166)	page 565(abstract) Correct ref. C -> A Add S,EANDC-50-S – full text Add DEP,.058 in .056	E	+	
12	Coceva	C,65ANTWERP,,72,1965	2ZZZISP	NEA DB	In 21260	page 525(abstract) paper 72 Correct C -> A STATUS – Tables of S,EANDC-50-3 – data little different	E	+	
30	Hong	C,77GEEL,,624,1977	2GERKFK	NEA DB	In 20808	Add page 624 in 20808	E	+	
32	Moxon	C,77GEEL,,689,1977	2UK HAR	NEA DB	In 20828	Add page in ref. in EXFOR 20828 The same data table	E no page	+	
53	Brunner	C,66PARIS,1,61,1966	2SWTWUR	NEA DB	In 21025	Correct page 66 ->61 Add Errors –Table X, isotopic content Table XI	E	+	
284	Mutti	C,98VOLOS,200,1998	2ZZZGEL	NEA DB	In 22400	(p.204 in 22400,in CINDA, NSR) No page in PDF Misprint in page in Atlas 200 ->204	E	+	
323	Harada	J,NST,32,395,1995	2JPNYOK, 2JPNPNC	NEA DB	In 22295	Add partial errors-page101, add Tb.6 data as directly measured by 540keV gamma. Move in REL-REF in 22469,22967,22833, 22819, 22679,22642	E	+	
324	Nakamura	J,NST,33,283,1996	2JPNYOK	NEA DB	In 22819	Add Table 7 with decay flag as directly measured. Move in REL-REF in 22426	E	+	
341	Ohkubo	R,JAERI-MEMO-5824,1974	2JPNJAE	NEA DB	In 20818	5824 -> 5624 In 20818 add Gn0,Gn,J(Table 2), Table 3 data for isotopes	N/A	+	
344	P.Riehs	C,74PETTEN,,306,1974	2UK HAR	NEA DB	2nd ref.in 20451	Misprint 306 -> 300 (CINDA) Comments for feedback site: 90431->20451 .002->.006 .003->.007 in STATUS Subents 002,003. FLAG->MISC (add probability in Subent .006)	E	+	
578	Beer	J,NP/A,621,235C,1997	2BLGMOL	NEA DB	In 22446	Without C in page- add C in page field Correct misprints in data and data-err, Add Table 1 intensities, Table 2 data of level CS . In MONITOR .001 17-Co-35 -> 17-CI-35	E	+	
579	Jaag	J,NP/A,621,251C,1997	2GERKFK	NEA DB	In 22449	Add C in page field	E	+	
908	Moxon	R,AERE-PR/NP-4,16,1963	2UK HAR	NEA DB	In 22556(page 19->16 in.001), add In Au from figs.	prelim for: 21493.003(Fe56),.002(Fe54),.005-007Co, 20914 Rh(add STF), Ag(no data) In, Au(24 keV point on fig.)-New,low quality, add in 22556 as New Subents Th –prelim.for 21018.006 U- <Gg> -New, or for 20927 Pu – in 22556.002	N/A	+	
942	Egelstaff	R,NRDC-84,10,1955	2UK HAR	NEA DB	In 22555	Page 9 in 22555,Page 10->9 in Atlas. Review+evaluation In 22555 – only Th(refs.1,5), Taylor -> Sanders U238 (data from refs.1-4), Pu240 (ref.6 spsd 58GENEVA,p.422), Pu241 (ref.11)	E (Th only)	+	
978	Schneider	R,EANDC(E)-89U,43,1968	2GERMUN	NEA DB	In 20655	EANDC(E)-57-> EANDC(E)-89U in 20655 Add Table IV data of CS0	E	+	
982	Koester	R,EANDC(E)-157U,1973	2GERMUN	NEA DB	In 22595(page 45) In 22620	=INDC(EUR)-5 p.46 (22620) –add Mg, S,Si02 p.45(22595) – add data for Co,Mg,Sr,Ba,N (may be SPSDD by Newer?)	E SPSD Blocked with	20609 22620 20613 21660 22105 20603 20607 22595	
ARTICLES FOR DISCUSSION									
43	Andresen	J,ACJ,22,827,1968	2NORJEN	NEA DB	New if for EXFOR	Fe3Se4 neutron diffraction. Not for EXFOR ? (N,X)0-N-1,PM+,SPC ? Table of neutron intensities	N/A	+	
197	W.Bothe	J,ZN,1,179,1946	2GERMPH	NEA DB	New if for EXFOR	In German Table1 –decay data. Table 2 – isotope is not given, only HL and type of activity,	N/A	+	

						Cp = Lu ?		
216	W.-D.Schmidt-Ott	J,ZP,174,206,1963	2GERGOE	NEA DB	New if for EXFOR (gamma spectra?)	In German Co59(n,g)Co60m Zr90 Gamma spectra on figs – digitize ?	E	+
222	Michaelis	J,ZP,194,373,1966	2GERKFK	NEA DB	New if for EXFOR (gamma spectra?)	Michaelis-> Schmidt, Sr87(n,g)Sr88 g-spectra on figs- digitize?, Schmidt in CINDA	E	+
273	Eberle	R,KFK-1453,1,1972	2GERKFK	NEA DB	Calculations? Not for EXFOR? New if for EXFOR	In German Tables 3–calc. ?, Table 5 measured?(BR2, aus MOL6-A/1	C	+
453	Irigaray	J,NP/A,113,134,1968	2FR GRA	NEA DB	New if for EXFOR	Gamma intensities For EXFOR? Sr-87,88 In French	E	+
509	Kopeccky	J,NP/A,215,54,1973	2NEDRCN	NEA DB	New if for EXFOR	Cu63,65(n,g) R- polarization, defined in [17,18]	E	+
637	L.Jonsson	J,AF,35,423,1968	2SWDCTH	NEA DB	New if for EXFOR	Ne, thermal capture, lg gamma/100 captures-Table 1	E	+
872	Adahchour	J,JP/G,29,395,2003	2BLGBRU	NEA DB	Not for EXFOR ?	Analysis of exp.data RMT res.pars.	T	+
MISPRINTS IN ATLAS								
343	Kobayashi	R,KURRI-TR-7,72,1974	2JPNKTO	NEA DB	In 20691	Misprint TR->AR in Atlas	N/A	+
918	Pattenden	R,AERE-PR/NP-16,14,1969	2UK HAR	NEA DB	In 20021 (p.14)	Misprint in Atlas– page 14 absent No other work of Pattenden in this rep.	E 20021	+
955	Lockett	R,AEEW-M790,1954	2UK WIN	NEA DB		Misprint. I have AEEW-M790, but year 1968, authors James and Story.	N/A	--
ARTICLES NOT YET FOUND OR UNAVAILABLE								
897	Barclay	R,AERE-N/R-831,1951	2UK HAR	NEA DB		Pu240 SF NU - under access restrictions at UK National Archives	E	--
928	Bresemi	R,AERE-R-4500,221,1964	2UK HAR	NEA DB		Under access restrictions at UK National Archives	N/A	--
938	Tattersall	R,AERE-R/R-2459,1958	2UK HAR	NEA DB		Under access restrictions at UK National Archives	N/A	--
986	Nilsson	R,EANDC(OR)-18L,1962	2SWDAE	NEA DB		Page 1 ? Si,Ti,Cu	E	--
645	Barney	R,CL-RWS-20,1946	1USA ?	NNDC ?	Bailey? Manley? Bentley?	No such code in dict. No such author in EXFOR,NSR,CINDA. CL - -> AECL- ? (Canada)	N/A	
ARTICLES NOT FOR EXFOR								
73	Moxon	C,90MARSEI,41,1990	2UK HAR	NEA DB	Not for EXFOR (Naohiko confirmed)	Capture and transmission data (Table 1) were used to derive resonance parameters, which then were used to calculate CS (Table2)	C	+
163	Koester	J,EEN,80,1,1977	2GERMUN	NEA DB	Not for EXFOR	Review of exp+theo	C	+
188	Eberle	J,RCA,15,180,1971	2GERKFK	NEA DB	Not for EXFOR	Misprint Eberls(at site), in text –Eberle In German. Table –CS from other exps.,refs.could be checked	N/A	+
244	H.Weigmann	J,ZP/A,289,383,1979	2ZZZGEL	NEA DB	Not for EXFOR	Li6(n,a)H3	T	+
675	Axton	J,ANE,12,315,1985	2UK NPL	NEA DB	Not exp.	Mn55(n,g) cs – evaluation for 3 measurements Refs.from Table 1 Axton1982,1985(area2), Smith1984(area1) could be checked.	T	+
988	Moxon	R,NEANDC(E)-163U,1974	2UK HAR	NEA DB	Not for EXFOR	Misprint – meeting-1974, Publication-1975 Year 1975 p.159- Review and evaluation	E (recom.)	+
992	Knitter	R,NEANDC(E)-182U,3,1977	2ZZZGEL	NEA DB	No data for EXFOR	= INDC(EUR)-10/G On page 3, Knitter – no data . In 20749(Knitter) page 12.	E, Revw- no page	+