

Memo 4C-3/371

4 February 1994

To: Distribution

From: M. Lammer



**Subject: 1) NDS CINDA operations on the VAX  
2) Errors in CINDA master file, corrections  
3) Errors in CINDA batches CJD008-010**

**1) NDS CINDA operations on the VAX**

After a period of thorough testing of the CINDA programs, we have loaded the NDS CINDA master file from the IBM onto the VAX in December 1993. Several entries have been rejected as discussed in the next section. As of January 1994, all NDS CINDA operations will go through our VAX. Therefore, please, transmit all CINDA batches from now on via our internet mail address:

CINDA@IAEAND.IAEA.OR.AT

**2) Errors in CINDA master file, corrections**

During the loading of the CINDA master file, several old entries have been rejected. I checked them all and was able to correct them with one exception. I will transmit the corrections, which are already loaded in our master file, to all centres in 2 batches:

Deletions (CINDA.DELETE) have to be loaded first;  
Replacement entries (CINDA.ADD) to be loaded thereafter.

Listings of both batches and the entry that could not be corrected are given in Annex 1. Annex 2 gives the reasons for the corrections.

Distribution:

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3 spare copies

MLammer/sa x 1716

3) **Errors in CINDA batches CJD008-010**

When loading CINDA batches CJD008 to 010, the entries given below have been rejected:

- a) All entries with Lab = EPA. CJD is urged to send the information on that lab needed for the dictionary update. According to repeated agreements at the NRDC meetings new lab-codes must be transmitted before or at latest together with the CINDA batch or EXFOR transmission. Otherwise, all receiving centres will have continuous problems.
- b) The following entries for monoisotopic targets:

BE	TOTEPA491
C	GN EPA491
AL	GN EPA491
SC	EVLOIE422
MN	EVLOIE422

We expect that all centres will load the batch after communication of the lab-code, with rejection of the wrong monoisotopic entries which have to be corrected and retransmitted.

We urge CJD to update their check-program such that above mistakes should not occur any more since these are elementary mistakes that can very easily be detected.

Annex 1: Listing of DELETE and ADD entries

File: CINDA.DELETE:

D581702LI	NA ANL	1R3.0+33.0+53C70HEL	SIN 2	37006XP	Poenitz.	TABLE ABSOLUTE	SIGMAS	01USA900117
D746714H	2DINBON150E2.4+7	3JNP/A	346 1	1178009X	Vonwitsch+DEDUCED	NN EFFECTIVE	RANGEY2GER900105	
D907006H	2SINBUC421T9.0+89.9+93JRRP	36		159100X	Ion+.DUAL DIFFRACTIVE	RES FIT,NDG	\$3RUM920407	
D712661LI	NA FEI468E1.0+67.0+63JAE	24		666801X	Daruga+ INV REACT,N-SPEC,	ANISOTROPY	=4CCP781005	
D712662LI	NA FEI468E1.0+67.0+64JSJA	24		716801	. ENGL OF AE	24 66	=4CCP781005	
D413722CD	103LDLFEI421D1.0+68.0+63JYF	52		1258901X	Rastopchin+ LVL-D(E-EXCIT),	GRPH,CFD	O4CCP920701	
D413723CD	103LDLFEI421D1.0+68.0+64JSNP	52		7999011	.ENGLISH OF YF	52 1258	O4CCP920701	
D411528MD	258FRSFEI415RSpon	3JYK	1985 2	278500X	Vorob'eva+ TBL EXPTS:AVG	FRAG KIN-E	\$4CCP900312	
D411529MD	258FRSFEI415RSpon	4RINDC(CCP)	-292 8901	.PG 15.	ENGLISH OF YK	1985 2 27	\$4CCP900312	
D782157PB	208ND JAP150T3.5+86.0+83JNP/A	530		6799108X	Toki+DEEPLY BOUND PIONIC	STATES.DWIA222JPN920701		
D781895H	1DNGJUL150T2.0+8	3JPR/C	43	3949102X	Herrman+N-N BREMSSTRAHLUNG,	CURVS	22GER920131	
D414197AT	213NFYKAZ490MTx	6.0+73SZFK-732		509100X	Itkis+SYMM/ASYMM	RATIO	Z4CCP930429	
D414198AT	213FRSKAZ490MTx	6.0+73SZFK-732		509100X	Itkis+		Z4CCP930429	
D404750ZN	69SNGKUR485EMaxw	3C66MOSCOW		206602X	Groshev+ABST,ES+INT	FOR G,NDG	O4CCP870227	
D781301H	1DNGLVN150M7.6+7	3JNP/A	481	4248805X	Dupont+BREMSSTRAHLUNG,	EXPT CFD	THEO22BLG910807	
D781302H	1DNGLVN150E7.6+7	64EXFOR22206.		9105 22	PTS. IN 3 PARTS. N,P	EN SPEC, SIG22BLG910807		
D572502H	1GN MIT 1TNDG	3JPR	50	7483610X	Morse+ MAJORANA EXCH. SPIN	COUPLING.C1USA900117		
D587970LI	NA NRL 1T +6	3JPR	41	6833209X	Bacher+(INVERSE)N SPIN=1/2	FROM(A,N)21USA900117		
D782200U	238DELTHS150E7.8+6	3TGRUM		8911X	Grum.POL N'S.SPEC,ANG	DIST.GERMAN.	Z2GER920701	
D782201U	238DINTHS150E7.8+6	3TGRUM		8911X	Grum.POL N'S.SPEC,ANG	DIST.GERMAN.	Z2GER920701	

File: CINDA.ADD:

A746714H	2N2NBON150E2.4+7	3JNP/A	346 1	1178009X	Von Witsch+.DEDUCED	N-N EFFECT	RANGE02GER900105
A907006H	2SNBBUC421T9.0+89.9+93JRRP	36		159100X	Ion+.DUAL DIFFRACT	RES FIT,TBL PARS	O3RUM920407
A413722CD	109LDLFEI421D1.0+68.0+63JYF	52		1258901X	Rastopchin+ LVL-D(E-EXCIT),	GRPH,CFD	O4CCP920701
A413723CD	109LDLFEI421D1.0+68.0+64JSNP	52		7999011	.ENGLISH OF YF	52 1258	O4CCP920701
A411528FM	258FRSFEI415RSpon	3JYK	1985 2	278500X	Vorob'eva+ TBL EXPTS:AVG	FRAG KIN-E	O4CCP900312
A411529FM	258FRSFEI415RSpon	4RINDC(CCP)	-292 8901	.PG 15.	ENGLISH OF YK	1985 2 27	O4CCP900312
A782157PB	208ND TOK150T3.5+86.0+83JNP/A	530		6799108X	Toki+DEEPLY BOUND PIONIC	STATES.DWIA02JPN920701	
A781895H	1DELJUL150T2.0+8	3JPR/C	43	3949102X	Herrman+N-N BREMSSTRAHLUNG,	CURVS	22GER920131
A404750ZN	SNGKUR001EMaxw	3C66MOSCOW		206602X	Groshev+ABST.GAM	ES+INTENS.NDG	O4CCP870227
A781301H	1DELLVN150E7.6+7	3JNP/A	481	4248805X	Dupont+.BREMSSTRAHLUNG.	GRPH N,P-SPEC	O2BLG931220
A781302H	1DELLVN150E7.6+7	64EXFOR22206.		9105 12	PTS:N-SPEC;9	PTS:P-SPEC	O2BLG931220
A572502H	2GN MIT 1TNDG	3JPR	50	7483610X	Morse+ MAJORANA EXCH. SPIN	COUPLING.01USA900117	
A782200U	238DELTHS150E7.8+6	3TGRUM		8911X	Grum.POL N'S.SPEC,ANG	DIST.GERMAN.	O2GER920701
A782201U	238DINTHS150E7.8+6	3TGRUM		8911X	Grum.POL N'S.SPEC,ANG	DIST.GERMAN.	O2GER920701

remaining uncorrected entry:

A404645FE	189SNGUZB485EMaxw	3C69EREVAN	1	1426902X	Muminov+ES+INT	FROM (N,G),TBL	O4CCP870227
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## Annex 2: Comments on rejected entries

### Area 1:

- LI NAANL001: Forbidden reaction - should be AEM. Deleted, as only considered as monitor in reference given (no data).
- LI NA NRL468: Forbidden reaction - comment: "INVERSE", which is impossible; original reference not available. Entry deleted.

### Area 2:

- H 001DNGJUL150: Forbidden ZAQ; measured bremsstrahlung from n-scat;  
H 001DNGLVN150: DIN or DNG wrong as "inelastic" per definition is for level excitation only; compromise: DEL (corrected).
- H 002DINBON150: Forbidden reaction; measured  $(n,2n)p + (n,np)n$ ; corrected to N2N.
- PB208ND JAP150: Lab JAP invalid; corrected to TOK (checked article)
- U 228DELTHS150: Not a valid nuclide; reference: thesis Grum, not available;  
U 228DINTHS150: checked 82Antwerp p.783 with same author, lab and energy: U-238 measured; assumed typing error, correction: U238 DEL and DIN.

### Area 3:

- H 002SINBUC421: Forbidden reaction; changed to SNE

### Area 4:

- LI NA FEI468: Forbidden ZAQ; comment: "INV REACTION", which is impossible; original reference: Li  $(\alpha,n)$  was measured, in addition to  $(d,n)$  and  $(p,n)$ . Therefore, LI NA is wrong and was deleted. For the latter 2, also corresponding inverse LI ND and NP were coded which should be deleted as well.
- ZN069SNGKUR485: not a valid nuclide for CINDA.  
Original reference 66MOSCOW 20 not available.  
Assumed: full paper publ. in IZV 30 1136, checked that:  
    measured: natural Zn gammas,  
    assigned: Zn isotopes produced and levels.  
Corrected: Zn (natural) SNG
- CD103LDLFEI421: typing error; should be CD109 (corrected)
- AT213NFYKAZ490: deleted: charged particle induced fission  
AT213FRSKAZ490:
- MD258FRSFEI415: Review YK 1985 2 27 cites as original reference PR/C 21 972; reaction measured:  $Es255(\alpha,n) \rightarrow Md258(ec) \rightarrow Fm258(sf)$   
The mistake is in the review YK 1985 2 27;  
I informed author Kuzminov and CJD in May 1990.  
Corrected to FM258 FRS (spont.fiss.)
- RE189SNGUZB485: Not a valid nuclide for experiment; original reference 69EREVAN 1 142 not available. **NOT CORRECTED!!**