

Memo 4C-3/170

To: Distribution
From: *Skane Lemmel*
G. Lammer + H.D. Lemmel
Subject: 4C-Meeting

29 June 1976

The Draft Minutes of the 4C-Meeting are being typed. Please find attached advance copies of the following pages:

Actions
Recommendations
Conclusions (Cinda)
Conclusions (Exfor) relevant to
 a) NND
 b) NND and CPND
 c) CPND

The Exfor conclusions also include items decided at the CPND meeting.

We should appreciate receiving comments. Please, note that due to the shortage of time not all Exfor conclusions were discussed in sufficient detail at the meeting, so that some conclusions may contain some interpretation by NDS which we hope you will approve. See corresponding notes. Some minor changes may come up when finalizing the Minutes.

Attachment

Distribution:

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ACTIONS

Action	On	
1	Marcinkowski Rapeanu	to communicate to NDS all mistakes found in CINDA.
2	NDS	to forward any comments received under action 1 to the responsible centres.
3	all centres	advise Cinda-indexers to include in the comments "NDG" whenever appropriate.
4	NDS	include in the CINDA 76-Book and all further editions some form sheets for user-response.
5	NDCC	keep the other centres informed on the development of its new CINDA coverage control system.
6	all centres	inform NDS about their status of Cinda coverage before book dead-line.
7	all centres	currently inform the other centres which report- and journal- series are not directly scanned for Cinda, but covered through INIS-retrievals.
8	all centres	CINDA-coverage of old references: primarily gaps in main journal-series should be detected and covered. Other missing entries could rather be detected by checking the literature cited in evaluation reports.
9	NDCC	provide the other centres with a reference list to the current Cinda-file.
10	CJD	provide NDS with coverage control-entries of Soviet laboratory-reports.
11	Holden	communicate H. Goldstein's gap list to the other centres, as soon as it is available.
12	NDCC	look into the possibility of sending all CINDA-listings in the same quantity-sort as in the book.
13	NDCC	investigate the possibility of providing CINDA-listings where records within a block are sorted as in the book.
14	NDCC	to prepare a memo concerning the replacement of "main" entries in a Cinda block, and concerning the operations in a "headless" block.
15	NDCC	before the next 4C-meeting report to the other centres whether duplicates in the CINDA file can be eliminated automatically.
16	NDCC	clearly define the use of the "no book flag" in the Cinda-Manual, based on the minutes of the 11th and 12th 4C-meetings.
16a	NDS	to request from NDCC at regular intervals CINDA retrievals of recent entries prepared by NNCSC and NDCC for papers by labs of areas 3 and 4, and to review the blocking of these entries.

Action	On	
17	all centres	review the lab-dictionary and provide NDS with information and cross-references about related labs and codes for inclusion in the Dictionary
18	NDCC	update the Cinda Manual according to Conclusion 3 about indexing of evaluated data
19	NNCSC	Investigate the feasibility of indexing ENDF and ENDL in Cinda.
20	all centres	exchange views and information about existing practice in style and content of comments in data index lines.
21	NDCC	retrieve from Cinda, by area, the N3N and the FPG entries and send them to the centres responsible.
22	all centres	revise the N3N and FPG entries according to the Conclusions 6 and 7 about Cinda-quantities.
22a	NDS	replace REM and NPR entries by appropriate quantities.
23	NDS	change the definitions in the Cinda-book according to these conclusions.
24	all centres	advise the Cinda-indexers on the correct use of LDL, based on Conclusion 8.
25	NDCC	combine the definitions of TSL given by Holden and Goldstein, and by NDS, for inclusion in the Cinda-Manual.
26	NDCC	update the Cinda-Manual according to the revisions agreed in the Conclusions 6-12, i.e. for the quantities: NXN, FPB, RIA, RIR, RIG, LDL, TSL, REM and NPR; and for the metastable state of the target.
27	NDCC	issue a memo about the agreed revisions of quantity definitions, including the codes and internal numerical equivalents.
28	NDCC	investigate how "neutron" as a target can be entered in Cinda, and to contact NDS how this would affect the book printing programme.
29	NNCSC	issue a Lexfor entry stating for which quantities the target "neutron" is entered.
30	NDS	include the French Fission Product Library (Blachot) as well as ENDF-201 in the handbook section of the Cinda-book.
31	all centres	prepare 4C-memos containing proposals for the future Cinda publication schedule from 1978 onwards, bearing in mind the recommendation of the 8 th INDC-meeting of publishing an archival Cinda-book for the older literature.
31a	NNCSC, NDCC,	to remind Cinda indexers of using the "cosmetic" indexer symbols where appropriate in order to reduce the noise in the supplement books.
32	Dunford	report to NDS about any changes in the submission of US WRENDA information after the May 1976 USNDC Meeting

Action	On	
33	all	(continuing action 44 from 11th 4C-meeting) to inform other centres about documentation of evaluations and about evaluations or comparisons of available evaluations going on within the centre's area.
34	all	(continuing action 43 from 11th 4C-meeting) try to get from users feedback information on status and quality of evaluated data files.
35	CJD	send the preprints of 75 Kiev Conference about comparison of different evaluations to NDS.
36	NDS	initiate translation of these reports and distribute to the other centres.
37	all centres	to provide the other centres with any information available about which types of data were never or rarely requested and whether preliminary data are needed by customers.
38	NDCC CJD NNCSC	respond to Memo 4C-3/165 concerning completeness in EXFOR.
39	all centres	communicate to the responsible centres any complaints on adequacy of experimental data supplied to users and to data specialists' meetings and conferences.
40	all centres	the members of centres who attend conferences or technical meetings should communicate any material on new data to the centres responsible.
41	all centres	(continuing action 29 from 11 th 4C-meeting) It would be desirable for all centres to send a status list of Exfor entries when sending a Trans-tape (status list to include: data sets compiled but not yet transmitted and data sets being compiled).
42	all centres	(action 31 from 11 th 4C-meeting continuing) Compare the translated SCISRS-I data (50000 and 80000 series tapes) with regular Exfor entries and communicate correspondences. Continue to clean up the 50/80 000 series.
43	CJD	apply the new check programme to the next EXFOR-tape and provide the other centres with the checking specifications used.
44	NDCC NDS NNCSC	send the output of the checking of this tape to CJD.
45	NDS	request from NDCC those EXFOR entries for retransmission where errors have been found.

Action	On	
46	NDS	retransmit TRANS-Tape 3020 in 7-track format to CJD.
47	NNCSC, NDCC, NDS	for the time being tapes sent to CJD should start with a short dummy file.
48	Lemmel	write a Memo about compiling in EXFOR different results for the same isoquants obtained by different ways of analysis from the same experiment. Such data have to be entered into different sub-entries, related by some status code.
49	all centres	when quoting errors, include in 4C-Memos precise reference to the EXFOR-Manual.
50	NNCSC	transmit changes in the EXFOR Manual to the other centres at latest about one month after a 4 Center-decision has been agreed or after the draft minutes of a 4C-Meeting have been received.
51	all centres	(action 25 from 11 th 4C-meeting continuing) review Exfor Manuals in order to make them more compatible with checking programme specifications.
52	all centres	(action 26 from 11 th 4C-meeting continuing) Exfor user (e.g. experimentalists) Manuals prepared at each centre should be exchanged between centres for comments and suggestions.
53	NNCSC	(action 28 from 11 th 4C-meeting continuing) to investigate the possibility of restructuring EXFOR/LEXFOR manuals so as to separate the format material from the procedures material.
54	all centres	send suggestions for reports to be referred to in the LEXFOR Manual to NNCSC.
55	NNCSC	prepare detailed analysis of the problems involved in converting neutron-EXFOR to generalized EXFOR as a basis for an implementation schedule as soon as possible after the meetings.
56	all centres	(action 2 from 10 th 4C-meeting continuing) (a) Centres having received specialized compilations in any format should signal their existence to other centres. (b) Inform interested centres of any significant changes in EXFOR.
57	all centres	(action 29 from 10 th 4C-meeting continuing) Requests from other centres should be acknowledged within a few days of receipt, giving a detailed status for each request, including "no data available" if applicable.

Action On

- 58 all centres (action 30 from 10th 4C-meeting continuing)
Inform the other centres when initiating a data review or special-purpose compilation, so that appropriate data may be transmitted with preference.
- 59 NNCSC inform the other centres about the availability of the Nuclear Data Project capture gamma ray and other computerized data files.

Recommendations

1. (about coding of Cinda entries at the centers)

CINDA has a long history of being a useful condensation of the bibliography to neutron data. Recent efforts to block entries pertaining to a single experiment, to improve literature coverage, and to correct older entries where required, have increased the usefulness of CINDA. This and the fact that CINDA has also become an index to experimental data files resulted in an increasing interest on the part of research scientists in the CINDA publication, its supplement, and its comprehensive and up-to-date coverage.

Because of

- the need to combine the EXFOR and CINDA compilation for the blocking of relevant CINDA entries, a task which can be carried out only at the centres;
- the fact that the coverage responsibility for both CINDA and EXFOR resides already within the centres; and
- the need to have updates performed as often as possible and not only at the approach of the book deadline, in order to make the CINDA file adequate for "current awareness" searches;

the 4 centres strongly believe that the literature scanning, the preparation of CINDA entries and the Exfor compilation should be performed by the data centres.

2. (about invitations to Four Centre meetings)

The participants confirmed that the annual Consultants' Meetings of the Neutron Data Centres could serve their purpose with optimum profit only when each Centre is represented by its head for discussing and deciding policy matters, and by a technical expert who is familiar with all technical matters to be discussed.

It was therefore recommended that the IAEA continue its previous practice of inviting two representatives from each centre to these meetings, and paying for them.

CONCLUSIONS re CINDA

Coverage Control in Cinda

- C 1 The development of a coverage control system at NDCC is considered important and should be given high priority.

Clean-up in Cinda

- C 2 From 1 January 1976 onwards, all entries into Cinda are currently blocked by the responsible centres.

Indexing Evaluated Data in Cinda (see also actions 18-20)

- C 3
- a. Documents and data index lines are entered under the CINDA quantity "Evaluation" only, if they contain full evaluations of all or most significant quantities. The comment should contain some information whether the evaluation is comprehensive or partial.
 - b. If additional entries are made for individual quantities, these get the no-book-flag.
 - c. Evaluations of single quantities continue to be entered under the relevant quantities and not under the quantity "Evaluation".
 - d. Documents reporting many evaluations contained in a large library are entered in the handbook-section.
- C 4 ENDF and ENDL are so far not indexed in Cinda. The matter will be further reviewed.
- C 5 Documents on evaluations which do not contain data are also entered under the quantity "Evaluation" with a comment "No data given". If such documents do not contain detailed data but, for example, resonance parameters, an entry under "RES" should be made in addition to the entry under "Evaluation".

Cinda quantities (and targets) (see also actions 21-29)

- C 6 The quantity N_{3N} is changed to N_{xN} (where $x \geq 3$), to include all reactions producing 3 or more neutrons. The comment should state whether only N_{3N} or also other reactions are included. NDCC will retrieve, by area, N_{3N} entries in card image form, and send it to the relevant centres for appropriate revision.
- C 7 The quantity FPB (Fission Product Betas) is introduced, for entry under the fissioning nucleus only, not under the fission product nuclei. NDCC is to retrieve FPG entries by area, and to send the retrievals to the centers for reviewing them and adding FPB entries where necessary. These FPB entries do not get the "cosmetic" indexer symbol.

- C 8 From now on LDL entries are coded with the nucleus to which the quantity given refers. Explanation is given in the book indicating to users that old LDL entries still refer to the target nucleus. Level spacings derived from resonances are not entered under LDL. Old entries contain a lot of errors which should be tidied up as time allows. The use of LDL is restricted to LDL data deduced from energy distributions of gammas or particles from neutron induced reactions.
- C 9 4C-3/155 about resonance-integrals is accepted.
- C 10 Metastable targets are noted in comments.
- C 11 With respect to TSL the definitions by Holden + Goldstein and the proposed Manual text by NDS is accepted and will be combined by NDCC.
- C 12 Memo 4C-3/164 re REM and NPR is accepted.
- C 13 NDCC shall investigate how "neutron" as a target can be entered in Cinda, and to contact NDS how this would affect the book printing program. NNCSC shall issue a Lexfor entry stating for which quantities the target "neutron" is entered.

Conclusions about the NND Exfor system

Rules specific to NND

1. The proposal contained in Memo 4C-1/76 section D about angular correlations and triple differential cross-sections is postponed until conversion from ISO-QUANT to REACTION formalism since the quantity codes proposed are too long for inclusion in dictionary 14.
2. Memo 4C-1/77 (dispatched 76/4/2) proposing a Lexfor entry on resonance integrals is accepted, except for the sentence "If no value of the cutoff energy is given it may be coded as 0.5 eV". In such case 0.5 eV may rather be entered under the column heading EN-APRX. Alternatively a comment on the cutoff energy may be entered in free text only until further information is received from the author.

Also, the Note on page 2 of Memo 4C-1/77 should be revised such that all resonance integrals, disregarding whether they were directly measured or deduced from $\sigma(E)$ measurements, may be coded in Exfor with appropriate explanation in free text and under STATUS.

3. For data entered under NUC-QUANT the column heading EN must not be given. If the incident neutron energy is not irrelevant as may be the case for level density parameters, it may be entered in free text. (This is to be added on Manual-page VIII.16.)
4. Memo 4C-1/80 (dispatched 76-4-12) on pointers and standards was accepted (except for the last 3 lines which are discussed elsewhere in the present conclusions). The contents of this memo should be included in Lexfor under Standard. The column heading keywords STAND1 and STAND2 are not obsolete.
5. The Lexfor entry on Single-Level Resonance Parameters proposed in 4C-1/78 (dispatched 76/4/12) was accepted with some minor modifications:
 - Under 1) Resonance energy: a) When the resonance energy is determined ... (instead of assigned)
 - 4 lines further below: omit the word "only"
 - Under 2) Resonance widths: keep the definition of Γ_γ from the previous Lexfor entry
 - last line of same page: write units throughout in the style of column-headings: EV, MILLI-EV, etc.
 - Under 3) Reduced neutron widths: the characters "nu" and "v" are inconsistent
 - omit the note: "E is in eV". In the formulae given E may have any unit. Example: $E_0 = 1.2^{\circ}\text{keV}$, then $1.2 \text{ keV/eV} = 1200$ which is to be entered in the formula.
 - Under 4) Peak cross-section: Add to the "Note" NF, RES, TER. (A probably preferable correction of NF, RES, TER into NF/PCS, TER should be postponed until the conversion from ISO-QUANT to REACTION formalism.)
 - Under 5) Resonance area: the factor in front of the ratio is inconsistent and disagrees with previous Lexfor entry. Action ... on NNCSC to check what is correct. Also the units should be mentioned.
 - Under 6) Special representations: there is a typing error in the code ... SQ/SC
6. The question of Fission Yield Standards (see proposed Lexfor entry in Memo 4C-3/122 of 75/5/13) was postponed until after the conversion from ISO-QUANT to REACTION formalism.
7. The "multiple-isomeric" formalism for isomeric cross-sections (compare item ... of the CPND Exfor conclusions) is not yet accepted for NND.

Conclusions relevant to the NND and CPND Exfor systems

EXFOR structure

1. The SUBENT record may contain in field N₅ (cols 56-66) center internal information which is of no interest to recipients of the entry. (Although this is a KaChaPaG internal matter, this should be added in the Manual on page III.6, in order that Exfor users may find an explanation of the meaning of this field, and in order to avoid that this field is assigned a different purpose.)
2. Col. 67 in the ENDTRANS record is to contain the number of character of the originating center, followed by 9's in col. 68-79. (This applies for center-to-center transmission tapes where throughout the tape col. 67 contains the code of the originating center. In other tapes which may contain Exfor entries from various centers, the record identification field cols, 67-79, of the ENDTRANS record should be such that it sorts at the end of the tape. Compare Manual page III.3.) Action ...
3. Trailing records to fill up the last block should be repetitions of the ENDTRANS record.
4. It should be stated explicitly in the Manual (e.g. on page V.1. and VI.1.) that in the COMMON and DATA sections the number of columns is unrestricted.

Pointers, etc.

5. Pointers may be used in subentry 001 if they apply to all following sub-entries.
6. Compilers are reminded of the rule that a pointer in the BIB-Section refers to all subsequent records until a new pointer or keyword is encountered.
7. If two different numerical results of the same quantity are obtained from the same experiment by two different ways of analysis or normalization, two separate subentries must be made, linked to each other by appropriate STATUS information. The solution with pointers as illustrated in the following example

```
ISO-QUANT (...)  
ANALYSIS 1 (...)  
          2 (...)  
  
ENDBIB  
DATA  
EN      DATA      1DATA      2
```

is so far not accepted by all centers and can therefore not be used in Exfor transmission tapes.

8. In general pointers are used only when the data table contains more than one DATA column. The different DATA columns are defined, by means of pointers, either by the quantities coded under ISO-QUANT/REACTION or by the parameters entered under COMMON. In addition, items of BIB information may be labelled by the same pointers.

In the following example pointers may be used within a BIB Section even if the data table contains only one DATA column without a pointer.

```
DETECTOR 1 (...)  
          2 (...)  
PART-DET 1 (...)  
          2 (...)
```

(Note: We are not sure whether this formalism, which was accepted for CPND, is also acceptable by all neutron data centers for NND. We believe however that it should not create any difficulties.)

Dictionaries and codes

9. The code XR for X-rays is accepted in dictionary 13. The origin of the X-rays (K, L, M etc.) is not coded but may be given in free text.
10. The length of the codes in dictionaries 16-23 remains restricted to 5 characters. Action ...
11. The codes proposed in Memo CP-E/1, item 2, as addition to Dict. 22 on Detectors were accepted. However, the code for "position sensitive solid state detectors" was changed to PSSSD.
12. In dictionary 24 the keywords of the type HLn will continue to be given explicitly as HL1, HL2, HL3, etc., since check programs in various centers need to have these codes in dictionary 24. NDS will enter additional such keywords in dictionary 24 as they occur, and will enter for each of these keywords one or two additional varieties, e.g. HL4 etc. in order to obtain more flexibility. (This is in reply to the proposal on the bottom of Memo 4C-1/80, dispatched 76/4/12). Action ...
13. The codes proposed in Memo CP-E/1, item 3, as additions to Dict. 25 on Units were accepted.
14. Dict. 25 on Units will continue to include all unit-keywords, and the idea to construct the unit-keywords from certain elements such as MU-, N-, P-, F- for micro, nano, pico, femto, was not accepted. However, whenever new unit-keywords are introduced, such prefixes should be used in a consistent manner.
15. The decay units DPS and MUCIE/MUA are both entered in dict. 25. In Exfor entries preferably the same units should be used as given by the author.
16. The column-heading keyword RATIO and SUM are kept (SUM so far in CPND Exfor only). NDS should clarify their use. Action ...

Rules

17. The Lexfor entry on "Nearly monoisotopic elements" as proposed in item E of memo 4C-1/76 of 76-3-26 is accepted and shall be added to the Lexfor entry on "Monoisotopic elements". (Note by editor: On this Lexfor page the element symbols should be written consistently with capital characters only.)
18. If the coded information under DETECTOR starts with COINC, then all detector codes following in the same pair of parentheses refer to the coincidence arrangement. Any other detector to be coded must be given in a separate line, as for example

DETECTOR (COINC, DET1, DET2). FOR XYZ RADIATION
(DET3). FOR UVW RADIATION

In the parentheses describing the coincidence arrangement, a detector code may be given more than once.

(Note: This formalism was not formally adopted for NND. We believe however that it would not disturb any existing programs so that it should be acceptable also for NND.)

19. Isomeric ratios and sums are entered in addition to the partial isomeric cross-sections only when they were given by the author and when the numerical values, e.g. of the errors, contain additional information.
20. The revised Lexfor entry proposed in Memo 4C-3/162 of 76/4/7 about differential cross-sections relative to its value at a given angle, is accepted.
21. The rules for the use of the keyword ANALYSIS should be clarified in Dict. 2.
22. The proposal about the coding of metastable states of the residual nucleus where the sequence number of the state obtained may be unknown, was accepted as proposed in KaChaPab Information Nr. 1 pages 1/2.
23. For certain keywords the prescription exists (~~Manual~~ page IV.2) that any information given in parentheses must be repeated in free text. Thus, in an "edit" program the coded information may be ignored in these cases.
If the compiler prefers not to repeat the coded information in the free text, a point is entered in the position following the closing parenthesis. In an "edit" program this point serves as an indicator that the coded information requires expansion.
(In many old entries a blank free-text field between closing parenthesis and col. 66 also indicates that the coded information requires expansion in an "edit" program.)
24. The proposal to allow in the DATA-section for semi-numerical data, such as "smaller than", $7/2-$, X for a blank, etc., was not accepted, since this would create difficulties in programming and since not all computers accept a symbol like "smaller than".
25. The BIB-Section in Exfor has its name for purely historical reasons. It rather functions as a "TEXT"-Section containing bibliographic, physics and administrative (e.g. HISTORY) information. (This clarification should be added on the top of page IV.1 of the Manual.)
26. If original data are given together with deduced values within the same subentry using the "multiple-isoquant" resp. "multiple reaction" formalism with pointers, then a note "DEDUCED QUANTITY" or "DEDUCED FROM ..." should be given in free text behind the isoquant/reaction concerned.

Conclusions about the CPND Exfor system

REACTION

1. The coding rules under the keyword REACTION appear to be practicable. No objection to this concept was received. (Action 15 from previous meeting, which was to test the feasibility of this concept, is regarded as fulfilled.)
2. For the codes used under the keyword REACTION the following dictionaries are introduced

Dict. 30	on	Process	in Subfield 3
Dict. 31	on	Branch	in Subfield 5
Dict. 32	on	Quantity measured	in Subfield 6
Dict. 34	on	Modifiers	in Subfield 8
Dict. 35	on	Data type	in Subfield 9

The checking programs and the convenience of the compilers require to have a separate dictionary for each of the subfields. The contents of these dictionaries will be as specified in Memo CP-C/1, with some modifications as specified further below.

3. In subfield 3 of REACTION, two identical outgoing nuclides heavier than α are coded in the form $8-\phi-16+8-\phi-16$. The proposals of coding this case in the form $2*8-\phi-16$ or $2\phi-16$ were not accepted, because the first case would require an extra programming branch for the star, and the second case would result in unsystematic coding of nuclides, since it was agreed to keep the Z-number for the target nucleus.
4. The code SEQ is introduced in dict. 31 (REACTION subfield 5: branch) indicating that the sequence of outgoing particles as specified in subfield 3 under REACTION is meaningful. In this case the general rule of coding outgoing particles in the sequence of increasing Z and A does not apply, and the residual nucleus is not necessarily the heaviest of the reaction products. (This decision also answers the proposal expressed in Memo CP-E/1 item 6).)
5. The codes M+, M-, and (M) are coded in the branch field and not in the modifier field under REACTION.
6. The code (CUM) in dictionary 31 (branch), which has a length of 5 characters instead of the usual 3, is accepted unless a code of this length creates too great difficulties in the programs of one of the centers. (Action ...)
7. In Dictionary 32 (Quantity measured) the code YLD as proposed in Memo CP-C/1 was not accepted. The codes FY and PY are kept. PY is reserved for a product yield under undefined experimental conditions where SIG or TTY do not apply.
8. The codes proposed in Memo CP-E/1, item 1), for the "BRANCH" subfield under REACTION were not accepted since they were considered as not necessary for a unique description of the reaction and quantity measured.
9. If someone wishes to code ions in Exfor under REACTION or elsewhere, this will be done in the form $8-0-16(3+)$.

10. The "multiple-reaction" formalism with pointers may be used for the isomeric branches and ratios of the same reaction such that

total reaction cross-section,
partial cross-sections leading to isomeric states,
sums and ratios of partial cross-sections

may all be entered in a single subentry, provided that the target nucleus, the incident particle and the outgoing particles are the same. This possibility is so far restricted to CPND.

Items other than REACTION

11. For other codes, the existing dictionaries are used. The existing limitations in the length of codes (up to 5 characters in Dictionaries 16-23) are left unchanged. Action ...
12. Under the keyword FACILITY different pairs of facility codes and lab-codes of the form (FACIL, 3NNNLAB) must be coded on separate lines.
13. KaChaPaG had given some monitor reactions in coded form and some in free text only. It was claimed that sometimes monitors seem to be doubtful and that in such cases the free text was preferred. Meeting participants found this procedure not clear enough and suggested that an explanation in free text would be desirable, for example in the form of a "COMMENT BY THE COMPILER ...".
14. Alphabetic characters (instead of a digit in NND Exfor) to be entered in col. 67 and in the first position of accession-numbers, are accepted, despite of programming difficulties of some of the centers.