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Date: 16 April, 2010
To: Distribution
From: N. Otsuka, E, Dupont
Subject: **Future NRDC Cooperation on CINDA**

1. Background

There are two proposals about CINDA cooperation agreed in the 2003 NRDC meeting:

- 1) WP2003-25: CINDA Protocol
- 2) WP2003-26: Future NRDC Cooperation on CINDA

See also Conclusions 12 and 19 of this meeting.

- WP2003-25 Item 2 mentions

A subset of the original “core” centres will be responsible for all CINDA transmissions. That is, the NNDC will be responsible for the US and Canada, the NEA Data Bank will be responsible for the NEA member countries, and the NDS will be responsible for the rest of the world. All other centres compiling new references will transmit the data through one of these three centres.

- WP2003-26 Item 3 mentions

For new CINDA entries, an agreement will be reached with the centre responsible for coordination of coverage as to who will compile which references. After the entries are compiled, they will be sent through the co-ordinating centre to NDS. NDS will check and distribute the entries.

- WP2003-26 also mentions

From 2004 forward, CINDA will be considered to be an index to the experimental and evaluated data, that is, entries for theory (except those given in EXFOR entries), compilations, and reviews will not be entered in CINDA.

2. Current CINDA compilation (manual input)

Since the 2003 NRDC meeting, there has been no agreement for assignment of references, and therefore exchange of CINDA is not wholly functional now: NEA Data Bank has covered European theoretical works for neutron induced reaction until the year 2008 included, and also two Japanese centres (JAEA and JCPRG) are continuing compilation for works published in Japanese publications (JPJ, PTP, NST, JAEA reports). NDS occasionally adds a few corrections to existing CINDA lines.

3. Conversion from EXFOR to CINDA

The conversion program from EXFOR to CINDA works well at NDS, and therefore CINDA is complete for all experimental works relevant to EXFOR if EXFOR entries

are made in timely manner. For evaluation works, conversion has been successfully done for several libraries (e.g. ENDF-B/VII.0, JENDL-HE and JENDL-PD).

4. Advantage of manual input (new input and correction)

On the other hand, there is also an advantage to keep possibility of manual input in the CINDA update procedure, because comments given by CINDA compilers are better than comments generated by the conversion program if CINDA compilers are available. In addition, we need to keep possibility of manual corrections to existing CINDA entries.

5. CINDA as EXFOR coverage list

CINDA has been also a list of the articles which should be compiled in EXFOR. NDS is now scanning all journals relevant to EXFOR and update the list of articles in the EXFOR coverage control system. During the one-year trial in 2009, however, NNDC found several articles which are published in US journals and could not be found by NDS. This reveals that the idea of systematic scanning of journals by centres is meaningful for EXFOR completeness. We have to follow the agreement of journal coverage (C11 of the NRDC2006 meeting).

Proposal

The following NRDC cooperation is proposed for future CINDA:

- 1) Agreement on WP2003-25 item 2 will be cancelled.
- 2) Theoretical works and reviews will be accepted in future transmission.
- 3) Centres willing to be responsible to CINDA input can continue (or start) compilation of CINDA entries after notification of their compilation scope (journal, conference, data library, experimental, theoretical etc.) to NDS.
- 4) Originating centres will send their CINDA entries to NDS.
- 5) NDS will periodically update the CINDA master file and distribute it to other centres.

Remark

Each NRDC centre has to scan assigned journals tabulated in the proceedings of NRDC2006 (INDC(NDS)-0503, page 26) for the EXFOR Compilation Control System, and send the list of articles relevant to EXFOR compilation to NDS. NDS will update the list generated from the system periodically.

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