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Memo CP-E/104 (Revised)

Date: November 22 2006
To: Distribution
From: OTSUKA Naohiko
Subject: Bibliographical information (TITLE, AUTHOR) from several references

I find many Japanese secondary references (e.g. conference proceedings) in the EXFOR compilation control database. Some of them have not been compiled, but published later again as main publications and compiled by JCPRG, In TRANS.E039 I added some secondary references from the database into existing entries. For example I added a conference proceedings published in Nucl. Phys. A Vol.738 into E1791.001 as follows:

```
…
AUTHOR     (T.Zheng, T.Yamaguchi, A.Ozawa, M.Chiba, R.Kanungo,   E179100100005
           T.Kato, K.Katori, K.Morimoto, T.Ohnishi, T.Suda,     E179100100006
           I.Tanihata, Y.Yamaguchi, A.Yoshida, K.Yoshida, H.Toki, E179100100007
           N.Nakajima)                                           E179100100008
…
REFERENCE  (J,NP/A,709,(1-4),103,200210) Main reference          E179100100013C
           Title and authors are coded under TITLE and AUTHOR.   E179100100014I
           (J,NP/A,738,(1-4),38,200406)                          E179100100015I
           A.Ozawa+, Proc. of the 8th International Conference on E179100100016I
           Clustering Aspects of Nuclear Structure and Dynamics   E179100100017I
            (CLUSTER'03)                                          E179100100018I
```

Users possibly extract bibliographical information from `AUTHOR` and `REFERENCE`, and add

"T. Zheng, T. Yamaguchi, A. Ozawa, M. Chiba, …, Nucl. Phys. A 709 (2002) 103".

into reference lists of their publication. Similarly the NDS web service provides

```
         T.Zheng+ 2002 J,NP/A,709,(1-4),103,200210
```

in the list of search result, or

```
@article{J_NP/A_709_(1-4)_103_200210,
…
  author={Zheng, T. and Yamaguchi, T. and Ozawa, A. and Chiba,…
…
```

for BibTeX. These are right for the E1791 case, because I put the title and authors of the main reference (corresponding to the first code under `REFERENCE`) under `AUTHOR` and `REFERENCE`, respectively. However the EXFOR format rule does not guarantee this usage of combination of `AUTHOR` and `REFERENCE` in general. The first name coded under `AUTHOR` may be different from the first author of the first reference coded under `REFERENCE`.

Example (22687.001):

```
…
AUTHOR      (T.KATOH, S.NAKAMURA, K.FURUTAKA, H.WADA, H.HARADA,    2268700100006
            T.BABA, T.FUJII, H.YAMANA)                            2268700100007
…
REFERENCE   (J,NST,39,(7),705,200207)  Main reference, data and   2268700100011
                                       error structure are given  2268700100012
            (J,NSTS,2,(1),258,200208)  Data given for 90Sr,166m-Ho 2268700100013
            (C,2001TSUKUB,,(393),200110)   Abstracts              2268700100014
            (J,NST,32,395,1995)        Experimental details       2268700100015
```

…

For this case, both

"T. Katoh, S. Nakamura, K. Furutaka,. H.Wada,…, Jour. Nucl. Sci. Technol. 39(2002)705"

, and

```
@article{J_NST_39_(7)_705_200207,
…
    author={Katoh, T. and Nakamura, S. and Furutaka, K. and Wada,
…
```

are *not* correct, because H. Wada is not an author of the main publication but an author of the second reference.

We find the following statement in the 2001 version of LEXFOR:

"If a data set has several references with varying co-authors all co-authors may be entered"
(This is not written in the present version of LEXFOR explicitly, but not forbidden). If this statement is valid still no, our users are always forced to check the original article whenever there are more than two references (My colleague often complains about this when he prepares reference lists for his publications). Therefore I propose that *the title and authors of the main publication should be coded under* TITLE *and* AUTHOR*, where main publication is defined by the first code under* REFERENCE. I stick this in TRANS.E039 and E040.

I believe this rule brings a strong benefit to EXFOR users because this rule guarantees auto generation of the correct combination of the first author – title – reference from entries. Maybe my idea is conflicts with the concept of "work" in EXFOR. Any comments are welcome.

Distribution: