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Memo CP-D/686

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To: Distribution
From: N. Otsuka, V. Semkova
Subject: **Selection and description of references under REFERENCE**

LEXFOR explains the role of the keyword REFERENCE as follows:

“All bibliographic references which contain the preliminary or revised data as well as information of the specific experiment compiled in EXFOR, i.e., not only the reference from which the data were taken, but also other important references, such as journal articles, conference papers, and laboratory reports may be coded under the keyword REFERENCE.”

However, there are entries where the compilers selected some references from the citation list of the primary article, and added them under REFERENCE without proper free text explanation. We propose to add the following rule in to LEXFOR:

“Only the references checked and analyzed by the compiler can be included under this keyword. When two or more references are coded, their contents should be indicated in free text”.

If we consider that an Entry represents the information/data reported in the main reference it would be more appropriate if the free text to an additional reference indicates how the information/data given in that reference is related to the information/data given in the main reference. In this respect the free text “Experimental details” to the additional references (e.g., **Example 2**) could be sometimes misleading and give the impression that the additional reference contains experimental details that have not been provided in the main reference. Moreover, regarding the experimental procedure, authors often make reference themselves to other publications if it is appropriate.

Note that we also concluded in the NRDC 2009 meeting that
“A reference in which only the facility or general method is described should be coded under REL-REF with new code I or M.”

Example 1 (EXFOR 20480.001):

Reference information is given in a short, but informative and correct manner.

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REFERENCE (R,CEA-R-4524,197311)
Summarizes some 10 year activity on measurements of
the total cross-section of many isotopes in the
energy range - hundreds keV to several MeV-.
(P,EANDC(E)-150,197205) Plots (B,AL,S,V)
(P,EANDC(E)-140,197108) Plots (Ni,235U,238U,239Pu)
(C,70HELSINKI,2,31,197006) Plots (C,Ni,235U,238U,239Pu)
(J,JPR/S,31,217,197005) Plot (Ti)
(P,EANDC(E)-127,197003) Plots (Be,Ni,U,235U)
(P,EANDC(E)-115,196903) Plots (S,Si,Ti)
(P,EANDC(E)-89,196802) Plots (Ti,Si)
(J,NP/A,102,92,196709) Plots (V,Cr,Mn,Fe,Co)
(R,CEA-R-3279,196706) Plots (F,Al,Si,P,Cr,Pb,V,Mn,
Fe,Ni,Co)
(C,67BORDEAUX,1,36,196703) V,Cr,Mn,Fe,Co (No data/figs)
(J,JPR,27,755,196611) Plots (F,Al)
(P,EANDC(E)-57,196502) Plots (F,Al,V,Fe,Co,Ga,Pb)
(J,CR,259,4610,196412) Plot (Si)
(J,CR,258,1478,196402) Plot (Cr)
(P,EANDC(E)-49,196310) DATA (S,Ni,C,Si,P,Cr,Mn)
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Example 2 (EXFOR 22820.001):

Reference information is given in incorrect manner.

“A systematic investigation of reaction cross sections and isomer ratios for neutrons up to 20 MeV on Ni-isotopes and ⁵⁹Co by measurements with the activation technique and new model studies of the underlying reaction mechanisms”, V. Semkova, V. Avrigeanu, T. Glodariu, A.J. Koning, A.J.M. Plompen, D.L. Smith, S. Sudár, Nucl. Phys. A730(2004)255

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REFERENCE (J,NP/A,730,255,2004) Main reference, data for Ni and Co
(R,EUR-20820-EN,2003) Detailed reference, data are given for Ni, Co, Pb, Zr
(C,2002SEOUL,,20021007) Experimental details
(J,NSTS,2,(1),192,200208) Experimental details
(J,PR/C,65,(1),014604,200201) Experimental details
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The details of the experimental procedure applied in the data measurements included in the Entry 22820 are given in the main reference and *none of the additional references contains additional information or has been referred to in the main reference in respect to the experimental procedure*. Following the Example 1 where the REFERENCE information is given in a concise manner the following presentation would be more appropriate:

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REFERENCE (J,NP/A,730,255,2004) Main reference, data for Ni and Co
(R,EUR-20820-EN,2003) Table and graphs (Ni, Co, Pb, Zr)
(C,2002SEOUL,,20021007) Graphs (Ni-58, Cu-63 and Co-59)
(J,NSTS,2,(1),192,200208) Graphs (V,Cr,Co,Ni,Cu,Zn,Se,Zr,Mo,Tc,I and Pb)
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Note that J,PR/C,65,(1),014604,200201 has to be *removed*. Not relevant to Entry 228020 (“Reaction mechanisms of fast neutrons on ⁵¹V below 21 MeV”, P. Reimer, V. Avrigeanu, A. J. M. Plompen, and S. M. Qaim)

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