

Revision of Formats Manual and LEXFOR (NRDC 2017 A9, A10)

(N. Otsuka, 2018-03-28, Memo CP-D/953(Rev.))

LEXFOR “Multilevel Resonance Parameters” (for NRDC 2017 A9)

A9: Submit a revision of LEXFOR “Multilevel Resonance Parameters” to clarify the relation of the R-function formalism and Reich-Moore formalism (CP-D/931=WP2017-13).

Addition of the following underlined sentence in LEXFOR “Multilevel Resonance Parameters” is proposed:

Reich-Moore Formalism [2]

The Reich-Moore formalism involves summation over levels and a matrix inversion with respect to channels. If the target nuclide is non-fissile and only the elastic scattering channel remains, the R-matrix becomes a 1×1 matrix. This is just a function known as the **R-function**.

Also “or **R-matrix formalism** (RFN)” in LEXFOR “Single-Level Resonance Parameters” is wrong, and must be deleted.

EXFOR Formats Chapter 7 “Reference” (for NRDC 2017 A10)

A10: Submit a revised EXFOR Formats “Reference” according to Conclusion 10 (Coding of INDC report number and primary report number etc. See also CP-D/912=WP2017-34).

Addition of the following underlined sentence in EXFOR Formats Manual Chapter 7 “Reference” is proposed:

Type of Reference = P or R or S or X: Progress Reports / Reports / Conference Reports / Preprint. The reference field for reports may contain up to 3 subfields: code number, volume/part, page (paper#).

...

Code-number subfield: contains a code from Dictionary 6¹, and the number, which may have any format, but may not contain a comma (for example: 3058-39, 4648-MS, 66-12-9, 630-1X-A/PR). The separator between the code and the number is a hyphen¹. This field must be present. Compilers should keep a uniform style within a series. For example, insignificant symbols such as distribution codes should be omitted if they are not needed to identify the report (e.g., INDC reports with a few exceptions).

Note that “should” in the last sentence is stronger than the wording in NRDC 2017 C21 (Compilers are *recommended* to ...).

LEXFOR “Reference” (for NRDC 2017 A10)

Addition of the following paragraph is proposed:

Reports

If an INDC report number is assigned to the report, it must be always coded. Also the primary report number (*e.g.*, the report code-number containing an abbreviation of the originating laboratory) must be always coded.