**Nuclear Data Section**

**International Atomic Energy Agency**

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**Memo CP-D/953 (Rev.)**

**Date:** 28 March 2018

**To:** Distribution

**From:** N. Otsuka

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

**Reference:** CP-D/912, CP-D/931

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

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)**

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.

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