**Nuclear Data Section**

**International Atomic Energy Agency**

**P.O.Box 100, A-1400 Vienna, Austria**

**Memo CP-D/1118**

**Date:** 22 December 2024

**To:** Distribution

**From:** N. Otsuka

**Subject: Dictionary transmission 9131 and Season’s Greetings**

Dictionary transmission 9131 is available in three formats (Trans, Archive and Backup) from the NDS open area: [http://nds.iaea.org/nrdc/ndsx4/trans/dicts/](http://nds.iaea.org/nrdc/ndsx4/trans/dictionaries/). These dictionaries are also available in zipped form (dicts-2024-12-20.zip) at <http://nds.iaea.org/exfor-master/backup/?C=M;O=D>. The JSON dictionary is also placed on <https://nds.iaea.org/nrdc/file/dson.html>. All memos submitted no later than 20 November (for dictionary 1, 2, 4, 16, 24-25, 30-35, 37, 236) or 20 December (for other dictionaries) are considered in this update.

I would like thank Nicolas Soppera and Viktor Zerkin for valuable comments on a draft of the new dictionary.

The heading THICK-ERR used in 14801.002-005 and 14813.002-011 has not been proposed by a memo yet. I cannot add a new code to Dictionary 24 without a prior approval of the network. NNDC is requested to submit a memo proposing this new heading as soon as possible.

Vikor Zerkin informed me Jπ=0+ for even-even nuclides such as 4He, 16O etc. was missing in Dictionary 227. I noticed that the program producing Dictionary 227 was too restrictive for adoption of the spins and parities from Nubase compilation. The program (DIC227) adopted only the values flagged with \* (directly measured) so far, and I removed this restriction.

Additional changes introduced by me are summarized below:

**Dictionary 5 (Journals)**

FRCH Frontiers in Chemistry

PHRM Pharamaceuticals

**Dictionary 6 (Reports)**

NBSIR- National Bureau of Standards Interagency Reports

**Dictionary 22 (Detectors)**

PLATE (“emulsion” is added to the expansion)

**Dictionary 209 (Compounds)**

39-Y-HYD Yttrium hydride

All changes are summarized below. “Status” gives alteration flags and status codes defined in EXFOR/CINDA Dictionary Manual.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Dict.** | **Status** | **Code** | **Expansion** | **Remark** |
| 003 | ATRA | 2ZZZESS | The European Spallation Source, Lund | CP-E/1117 |
| 005 | ATRA | FRCH | Frontiers in Chemistry | This memo |
| 005 | ATRA | IEE/R | IEEE Trans.Radiat.Plasma Med.Sci. | CP-E/1117 |
| 005 | ATRA | PHRM | Pharamaceuticals | This memo |
| 006 | ATRA | NBSIR- | National Bureau of Standards Interagency Reports | This memo |
| 022 | MTRA | PLATE | Nuclear plates (emulsion) | This memo |
| 025 | ATRA | B/SR/GEVC | barns/sr/(GeV/c) | CP-E/1117 |
| 209 | ATRA | 39-Y-HYD | Yttrium hydride | This memo |
| 236 | ATRA | ,IPA/DE,\*+\*+\* | d/dA(\*+\*+\*)/dE(\*+\*+\*) int.over part.ang.range | CP-E/0172 |
| 236 | ATRA | ISP,DA/DA,\*/\* | Double diff. cross sect. d2/dA(\*)/dA(\*), partial for intermediate prod. | CP-E/0171 |
| 236 | ATRA | ISP,DA/DA/DE,\*/\*/\* | Triple diff.cross sect.d3/dA(\*)/dA(\*)/dE(\*), partial for intermed.prod. | CP-E/0171 |
| 236 | ATRA | ISP,DA2/DE2,\*/\* | Quadruple diff.cross sect.d4/dA(\*)/dE(\*)/dA(\*)/dE(\*), part.interm.prod. | CP-E/0171 |
| 236 | ATRA | LP/ISP,DP,\* | Diff.cs w.r.t. longit.sec.lin.mom.of part.specified, part.interm.prod. | CP-E/0174 |
| 236 | ATRA | PRE/PR,NU/TKE | Prompt neutron multiplicity at a given TKE for a given primary fragment | CP-E/0173 |
| 236 | ATRA | TP/ISP,DP,\* | Diff.cs w.r.t. trans.sec.lin.mom.of part.specified, part.interm.prod. | CP-E/0174 |



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