**Nuclear Data Section**

**International Atomic Energy Agency**

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**Memo CP-D/1008**

**Date:** 24 December 2020

**To:** Distribution

**From:** N. Otsuka

**Subject: Dictionary transmission 9123 and Season’s Greetings**

Dictionary transmission 9123 is available in three formats (Trans, Archive and Backup) from the NDS open area: <http://nds.iaea.org/nrdc/ndsx4/trans/dicts/>. These dictionaries in zipped form (dicts-2020-12-24.zip) are also available: <http://nds.iaea.org/exfor-master/backup/?C=M;O=D>.

All memos submitted no later than 23 November (for dictionary 1, 2, 4, 16, 24-25, 30-35, 37, 236) or 23 December (for other dictionaries) are considered in this update. Additionally, I propose the following corrections:

* +EN-RSL-HW and -EN-RSL-HW: Conclusion 20 of NRDC 2017 meeting (WP2017-31) implies use of +EN-RSL and -EN-RSL without -HW whenever an asymmetric resolution is coded. Therefore I propose to make these headings obsolete. (These headings are used only in a single subentry, K2003.003).
* A new particle code U238 is used in C2499 transmitted in TRANS.C192. NNDC forgot submission of a memo proposing this new code. I believe this is acceptable for other centres.
* ,DA/DA,A+A/FF; ,DA/DA,P+A/FF and ,DA/DA,P+P/FF were deleted since we have also ,DA/DA,\*+\*/\* in Dictionary 236.
* ,DA/DA,\*/\*+\* proposed in Memo CP-C/0487 was *not* added due to presence of another quantity code ,DA/DA,\*+\*/\* in Dict.236. I think we need a rule about the order of particles and/or particle groups connected by slash in REACTION SF7.
* SEC/PR,NU used in 22062.007 is not defined in Dict.236, but it has not been proposed by a memo, and was *not* added to Dict. 236 this time.
* SEQ,DA was made obsolete since the particle considered must be specified for this quantity. This quantity code is used only in a single subentry (30200.007) where P must be added in SF7.

Additional changes introduced in this memo are summarized below:

**Dictionary 3 (Institutes)**

2SPNPCM (Expansion updated)

**Dictionary 5 (Journals)**

JMS (Expansion updated)

PSS/A Physica Status Solidi A

**Dictionary 6 (Reports)**

UTTAC- Tandem Accelerator Complex, University of Tsukuba Annual Report

**Dictionary 7 (Conferences)**

65MINSK (*Delete*. Not in use.)

**Dictionary 24 (Data headings)**

+EN-RSL-HW (*Obsolete*)

-EN-RSL-HW (*Obsolete*)

**Dictionary 33 (Particles)**

U238 Uranium 238

**Dictionary 236 (Quantities)**

,DA/DA,A+A/FF (*Delete*)

,DA/DA,P+A/FF (*Delete*)

,DA/DA,P+P/FF (*Delete*)

PR/TER,DA,N (*Delete*. Not in use)

SEQ,DA (*Obsolete*)

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

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| **Dict.** | **Status** | **Code** | **Expansion** | **Remark** |
| 003 | MTRA | 2SPNPCM | Centro para Invest. Energ., Medio. y Tecnol. (CIEMAT) | This memo |
| 005 | ATRA | AJPA | Americal Journal of Physics and Applications | CP-M/0040 |
| 005 | AEXT | CTNP | Trends in Nuclear Physics | CP-S/0006 |
| 005 | MTRA | JMS | Internat.J.of Mass Spectrometry and Ion Physics | This memo |
| 005 | ATRA | JPS/CP | JPS Conference Proceedings | CP-N/0161 |
| 005 | ATRA | PSS/A | Physica Status Solidi A | This memo |
| 006 | ATRA | UTTAC- | Tandem Accel. Complex Univ. Tsukuba Ann.Reports | This memo |
| 007 | DOBS | 65MINSK | Nuclear Spectroscopy Conf., Minsk 1965 | This memo |
| 019 | ATRA | ISOL | Online isotope separation | CP-D/1004 |
| 024 | SOBS | +EN-RSL-HW | + Unsymmetric energy resolution (Half width) | This memo |
| 024 | SOBS | -EN-RSL-HW | - Unsymmetric energy resolution (Half width) | This memo |
| 024 | ATRA | ANG-RL-MAX | Upper limit of relative angular range | 4C-4/0226 |
| 024 | ATRA | ANG-RL-MIN | Lower limit of relative angular range | 4C-4/0226 |
| 024 | ATRA | E-EXC-C-MN | Lower limit of excitation energy of initial cmpound nucleus | CP-C/0485 |
| 024 | ATRA | E-EXC-C-MX | Upper limit of excitation energy of initial cmpound nucleus | CP-C/0485 |
| 033 | ATRA | U238 | Uranium 238 | This memo |
| 236 | ATRA | (SEC),ZP | Most prob. charge of fiss.fragm.,post-n-emiss.uncertain if secondary | CP-N/0158 |
| 236 | DTRA | ,DA/DA,A+A/FF | Angular corr. 2 alphas(rel.angle) - fiss.fragm. | This memo |
| 236 | DTRA | ,DA/DA,P+A/FF | Angular corr.alphas/protons(rel.angle)-fis.frag. | This memo |
| 236 | DTRA | ,DA/DA,P+P/FF | Angular corr. 2 protons(rel.angle) - fiss.fragm. | This memo |
| 236 | ATRA | ,DA/DA/DE,\*/\*+\*/\* | Triple diff.cross section d3/dA(\*)/dA(\*+\*)/dE(\*) | CP-C/0487 |
| 236 | ATRA | ISP/IND,FY | Independent fission-product yield partial for intermediate products | CP-N/0157 |
| 236 | ATRA | ISP/PRE,KE | Kinetic energy of spec.primary fragm., partial for intermediate prod. | CP-C/0486 |
| 236 | ATRA | LP/PAR,DP | Partial diff. cross section w.r.t. longitudinal linear momentum | CP-E/0161 |
| 236 | ATRA | PAR,SIG,G,RES | Partial gamma-production cross section at resonance | CP-C/0488 |
| 236 | ATRA | PAR/ICL,DA,\* | Partial diff. c.s. d/dA(\*) uncor. for other channels emit. same part. | CP-E/0162 |
| 236 | ATRA | PR,DA/DE | ouble differential spectra of prompt fission particles | CP-N/0160 |
| 236 | DTRA | PR/TER,DA,N | Ang.dist.of prompt fission neuts,ternary fiss. | This memo |
| 236 | ATRA | PRE/PR,KE,\* | Kinetic energy of prompt particle specified for a given primary fragm. | 4C-4/0225 |
| 236 | SOBS | SEQ,DA | Diff.cross section for spec. reaction seq. | This memo |
| 236 | ATRA | TER,KE/TKE | Kinetic energy for ternary fission v.s. TKE | 4C-4/0225 |

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