**Nuclear Data Section**

**International Atomic Energy Agency**

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**Memo CP-D/935**

**Date:** 22 June 2017

**To:** Distribution

**From:** N. Otsuka

**Subject:** **Dictionary transmission 9116**

* Dictionary transmission 9116 is available in three formats (Trans, Archive and Backup) from the following place:

<http://www-nds.iaea.org/nrdc/ndsx4/trans/dicts/>.

These dictionaries in zipped form are also available:

<http://www-nds.iaea.org/exfor-master/backup/?C=M;O=D>.

* All memos submitted no later than 19 May (for dictionary 1, 2, 4, 16, 24-25, 30-35, 37, 236) or 19 June (for other dictionaries) are considered in this update.
* Nicolas Soppera reviewed the new dictionaries, and reports that JANIS detects 14 uses of quantities (SF5-SF8), data headings and data units undefined in dictionary 24, 25 and 236 on the latest EXFOR Master (Ver.2017-06-14) with this new dictionary. (It was detecting 110 such error messages with the previous dictionary.).
* Additional changes introduced in this memo

**Dictionary 25 (Data units)**

B/SR/MEVA (“(MeV/A)” replaced “MeV/mass number” in the expansion)

**Dictionary 26 (Unit families)**

FYET per-cent per fission per energy per sqrt energy

**Dictionary 236 (Quantities)**

,NU/DE,,RRE (Unit family code FYET replaced DERT.)

PR,DE,N,RTE (Unit family code FYET replaced DERT.)

PR,NU/DE,,RRE (Unit family code FYET replaced DERT.)

PR,NU/DE,,RTE (Unit family code FYET replaced DERT.)

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\*** |
| 006 | ATRA | ANL/NPBTSTR | Argonne Nat.Lab.Neutr.Part.Beam Test Prog.Repts. | CP-C/452 |
| 006 | ATRA | CERN/DI/HP- | CERN Health Physics Group Reports | CP-N/142 |
| 007 | ATRA | 2012CAIRNS | 12th Symp. on Nuclei in the Cosmos, Cairns, 2012 | CP-S/002 |
| 018 | MTRA | VDG | Van de Graaff | CP-D/922 |
| 018 | MTRA | VDGT | Tandem van de Graaff | CP-D/922 |
| 023 | SOBS | RFN | R-function formalism | CP-D/931 |
| 024 | MTRA | +EN-RSL-HW |  + Unsymmetric energy resolution (Half width) | CP-D/932 |
| 024 | MTRA | -EN-RSL-HW |  - Unsymmetric energy resolution (Half width) | CP-D/932 |
| 024 | MTRA | EN-RSL-FW | Incident projectile energy resolution (Full width) | CP-D/932 |
| 024 | MTRA | EN-RSL-HW | Incident projectile energy resolution (Half width) | CP-D/932 |
| 025 | MTRA | B/SR/MEVA | barns/steradian/(MeV/A)  | This memo |
| 026 | AINT | FYET | per-cent per fission per energy per sqrt energy | This memo |
| 031 | SOBS | MAS | Total mass (for yields of fission fragments) | CP-D/929 |
| 032 | SOBS | TMP | Temperature-dependent quantity | CP-D/928 |
| 034 | ATRA | TMP | at temperature other than the room temperature | CP-D/928 |
| 213 | ATRA | CSS | Cs at other than the room temp. (nonstandard) | CP-D/928 |
| 213 | ATRA | D2T | Double diff. dA/dE' at other than room temp. | CP-C/454 |
| 213 | ATRA | DAT | Differential d/dAng at other than room temp. | CP-C/454 |
| 213 | DTRA | FAT | Fiss.fragm.ang.distr.,Temp.-dep.Leg. coeff. | CP-D/928 |
| 213 | DTRA | FLT | Temperature-dependent Legendre coefficient | CP-D/928 |
| 213 | ATRA | TOT | Time-of-flight spect.other than the room temp. | CP-D/928 |
| 236 | ATRA | ,DA,,TMP | Diff.cross section d/dA at other than room temperature | CP-C/453 |
| 236 | ATRA | ,DA/DE,,TMP | Double diff.cross section d2/dA/dE at other than room temperature | CP-C/454 |
| 236 | DTRA | ,DA/TMP,FF,LEG/RS | Lg.cf.4pi/Sig d/dA=Sum(a(L)P(L)),fis.fr.,tmp.dp | CP-D/928 |
| 236 | MTRA | ,NU/DE,,RRE | Diff. fiss. neutron mult.rel.to square root(E) | This memo |
| 236 | ATRA | ,SIF,,TMP | Self-indication function at other than the room temperature | CP-D/928 |
| 236 | SOBS | ,SIF/TMP | Temperature-dependent self-indication function | CP-D/928 |
| 236 | ATRA | ,SIG,,SFC/TMP | S-factor at other than the room temperatrue | CP-D/928 |
| 236 | ATRA | ,SIG,,TMP | Cross section at other than the room temperature | CP-D/928 |
| 236 | ATRA | ,SIG,,TTA | Reaction yield divided by areal density | CP-D/934 |
| 236 | SOBS | ,SIG/TMP | Temperature-dependent cross section | CP-D/928 |
| 236 | SOBS | ,SIG/TMP,,SFC | S-factor for cross section,temp.dependent | CP-D/928 |
| 236 | ATRA | ,TRN,,TMP | Transmission at other than the room temperature | CP-D/928 |
| 236 | SOBS | ,TRN/TMP | Transmission, temperature dependent | CP-D/928 |
| 236 | DTRA | BA,SIG/TMP | Bound-atom cross section, temperature-dependent | CP-D/928 |
| 236 | DTRA | FA,SIG/TMP | Free-atom cross section, temperature-dependent | CP-D/928 |
| 236 | SOBS | MAS,FY | Mass yield of fiss.fragm.as sum of ind.yields | CP-D/929 |
| 236 | SOBS | PAR/MAS,FY,LF | Fiss.prod.mass spectrum f.giv.light fr.kin.en. | CP-D/929 |
| 236 | MOBS | PR,DE,N,RTE | Energy spect.of prompt fiss.neut\*square root(E) | This memo |
| 236 | MTRA | PR,NU/DE,,RRE | Prompt neut.spect. relative to square root(E) | This memo |
| 236 | MOBS | PR,NU/DE,,RTE | Prompt neut.spect. relative to square root(E) | This memo |
| 236 | DTRA | PRE,DA/TMP,FF,LEG/RS | Lg.cf.4pi/Sig d/dA=Sum(a(L)P(L)),pr.ff,tmp.dp | CP-D/928 |
| 236 | MTRA | SEC,FY | Post-neutron-emission fission-product yield (mass yield) | CP-D/929 |

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