

NEA Data Bank

Progress Report 2011 – 2012

- ✓ Staff situation
- ✓ Experimental data
- ✓ JEFF Files
- ✓ JANIS Software

NB: The full report is available as document P2012-09

Staff situation

The situation is back to normal after the large turnover that started in 2009

- H. Henrikson left in 2009 (replaced by E. Dupont in September 2009)
- P. Nagel retired in 2009 (will be replaced by A. Ventura on May 1st, 2012)
- E. Sartori retired in 2009 (replaced by J. Gulliford in January 2010)
- A. Hasegawa left in 2009 (replaced by K. Matsumoto in May 2011)
- Y. Rugama left in 2010 (replaced by F. Michel-Sendis in September 2010)
- C. Nordbord retired in 2011 (replaced by J. Gulliford)

Experimental data

EXFOR compilation

- Compilation is done with the help of external consultants
- Neutron data compilation in **2011** (2012/1st quarter)
26 (23) new / 105 (30) updated entries
- Charged-particle data compilation in **2011** (2012/1st quarter)
93 (36) new / 35 (7) updated entries
- NB: Some files are still in a PRELIM status (i.e. not yet in the Master), see the NEA DB Progress Report (P2012-09) for more detailed statistics.

Experimental data

EXFOR verification

- Verification of EXFOR data with in-house codes
 - WP2012-26 by M.Bossant on the Verification of citations in EXFOR
 - WP2012-35 by M.Mikhaylyukova and N.Soppera on the use of INC-SOURCE in SF entries
- Verification with JANIS Trans Checker
 - Peer-review of all NRDC prelim files using the JANIS Trans Checker
 - WP2012-25 by N.Otsuka and N.Soppera on the Analysis of JANIS import log for the EXFOR Master
- Post – WPEC Subgroup 30 activities
 - Statistical methods for the verification of EXFOR (see WP2011-17, NRDC2011 meeting)
 - Comparison of experimental and evaluated data (ongoing)

JEFF Files

JEFF-3.2T1

- Assembled in March 2011 as a first step toward JEFF-3.2

JEFF-3.2T1 JANIS Book

- Comparison of about 6000 total reaction channel cross-sections from JEFF-3.2T1 with JEFF-3.1.1, ENDF/B-VII.0, JENDL-4.0, EAF-2010, TENDL-2009 and EXFOR data. See JEF/DOC-1370 (available on request).
- Useful tool to help assess the overall quality of JEFF data and serve as guidance for JEFF-3.2 selection, in complement to integral validation.

JEFF-3.1.2

- Released in February 2012

2012 \Rightarrow JEFF-3.2T2 + new JANIS Book with charged-particle-induced reactions

JANIS Software

JANIS 3.3

- Released in October 2011
- A DVD is in preparation with all recent major evaluated libraries (i.e. JEFF-3.1.2, ENDF/B-VII.1, TENDL-2011) and an updated version of JANIS

JANIS Book

- New versions to come and extension to charged-particle-induced reactions

JANIS Trans Checker

- An updated version was released for insertion into the EXFOR-Editor developed at VNIIEF (see WP2012-39).

⇒ More information during the presentation of JANIS on Wednesday

Thank you for your attention

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