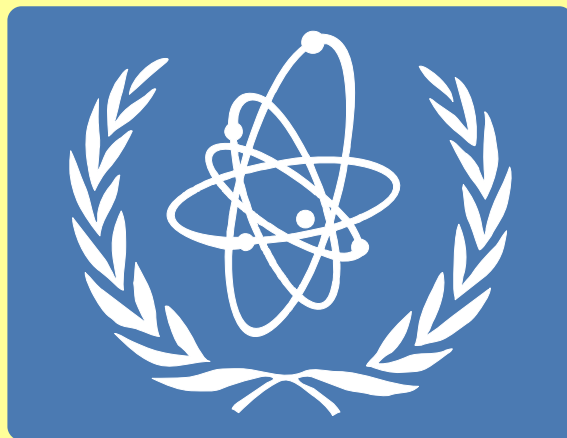


NDS Status report



IAEA Technical Meeting, 25-26 May 2009

Vienna, Austria

Editors: S. Dunaeva, N. Otsuka, V. Zerk

IAEA Nuclear Data Section, Vienna, Austria

The Mission of NDS

NDS staff and changes

- **17 professionals and support staff**
- **Alan Nichols retired**
- **Robin Forrest - new Section Head will come in July 2009**



Data Compilations

| TRANS | NDS | ATOMKI | UkrNDC | India | KAERI |
|------------------|------------|---------------|---------------|--------------|--------------|
| CPND | 78 | 20 | 10 | 2 | 2 |
| Neutron | 32 | - | 6 | - | |
| Photonucl | - | - | 12 | - | |
| SUM | 110 | 20 | 28 | 2 | 2 |



monitor on completeness of compilation

- Ion Beam Analysis,
- Reference Input Parameter Library (RIPL),
- PR/C neutron studies.



TRANS files, EXFOR/CINDA dictionaries

- **57 final TRANS files were checked**
- **two regular transmissions of the EXFOR/CINDA dictionaries (TRANS.9098-9099) in EXFOR, DANIEL (backup) and archive format were produced and distributed**



COMPILATION MISTAKES

- Mistakes in contents:

http://www-nds.iaea.org/nrdc/exfor_err.html ;

- Mistakes in formats:

http://www-nds.iaea.org/nrdc/exfor_err2.html ;

- Feedback from WPEC SG-30:

http://www-nds.iaea.org/nrdc/exfor_err3.htm .

- The correction process is being monitored by NDS staff.

- Almost all corrections have been finished for the 3rd list (except 6 subentries from area 1)



CINDA Master file

- The up-to-date CINDA Master File is available via the NDS compilers' Web site.
- An automatic update using the EXFOR database has been carried out twice (November 2008, April 2009).
- A Sybase-dump of the complete CINDA database was sent to NNDC.
- A few new CINDA lines have been prepared manually for new non-EXFOR experimental studies.
- Corrections to CINDA lines have also been carried out according to various feedback from users (http://www-nds.iaea.org/nrdc/cinda_err.html).



Coverage control

- over 80 journal titles were scanned
- over 350 journal issues from 1990 to 2009 were added to the database for CINDA coverage control
- More than 900 files were saved in pdf-format during this year
- all requested copies of the articles for compilation were sent to Data Centres
- EXFOR database statistics are also available from the NDS Web site:
- contributions to EXFOR according to individual centres,
- history (Preliminary, TRANS files, database updates),
- general statistics (contents by Quantities, Targets, Reactions, etc.).



Evaluated data libraries, files and programs

- **EXFOR - CINDA Database and Retrieval System, data updated April 2009 (CD-ROM);**
- **ENDVER/GUI and EXFOR-CINDA package; Integrated Tools for ENDF-Evaluators, reproduced at April 2009 on CD-ROM**



Services: ENDF

New evaluated libraries included in the ENDF database:

- **TENDL-2008 TALYS-based Evaluated Nuclear Data Library [page]**
- **FENDL-2.1 Fusion Evaluated Nuclear Data Library, 2004**
- **JEFF3.1.1 Radiative Decay Data Sub-Library, 2007**

**Plotting production cross section
coded via MF6/MF5/sub-sections on
Web**



Services: EXFOR

- **Advanced plot: ratios, ratios converted to cross sections**
- **Dynamic request page combining Standard, Extended and Advanced requests in one page**
- **Prompt-Help system**
- **Extensions on Selection-page and EXFOR+**
- **Search by full Reaction-code and Trans-ID**
- **New Web output format X4± presenting EXFOR file as an interpreted interactive tree**
- **New tools for EXFOR compilers: uploading EXFOR file and comparison with existing data in EXFOR database**
- **Video guide for EXFOR-ENDF**



Software

- CINDA : A new version of the program to import information from the ENDF database has been discussed, improved and checked with Henriksson (NEA- Data Bank).
- EXFOR: New EXFOR Java tools (basic classes) were created. → new pilot programs : production of new output formats (X4±, XML, X4Tab), etc
- Full EXFOR in C4 format were regularly produced
- Flexible ENDF database explorer allows the user to select the sequence of data observation “on the fly” and provides additional convenient service.



Recent Coordinated Research Projects

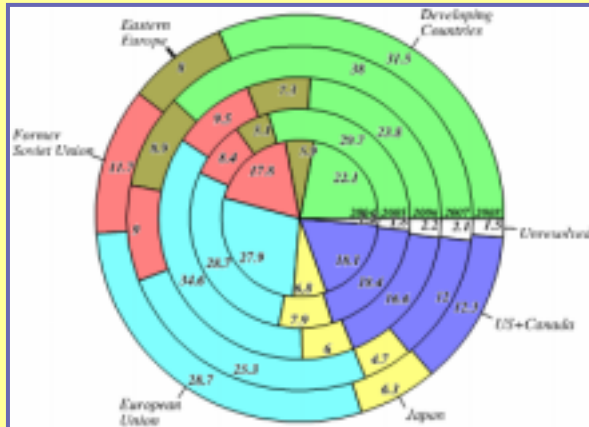
- *Reference Database for Ion Beam Analysis: on-going.*
- *Updated Decay Data Library for Actinides: on-going.*
- *Reference Database for Neutron Activation Analysis: on-going.*
- *Heavy Charged-Particle Interaction Data for Radiotherapy: on-going.*
- *Minor Actinide Neutron Reaction Data (MANREAD): on-going.*
- *Nuclear Data Library for Advanced Systems – Fusion Devices (FENDL-3): on-going.*
- *Reference Database for Ion Beam Analysis: on-going.*
- *Updated Decay Data Library for Actinides: on-going.*
- *Reference Database for Neutron Activation Analysis: on-going.*
- *Heavy Charged-Particle Interaction Data for Radiotherapy: on-going.*
- *Minor Actinide Neutron Reaction Data (MANREAD): on-going.*



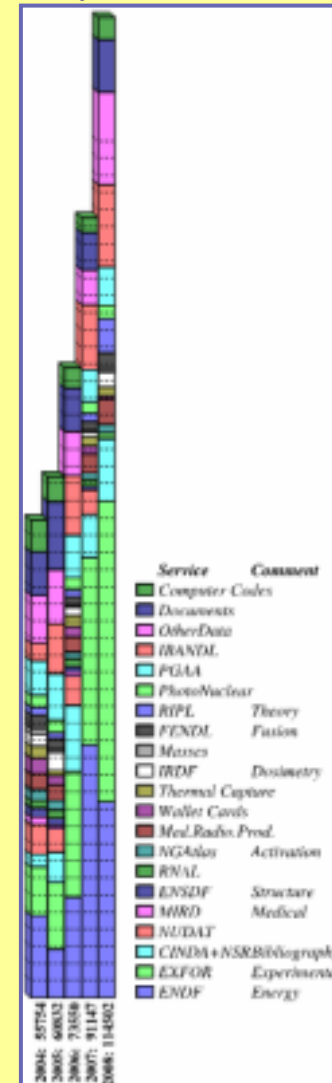
NDS+IPEN+BARC

Nuclear Data Services: Web Statistics

Geographical Distribution (%)



Total per Year
(Number of accesses + retrievals)



Average per Month
(Number of accesses + retrievals)

