NNDC Progress Report

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a passion for discovery



Office of

Introduction

- 2014 NNDC Operation
 - Collective effort (B. Pritychenko, S. Hlavac and O. Schwerer)
- Submission of EXFOR entries to prelims, quality control, final data transmissions by the IAEA.
- 12 database updates.
- Web Interface upgrade by V. Zerkin.



Compilation Statistics

- IAEA Website: <u>https://www-nds.iaea.org/exfor-master/x4compil/exfor_input.htm</u>:
- 75 in 2010 Calendar Year.
- 78 in 2011 Calendar Year.
- 128 in 2012 Calendar Year.
- 121 in 2013 Calendar Year.
- 79+3=82 in 2014 Calendar Year as of April 15, 2015.
- This system gives credit for new compilations only. The system has to be improved, revision of old entries or addition of missing data requires plenty of work.



2014 Accession Numbers Assigned

- Neutron: 29
- Charged Particles: 66
- Photons: 11
- Current Web system: 82/106=0.773
- Continued decline in experimental research, financial and organizational problems affected the results.



FY2014 EXFOR Compilations

NNDC Highlights

- Area #1 new publications compilation
- Area #1 UNOBT compilations for CIELO project
- J.L. Kammerdiener's thesis compilation was presented during the NNDC program review as an example of importance of EXFOR work
- Total: Brookhaven + Bratislava + Vienna.
- Compilation at NNDC:
 - 36 new EXFOR entries
 - 59 updated EXFOR entries



EXFOR Web Interface

- Viktor's Interface is our main Interface.
- Now NNDC/IAEA count Web statistics using the Viktor's approach.
- Interface is complicated even for an EXFOR compiler. I could not find transmission data because I used ``TRN" in a quantity field instead of SF6.
- Interface is slow even on fast servers; try to search for UNOBT, and it may take 10-15 sec.
- It has the same ``look & feel" as in 2003. It has to be improved.



Conclusions

- EXFOR project is in a good shape.
- We address compilation of current articles, correct previous entries and add missing articles.
- Serious fixes or revision (recompilation) of existing entries (missing data) should be included into IAEA metrics. It is a lot of work, it is very needed work, however, such work is not recognized.
- It is a team effort that is conducted in close cooperation with the IAEA.

