Ukrainian Nuclear Data Centre

Progress Report
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Introduction

UkrNDC is subdivision within the Neutron Physics Department at the Institute for Nuclear Research of the National Academy of Sciences of Ukraine

UKRNDC has:

- 5 permanent researchers
- 3 of them involved in the experimental neutron data measurements at the Kyiv research reactor

Compilation

continue collection and compilation of experimental data

Sent to NDS:

- ➤ for neutron: **5 entries, 1 renew entry**
- ➤ for charged particle: **7 entries, 2 renew**
- ➤ for photonuclear data: **2 entries**

Compilation

Review of compilation scope in

in home journals:

➢ " Nuclear Physics and Atomic Energy "

➢ " Ukrainian Journal of Physics "

➢ "Problems of Atomic Science and Technology", Series "Nuclear Physics Investigations"

in the journal
"Bulletin of the Russian Academy of Sciences: Physics"

Collaboration

Continue collaboration with the PD of the Taras Shevchenko National University of Kyiv:

The teaching course *"Nuclear Data for Science and Technology and Modern Computer Codes for Nuclear Data Processing" (72 hours)* **are lectured in 2009-2010 for graduate course students**

Start collaboration with Pavel Sukhoi State Technical University of Gomel in frame of the task on *development and organization of scientific methodology and information databases for nuclear technology calculations* **in the Republic of Belarus**

Customer Services

The data from ENDF, ENSDF and EXFOR libraries was prepared and adapted on demand of the users from:

- ➢ **Department of Nuclear Physics of the INR of NASU**
- ➢ **Department of Nuclear Reactions of the INR of NASU**
- ➢ **Department of Nuclear Reactor Theory of the INR of NASU**

UkrNDC site were updated (English and Ukrainian versions).
The main changes have concerned the following:
- ➢ **replace of ENDF libraries and PREPRO codes by the new versions of them,**
- ➢ **creation of new own codes for input file preparation for the LINEAR, RECENT, SIGMA1, GROUPIE, MIXER codes in semi-automatic mode, etc.**

UKRNDC site is operating - for students and Ukrainian customers, who wish to prepare libraries self-dependently.
Address: http://ukrndc.kinr.kiev.ua

Experimental Measurements

The **neutron cross sections** for natural <u>hafnium</u>, <u>carbon</u>, and <u>chromium</u>

were measured using neutron filtered beams at the Kyiv research reactor

Thank You

for your attention!

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