

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: 1 entry, 5 renew entries**
- **for charged particle: 4 entries, 15 renew**
- **for photonuclear data: 4 entries, 2 renew**

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” (36 hours) are lectured in 2010-2011 for the fifth-course students***
- ***The teaching courses “Neutron Physics” (72 hours) and “Neutron Physics at the Kyiv Research Reactor” (experimental work, 36 hours) are lectured in 2010-2011 for fourth-year students***

Collaboration (cont.)

- ***The teaching course “Experimental Methods at Atomic Power Engineering” (16 hours) are lectured in 2011 for the third-course students of NPD KNU***

We continue our 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 the Theory of Nuclear Reactions of the INR
Department of Nuclear Reactions of the INR of NASU
- Department of Nuclear Physics of Kyiv National University

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

Experimental Measurements

at the Kyiv research reactor

- **The neutron cross sections for natural hafnium were measured using neutron filtered beam with the average energy 59 keV**
- **The measurements of the total neutron cross section for natural carbon in the 150 keV energy region are in development**

Thank You

for your attention!

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