

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:

- 4 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

New entries sent to NDS:

- for neutron: **3 entry**
- for charged particle: **4 entries**
- for photonuclear data: **4 entries**

Preparation of the numerical view of the neutron spectrum after the interference filters used at the KRR is in progress.

Compilation

Review of compilation scope in

in home journals and scientific issues:

- Nuclear Physics and Atomic Energy
- Ukrainian Journal of Physics
- Problems of Atomic Science and Technology,
Series: Nuclear Physics Investigations
- **Uzhhorod University Scientific Herald, Series: Physics;**
- **Bulletin of Taras Shevchenko National University of Kyiv,
Series: Physics & Mathematics**
- **Proceedings of the International Conference NPAE-
Kyiv2012**

in the journal

Bulletin of the Russian Academy of Sciences, Series: 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 2012 for the fifth-course students***
- ***The teaching courses “Experimental Methods at Atomic Power Engineering” (36 hours) are lectured in 2013 for third-year students***

Collaboration (cont.)

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
- Uzhgorod Institute of Electron Physics of NASU

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

The UkrNDC site is also used by Vietnam colleagues. On their request the code Filter-7 included in the code package FILTER was transformed for the filter calculations at the Dalat Research Reactor. This new version (Filter-8) will be included in the next modification of the UkrNDC site.

Experimental Measurements at the Kyiv Research Reactor (KRR)

- **The total neutron cross sections for Cr-52 were measured using a method of the average energy shift at the neutron filtered beam of the KRR**
- **The measurements of the total neutron cross section for natural carbon in the energy region $90 \div 160$ keV were fulfilled using a method of the modified filtered beams at the KRR**

Thank You

for your attention!

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