

# 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: **5 entry**
- for charged particle: **9 entries**
- for photonuclear data: **12 entries**

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

**Seven subentries with NS are prepared.**

# Compilation (continue)

## 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” (38 hours) are lectured in 2013 for the fifth-course students*
- *The teaching courses “Experimental Methods at Atomic Power Engineering” (38 hours) are lectured in 2014 for third-year students*

# Collaboration (continue)

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

## Scientific, Methodological and Information Basis for Nuclear and Technology Calculations

[Russian version](#)

The activity on the foundation of Scientific, Methodological and Information Basis for Nuclear and Technological Calculations had been started in 2013 in the framework of joint Project of Ukrainian Nuclear Data Center, [UkrNDC](#) (Institute for Nuclear Research NAS Ukraine, [INR](#), Kyiv, Ukraine) and Physics Research Laboratory, [PRL](#) (Pavel Sukhoi State Technical University of Gomel, [GSTU](#), Gomel, Belarus). The name of the Project is "Accumulation, Processing, Systematization and Analyses of Information in the Nuclear Power sphere as the basis to found the Information Nuclear Data Center".

### Goals and Objectives

- Creation of the computerized nuclear data base
- Creation of the software database for the nuclear constant preparation and carrying out the engineering calculations
- Organization of the remote access to the modern international sources of nuclear and physical information
- Creation of the teaching and educational methodological base for manpower development to carry out the production of nuclear constants and engineer calculations to ensure the regular and safe operation of nuclear installations

<a href="#">Data Bases</a>	Libraries of experimental and evaluated nuclear data, some special-purpose libraries
<a href="#">Codes</a>	Codes to carry out the production of nuclear constants and engineering calculations
<a href="#">Site Addresses</a>	Modern international sources of nuclear and physical information
<a href="#">Manuals</a>	Educational methodological and scientific literature
<a href="#">Contacts</a>	Information on the personals and areas of their responsibility

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Activity on creation of the web-site in GSTU is started (38 html files were developed and transferred to the PRL).

# 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
- 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>

*Thank You*

*for your attention!*

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