

Ukrainian Nuclear Data Centre

Progress Report

**Technical Meeting on the International Network of NRDC
16 - 19 April, 2012, Issy-les-Moulineux, France**

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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, 1 renew entry**
- **for charged particle: 10 entries**
- **for photonuclear data: 2 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 2011-2012 for the fifth-course students***
- ***The teaching course “Experimental Methods at Atomic Power Engineering” (36 hours) are lectured in 2011-2012 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 the Nuclear Reactions of the Institute for Nuclear Research (INR) of NASU.
- Department of the Nuclear Reactions, INR.
- Department of the Plasma Physics, INR.
- Institute of Electron Physics of NASU, Uzhgorod.

UKRNDC site is updated. The Filter code including the special libraries was added.

UKRNDC site is useful 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 Cr-52 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 carried out**

Visits and Conferences

- International Conference of Young Scientists and Post-Graduates (IEP-2011), 24 - 27 May, 2011, Uzhgorod, UKRAINE.
- Regional Workshop on Concerted Actions in Research and Applications with Neutron Beams in Europe, 1-3 June 2011, Budapest, Hungary.
- The XI-th International School-Seminar "The Actual Problems of Microworld Physics", August 1 - 12, 2011, Gomel, Belarus.
- Technical Meeting on Catalogue of Products and Services of RRs: Applications of Neutron Beams, 5 - 7 September 2011, Vienna Austria.
- The 60th Meeting on Nuclear Spectroscopy and Nuclear Structure "Nucleus-2011", October 10-14, 2011, Sarov, Russia.
- Technical Meeting on Potential International Centres of Excellence Based on High Flux Research Reactor Facilities (ICERR), 10-12 April, 2012, Cadarache, France.



The 4-th International Conference
**Current Problems in Nuclear Physics
and Atomic Energy**

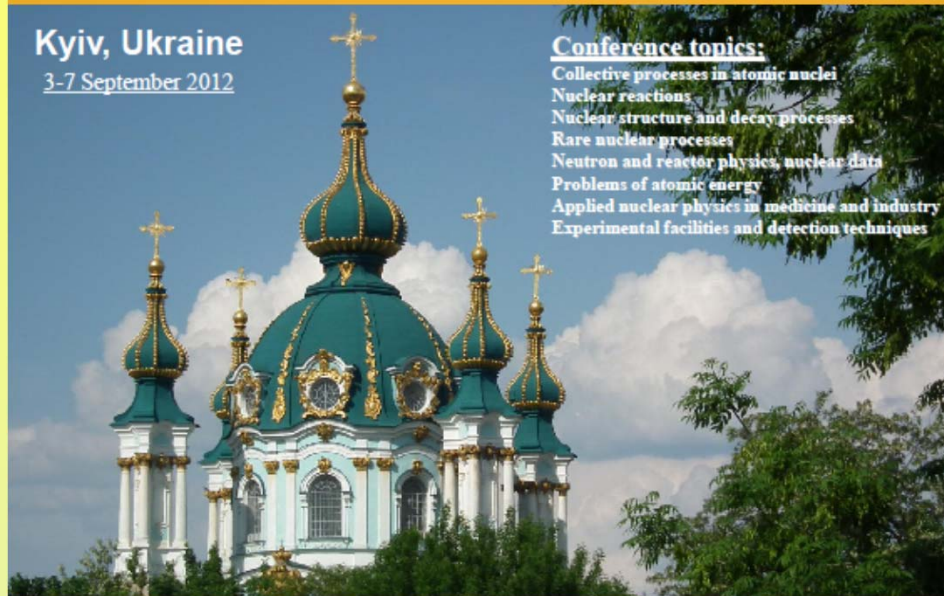
<http://www.kinr.kiev.ua/NPAE-Kviv2012>

Kyiv, Ukraine

3-7 September 2012

Conference topics:

Collective processes in atomic nuclei
Nuclear reactions
Nuclear structure and decay processes
Rare nuclear processes
Neutron and reactor physics, nuclear data
Problems of atomic energy
Applied nuclear physics in medicine and industry
Experimental facilities and detection techniques



Organized by:

National Academy of Sciences of Ukraine (NASU)
Institute for Nuclear Research of NASU
Taras Shevchenko National University of Kyiv

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Thank You

for your attention!

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