# Ukrainian Nuclear Data Centre

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## Introduction

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

#### **UKRNDC has:**

3 permanent researchers
They are also involved in the experimental neutron data measurements at the Kyiv research reactor



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#### **New/renew entries sent to NDS:**

for neutron data: **3 entries** for charged particle: **40 entries** for photonuclear data: **14 entries** 

Compilation (continue) Review of compilation scope 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
- East European Journal of 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) was lectured in 2018 for the fifth-course students Collaboration (continue) Start activity within the framework of educational and scientific program of the INR of the NASU on the preparation of a doctor of philosophy in specialty 104 (Physics and Astronomy) :

• The teaching courses "*Experimental Methods at Atomic Power Engineering*"(60 hours) was prepared and it will be lectured during April-May 2019 for post-graduated students in the 2<sup>nd</sup> year of study.

## **Customer Services**

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

- Department of Theoretical Physics of the INR of NASU
- > Uzhgorod Institute of Electron Physics of NASU
- Scientific and Technical Complex "Nuclear Fuel Cycle" of KPTI of NASU

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

### **Experimental & Computational Activity**

Determination of the total neutron cross section for <sup>52</sup>Cr on the filtered neutron beam with the energy 145 keV was done.

- Computer code FOR\_Spectrum (for reduction and transformation of the output files after operation of the FILTER-8 code) was created.
- Neutron spectra after the composite interference filter that have been used in the experiments at the Kyiv research reactor were recalculated and prepared for input into EXFOR using a new keyword – SUPPL-INF (Supplemental information).



for Your attention!

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