

Center of Nuclear Physical Data

Status report to the Meeting of Nuclear Reaction Data
Centers,
September 25-28, 2006

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Russia, 607190, Sarov, Nizhnij Novgorod region, pr. Mira, 37



Compilation Activity

- **TRANS.F023** - 22 new entries
- **TRANS.F024** - 18 new entries
- **TRANS.F025** - 27 new entries



Russian Journal "Izvestija Rossiiskoi Akademii Nauk"



EXFOR - Editor

Main Functions:

- creation of a new file in the EXFOR format with the help of pattern and wizard;
- editing of EXFOR file using a specialized editor;
- sorting of entered numerical data;
- presenting of numerical data in a graph form;
- checking the edited file as to its correspondence to the EXFOR format.



EXFOR - Editor



EXFOR - Editor

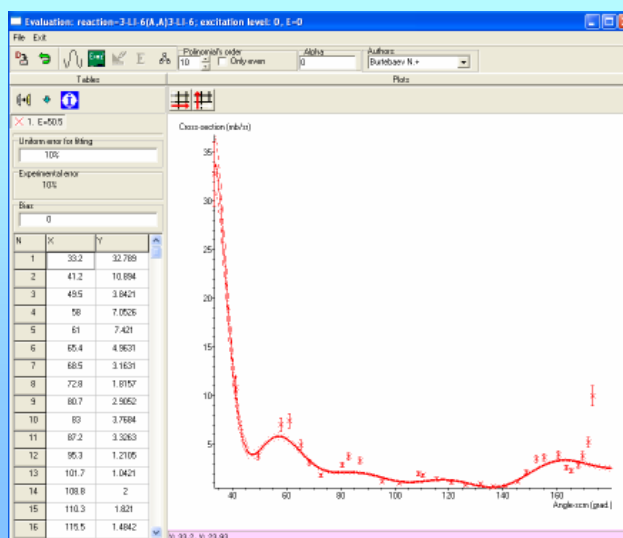


The software operation allows making the following conclusions:

- program structure is convenient for users of different qualifications;
- basic set of processing functions meets users requirements in compilation of factographic data; it can be easily extended;



DataBase Development



Web-page of the CNPD

The screenshot displays the website for the Center of Nuclear Physical Data (CNPD) at the Institute of Nuclear and Radiation Physics, All-Russia Scientific Research Institute of Experimental Physics. The page features a navigation bar with tabs for Information, Our Developments, CNPD Bases, and Contacts. The main content is organized into three columns: Information, Developments, and Data Bases. The Information column includes a 'News' section about an international conference in Sarov, Russia, and an 'About the Center' section detailing its history since 1973. The Developments column lists projects like SaBa, CRDF Project, INPGRAPH, and ExiData, each with a 'Details' link. The Data Bases column lists various nuclear data libraries such as EXFOR, ENDF, ENSDF, NRR, and CINDA, also with 'Details' links. A 'DOWNLOAD' section is also present. A 'Contacts' section is located at the bottom right of the main content area.

Center of Nuclear Physical Data
Institute of Nuclear and Radiation Physics
All-Russia Scientific Research Institute of Experimental Physics

Information Our Developments CNPD Bases Contacts

Information

News
82 - th International Conference "Nucleus-2005" on the problems of nuclear spectroscopy and atomic nuclear structure
Russia, Sarov, September, 4-8, 2006
[Details](#)

About the Center
Since 1973 in the Institute of Nuclear and Radiation Physics there are performed the works on compilation of experimental data produced in the reactions of light nuclei with charged particles. In 1997 according to the order of the Minister of Atomic Energy in RFNC-VNIIEP the Center of Nuclear Physical Data was established.
[Details](#)

Developments

SaBa
The library of evaluated and experimental data on charged particles interaction with light nuclei.
[Details](#)

CRDF Project
Compilation and evaluation of alpha-induced nuclear reaction cross sections for astrophysics.
[Details](#)

INPGRAPH
Program code for primary graphic data digitizing.
[Details](#)

ExiData
Software for input, processing and recording spectroscopic data in the EXFOR format.
[Details](#)

DOWNLOAD
Software available
[Details](#)

Data Bases

EXFOR
The library of experimental data on neutron, charged particles and gamma-quanta interactions with nuclei.

ENDF
The library of evaluated data on neutron, charged particles and gamma-quanta interactions with nuclei.

ENSDF
The library of evaluated data on nuclear structure.

NRR
The library of nuclear data references.

CINDA
The library of neutron data references.
[Details](#)

Contacts
[Details](#)

