

Center of Nuclear Physics Data (CNFD), RFNC-VNIIEF

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Compilation activity

Within the period under report three transmission files TRANS (F023, F024, F025) were prepared and included into the EXFOR data library.

Scanning of the Russian Journal "Izvestiya Rossiiskoi Akademii Nauk" for the period from 2000 to 2005 was performed. List of articles to be entered to the EXFOR library was sent to the NDS.

EXFOR - Editor software

Work on software development (Exfor-Editor) for processing and compilation of experimental data to the EXFOR library was continued. S. Taova and G. Pikulina, experts from CNPD visited Nuclear Data Section in May 2006.

During the visit a trial version of the program has been installed on the NDS PC's, functionality of the Exfor-Editor was reviewed, plans of future EXFOR- Editor development were agreed.

The following functions of Exfor-Editor are available now:

- creation of a new file in the EXFOR format with the aid of a template and wizard;
- editing of EXFOR file using a specialized editor;
- sorting of entered numerical data;
- presenting of numerical data in graphical form;
- checking the edited file for its correspondence to the EXFOR format.

Data base development

The development of SaBa library is continuing. In the previous SaBa version the experimental differential data were presented in the form of Legendre polynomial expansion only. In the present version the experimental data are presented in the form of cross sections depending on angle and energy. The modes of data reviewing and evaluation were modified taking into account a new form of data presentation. A procedure for inputting differential data from text and Exfor files has been realized.

It is also planned to include model calculations into SaBa library.

Center Web page

Web-page design of the Center of Nuclear Physical Data has been completed. It is planned to place it at the VNIIEF site in autumn this year.