

Center of Nuclear Physical Data (CNPD), RFNC-VNIIEF

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Compilation activity

Within the period under report three transmission files TRANS (F026, F027, F028) were prepared and included into the EXFOR data library (72 new and 14 corrected entries).

EXFOR - Editor software

There were continued the works on software development (EXFOR-Editor) for processing and introduction of experimental data to the EXFOR library.

A major part of work has been already done. The package will include four separate applications: EXFOR – Editor, EXFOR – Master, application for working with data tables - Data – Editor and a program for data digitizing - InpGraph.

This year the work on creation of EXFOR – Master application designed for the beginners was started. Exfor file is formed using the appropriate patterns containing information on the keywords.

S. Taova and G. Pikulina, experts from CNPD visited Nuclear Data Section in May 2007 and reported on the development of EXFOR – Editor. During the visit the up-dated version of EXFOR – Editor and application Data – Editor was presented.

The main changers refer to the work on data table editing. Some new functions of data processing were added:

- data import from TEXT , WORD and EXCEL files is provided;
- user can paste data from the Clipboard into a table;
- desired data presentation precision can be set when transferring data from a table to EXFOR file;
- insertion of a constant value into a data column can be carried out;
- CHART and SORT modes are included to the Data – Editor;
- user interface of some windows was improved.

The window of reaction input was essentially changed. Some new possibilities of reaction, quantity and data-type search appeared.

The window for input of keyword information has been modified.

The following buttons were added:

- CLEAR button – delete text in the edit field.
- COMPRESS button – delete unwanted blanks and service characters from text.

Clicking the right mouse button creates pop-up menu with the edit functions. COPY, CUT, PASTE and UNDO procedures are available.

The following functions were added:

- automatic filling of the DICTIONARY field when entering a code;
- repeated search of a code combination given in the DICTIONARY field.

Such possibilities are available to input information on the following keywords DETECTOR, METHOD, ANALYSIS, STATUS, ERR-ANALYS, INC-SOURCE, ADD-RES, AUTHOR, REFERNCE, TITLE, FACILITY and INSTITUTE.

When entering the new keywords, data tables, COMMON sections to the EXFOR file special check is carried out to control the possibility of input.

The work on development of EXFOR – Editor is being continued. Next year a final version of EXFOR – Master is planned to be prepared.