

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

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Compilation activity

Four final files trans.f058, trans.f059, trans.f060 and trans.f061 were submitted for the EXFOR data library within the past period. There was also prepared preliminary file trans.a084 containing corrected works only. These files include 32 new entries and 167 revised entries.

As in previous years much attention is paid to correction of old entries. Very often introduction of a small correction leads to the necessity of reviewing the whole entry. We usually also change error designations and a format of data presentation.

In these latter days we often deal with new data types (new for ourselves). While earlier we mainly dealt with data on charged particles interaction with light nuclei, today we compile data on interaction of heavy ions with nuclei leading to production of super-heavy elements. These data are mostly from Dubna. Compilation of such data requires that we should have new knowledge and additional skills in this field of nuclear physics.

Software

EXFOR-Editor, InpGraph

At present the development of the EXFOR-Editor takes two basic lines:

- We take into account user's wishes – that is we make the necessary corrections and introduce additions into the existing software.
- We implement new modes of data processing – that is we create new versions.

As for the first line a new possibility to treat data tables with more than 150000 rows is now implemented. A version of ExfData which does not require special installation was created. We are also deeply involved in testing the new version of InpGraph program which provides digitizing of dissymmetrical error bars.

General

Scanning of journals “Izvestiya Akademii Nauk”, “Yadernaya Fizika” and EPJ/A is being performed regularly. The results of scanning are reported to the NDS, IAEA.