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

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Compilation activity

Eight final files TRANS.F095, TRANS.F096, TRANS.A0104, TRANS.A105, TRANS.A106, TRANS.A107, TRANS.A108 and TRANS.A109 have been submitted for the EXFOR data library within the expired period. Files with letter "A" include the revised entries only. Files with letter "F" include both new and the revised entries.

As before, particular attention has been paid to the compilation of new articles. When compiling entries for the Exfor library, a close cooperation with the authors was provided. For the most new entries in TRANS.F095 author's approval was received. In general 17 new entries were prepared for the Exfor.

Software

EXFOR-Editor

Development of the EXFOR-Editor has been continued. Changes due to the introduction of the new format for the keyword STATUS have been made in the program code. To input information on the keyword STATUS a standard dialog window modified in accordance with the new rules is used. To include the STATUS record into all Subentries simultaneously the button «STATUS to each SUBENT» placed on the Toolbar of the main window is used.

While creating the TRANS file the possibility of Entry sorting in ascending order was provided. For this purpose the window «New Exchange File» was modified.

Update of Dictionaries and checking codes (CHEX and JANIS TRANS Checker) is being carried out on continuing basis.

To incorporate new versions of Dictionaries into the EXFOR-Editor V. Zerkin has designed a special code. It performs conversion of Dictionaries from original format to MS-Access. We have already used this software to update Dictionaries in EXFOR-Editor.

General

Technical paper "EXFOR-Editor package for entering, processing and representing nuclear reaction data in the Exfor format" (G. Pikulina and S. Taova) was published in a special issue of the «Journal of Nuclear Science and Technology», V. 61, iss.1, p. 146, 2024. The

possibilities of the software package in terms of ensuring the correctness and reliability of data input were considered in the article.

Scanning of journals "Izvestiya Akademii Nauk" and "Yadernaya Fizika" is being performed regularly to reveal articles relevant to be compiled to Exfor library. The reports on scanning results are submitted to the NDS, IAEA.