

TABLE MANUAL

The present table, given above, has been produced after the overview of the most recent versions of the major libraries JEFF-3.2, ENDF/B-VII.1 and JENDL-4.0 update 2, searching for the origin of their data.

The first column contains all the nuclides encountered during the search, listed in order of increasing atomic number. The remaining columns give a quick look on the state of the data for the nuclide in each library. Every time all the libraries are listed. If the data in a specific library originates from a new evaluation, that has been made for the latest version, the link below the library name comes in form of »[New evaluation](#)«. If the data in the latest version have been taken from an older version of the library involved, from another library, partially from other libraries or partially from an older library and partially from a new evaluation or there has been made an addition of data to an older version, we find the link »[Modified](#)«. If the nuclide does not appear in the given library a comment »No data« appears under its name.

The link we find under a library leads to a much detailed table, regarding the nuclide. At its beginning the nuclide code is displayed. This is just an arbitrary chosen number for each nuclide built from its atomic and mass number useful for the software we developed for the construction of this data tables. Next comes the nuclide name. The column »ORIGINAL DATA TAKEN FROM« gives the source of the data for the latest version of the library involved and the next two display the modifications that have been made to that origin. Next we find another trio of columns with same titles, this time indicating the source of the previous version of the library used, with the respective modifications. Proceeding forward in the table we find the same pattern of columns where we can date back to the oldest library the data originate from. At the end some comments are given for the latest version.

FURTHER READING

Evaluations for individual nuclides in contemporary major evaluated nuclear data libraries are often not original. In many cases, nuclear data are adopted either from older versions of the same library or from different libraries. In many other cases, the nuclear data are adopted from an older library but (more or less) slightly modified. As a general rule, the information about the origin of the evaluations is written in the header of the nuclear data file (the so-called File 1 in the ENDF-6 format [1]). However, there is no database where information for all available evaluations from different libraries would be available in one place. The final purpose of our work was to gather all this information in a single document and establish a website where they will be stored and easily accessible for the users in a more user-friendly way.

Program for searching keywords (mainb)

The process of extracting the information about the origin of the evaluations has been partly automatized. The utility code written in C++ goes through all the selected nuclear data files. The code is accessible below in [mainb](#).

Software for html (nuklid, final)

In the following step two programs that take the data from Excell spreadsheet and put them in html form have been developed. The first ([nuklid](#)) creates a small html file for each nuclide, the second ([final](#)) gathers all the small files and makes them accessible from one large table of nuclides which is the central point of this web site.

The codes along with the program description are accessible in the links below.