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ENDF/B-6 decay data library

by the

US National Nuclear Data Center

Summary of Contents

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Abstract: This document summarizes the contents of the ENDF/B-6 decay data library which is available on magnetic tape from the IAEA Nuclear Data Section.

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For an introduction to ENDF/B-6 see the document IAEA-NDS-100. The ENDF/B-6 decay data library includes radioactive decay data for all

- fission-product nuclei,
- radionuclides resulting from neutron activation, and
- actinides,

that occur in the ENDF/B-6 main library.

The decay data library has a size of 64.000 records in ENDF-6 format.

For 265 nuclides the radioactive decay data that are coded under MT/MF = 8/457 are given, mostly extracted from the ENSDF database. Only in the case of 98-Cf-252 the spontaneous fission-neutron yield and the spontaneous fission-neutron spectrum are given, in addition. The latter is based on the evaluation by W. Mannhart, see document IAEA-NDS-98.

The library was released in 1992 by the US National Nuclear Data Center. On 1 June 1993 a revision was issued on tape 210 with a single correction: In MAT 4322 for 43-Tc-98, free text of line 7, read correctly MAT 4322 instead of 4328.