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PRONDOS

Evaluations of selected neutron activation reactions for dosimetry
by V.G. Pronjaev et al., 1988/1989

Summary by H.D. Lemmel

Abstract: This document summarizes an evaluated neutron activation data file for five materials that can be used for neutron dosimetry by foil activation. The file is available upon request from the IAEA Nuclear Data Section, free of charge.

Revised by P.K. McLaughlin IAEA/NDS Jan. 2005

The file was revised to conform with ENDF/B format standards.. The merged file was corrected for format errors and processed through the code CHECKR to ensure, as far as possible, format compatibility.

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In 1990 a file by V.G. Pronjaev was received at the IAEA Nuclear Data Section including evaluations for the following materials:

MAT	Reaction
1721	17-Cl-37(n, γ) with res. pars.
2511	25-Mn-55 (n, γ) with res. pars. (n,2n)
2911	29-Cu-63 (n, γ) with res. pars. (n,2n)
5711	57-La-139(n, γ) with res. pars.
7451	74-W-186(n, γ) with res. pars.

These reactions can be used for neutron dosimetry by foil activation. (They may supplement the International Reactor Dosimetry File IRDF-90).

The data are in ENDF-5 format. The file can be obtained on diskette or magnetic tape.