

EVALUATION OF THE
IN-115(N,N')IN-115M
REACTION FOR THE ENDF/B-V
DOSIMETRY FILE*

by

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ABSTRACT

An evaluation of the $^{115}\text{In}(n,n')^{115\text{m}}\text{In}$ reaction for the ENDF/B-V Dosimetry File is presented. This evaluation is based entirely on reported experimental differential data. Several data sets were renormalized prior to the evaluation in order to take into account recent adjustments in corresponding standard cross sections and in other nuclear parameters used for derivation of cross sections. The present evaluation is compared with the corresponding ENDF/B-IV evaluation. The value of the spectrum-average cross section for the standard neutron field resulting from thermal-neutron fission of ^{235}U has been computed for this reaction using cross section values from the present evaluation. This computed cross section compares favorably with the result of a recent evaluation of integral data.

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