

**Nuclear Data Section
International Atomic Energy Agency
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Memo CP-D/398

Date: 3 June 2004
To: Distribution
From: O. Schwerer

Subject: Probability for emission of N (prompt) fission neutrons

Reference: Memos 4C-4/151, 152; entry 41425 on (final) TRANS 4131

In these memos the quantity code

PR/NUM,PN was proposed for the probability for the emission of N prompt fission neutrons (with N coded under the heading PART-OUT).

I do not agree, because, after some discussions, it was decided at last year's NRDC meeting, to code these data this way:

(...,F)NPART,PR/NUM,NU (see Conclusion C30 of the 2003 NRDC meeting).

This conclusion superseded my earlier proposal (made in CP-D/358) to code these data as PR,NU/DN. This coding was not agreed because we redefined the code DN to mean "differential by the number of outgoing particles" to be used in SIG/DN (Conclusion C29 of the 2003 NRDC meeting).

By the way, the code PN for "delayed neutron emission probability" is derived from the generally used symbol P_n which refers explicitly to the delayed neutrons from a particular precursor nuclide. Actually this is decay data rather than reaction data, and only about 2 subentries used this quantity. Therefore the definition of PN should not be extended.

Subentries 41425.002-004 on TRANS 4131:

Actually I mentioned the above in my comments (sent to the neutron centers on 25 September 2003) about the first preliminary version of TRANS 4131 (actually this was my only comment) and I requested the above change then. I have not yet processed the final TRANS 4131 and will make this correction myself before doing so. To be on the safe side, I ask CJD to retransmit this entry with the corrected REACTION coding.

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