

**Nuclear Data Section
International Atomic Energy Agency
P.O.Box 100, A-1400 Vienna, Austria**

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This conclusion superseded my earlier proposal (made in CP-D/358) to code these data as PR,NU/DN.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.

Distribution:

oblozinsky@bnl.gov
vml@bnl.gov
nordborg@nea.fr
manokhin@ippe.obninsk.ru
maev@ippe.obninsk.ru
may@obninsk.ru
Mmarina@ippe.obninsk.ru
feliks@polyn.kiae.su
chukreev@polyn.kiae.su
S.Dunaeva@iaea.org
taova@expd.vniief.ru
varlamov@depni.sinp.msu.ru
chiba@earth.sgu.ac.jp
kato@nucl.sci.hokudai.ac.jp
oba@nrdf.meme.hokudai.ac.jp
yxzhuang@iris.ciae.ac.cn

gezg@iris.ciae.ac.cn
hongwei@iris.ciae.ac.cn
tarkanyi@atomki.hu
stakacs@atomki.hu
hasegawa@ndc.tokai.jaeri.go.jp
vlasov@kinr.kiev.ua
kaltchenko@kinr.kiev.ua
ogritzay@kinr.kiev.ua
jhchang@kaeri.re.kr
ohtsuka@nucl.sci.hokudai.ac.jp
m.wirtz@iaea.org
m.lammer@iaea.org
v.pronyaev@iaea.org
schwerer@iaeand.iaea.org
v.zerkin@iaea.org
exfor@nea.fr