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Memo CP-D/353

Date: 18 February 2003
To: Distribution
From: O. Schwerer

Subject: Dictionary 36 quantities proposed in recent memos

Reference: Memo 4C-4/134, 4C-4/138

1) DE,N,MXW and PR,DE,N,MXW "Maxwell distribution of (prompt) neutrons"

MXW is a general-purpose modifier which is not entered in dictionary 36. But it describes the incident spectrum, not the quantity measured.

Actually the new entry (40535 on PRELIM 4029) for which it is proposed, gives the ratio of the neutron spectrum to the Maxwellian of a certain temperature. Perhaps we can think of another way of coding such data.

2) DE/TMP,N and PR,DE/TMP,N "Temperature of the Maxwell energy distribution of (prompt) neutrons"

TMP in SF6 stands for temperature-dependent data. This means, temperature would be an independent variable rather than the quantity measured. We need another way for coding such data.

3) PRE,FY/DA,FF and PRE,FY/DA,FF,RSD "Fission yield of primary fragments depending on fragment (mass and) angle (relative to 90 degrees)"

So far we don't have any quantities in dict. 36 with FY/DA, nor any suitable units (Percent/fission/steradian?) Actually, only the quantity with RSD (relative to 90 deg.) in SF8 is used in entry 40593.

We do have many entries in dict. 36 with DA/CRL in SF6 and with fission products in SF7. Could this perhaps be coded with DA/CRL,N/FF, or what would be the difference?

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