

1983-05-24

To: Distribution

From: O. Schwerer *O. Schwerer*

Subject: Quantities ,DA,,4PI/LEG and FA/PAR,SIG

Reference: TRANS-2093, entries 20843.004 and 21842

1. The new combination of codes ,DA,,4PI/LEG used in subentry 20843.004, corresponding to a definition

$$4\pi \frac{d\sigma}{d\Omega} = a_0 + \sum_{l=1} a_l P_l \quad (1)$$

is in our opinion not needed in this case, because only the coefficient for $l = 0$ is used. In this case the existing coding

,DA,,LEG/L4P

defined as

$$4\pi \frac{d\sigma}{d\Omega} = \sum_{l=0} (2l+1) a_l P_l \quad (2)$$

is equivalent.

Should the coefficient defined in (1) be needed at a later time, we propose to use the coding

,DA,,LEG/4PI

instead, to keep a uniform style.

May we ask NEA-DB to retransmit subentry 20843.004 with the coding they consider the more appropriate.

2. The quantity FA/PAR,SIG (entry 21842) should not be used for the spin part of the free atom cross section (see definition of 'PARTIAL' in Dict. 31). We do not have another code to suggest; would it perhaps suffice to give these (probably deduced) values in free text only?

Clearance: J.J. Schmidt

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