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DATE: June 2, 2000
TO: Distribution
FROM: V. McLane
SUBJECT: Data headings and units for wave length and kT

There presently exist some inconsistencies in the data heading vs. unit codes in Dictionary 24. The checking and processing codes must, therefore, make exceptions for these cases. I propose, as we are looking at new directions in databases, it would be a good time to bring the dictionaries into compliance, that is, to make the unit codes correct in all cases.

Following are 2 cases where the present codes are not adequate.

1.) kT (current unit code E). The data may be given in K (unit code TEM) or eV (unit code E). In checking the units for kT, I find only 5 sets already coded. Of these, 3 were coded using units of K. For the 2 that were coded using units of eV, both were given in the reference as K.

Therefore, I propose that the standard unit type for kT should be temperature. We should deal with other cases as they come along.

2.) Wave-length (currently coded under the heading EN with unit code E). These are always given as angströms (unit code L).

At present the I only find neutron data coded vs. wave-length. I propose we resurrect the data heading WVE-LN to be used with units of length (L).

If this proposal is accepted, I volunteer to update the entries and send them to the responsible center for retransmission.

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