

New Heading “VEL” for Velocity of Incident Particle

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Cold neutron cross sections are sometimes given at neutron velocities instead neutron energies. An example is seen in Gd neutron transmission data in EXFOR 23285 (J. Schroffenegger et al., Phys. Lett. B752(2016)212) submitted in PRELIM.2248, and also EXFOR 22495 (H. Rauch et al., Phys.Rev.Lett.83(1999)4955). In order to avoid conversion of the neutron velocity to the corresponding neutron energy by compilers, we would like to propose a new heading and unit code for the velocity of the incident projectile.

Dictionary 24 (Headings)

VEL Velocity of incident projectile in laboratory system

Dictionary 25 (Units)

M/SEC meters per second

Dictionary 26 (Unit families)

v velocity