

$$w_R(E_n) = 5 + 17 \exp\left[\frac{-(\ln(2E_n))^2}{6}\right] \quad (2.5)$$

where  $E_n$  is the neutron energy in MeV. The values of  $w_R$  given by this equation have been used to evaluate the reference data for neutrons.

#### 2.4.5. Radiation weighting for operational quantities

(48) The operational quantities are defined at a point in tissue or a phantom in terms of the quality factor,  $Q$ , and the absorbed dose,  $D$ . The quality factor, which is to be applied to the absorbed dose deposited by a charged particle, is obtained by assuming that the stopping power of the particle in water is numerically equal to  $L$  in the appropriate  $Q(L)-L$  relationship.

#### 2.4.6. $Q(L)-L$ relationship

(49) The quality factor has a functional dependence on the linear energy transfer,  $L$ , in water. The numerical relation between  $Q(L)$  and  $L$  specified by the ICRP in Table A-1 in Annex A of *Publication 60* and shown in Fig. 2 is given by three equations:

$$Q(L) = 1 \quad (L < 10 \text{ keV}/\mu\text{m}) \quad (2.6a)$$

$$Q(L) = 0.32L - 2.2 \quad (10 \leq L \leq 100 \text{ keV}/\mu\text{m}) \quad (2.6b)$$

$$Q(L) = 300/\sqrt{L} \quad (L > 100 \text{ keV}/\mu\text{m}) \quad (2.6c)$$

There is a trivial discontinuity at  $L = 100 \text{ keV}/\mu\text{m}$ , which needs to be recognised when computer calculations are made.

(50) Section 2.4.2 discusses the combined influence on conversion coefficients of changes in the ICRP-recommended  $Q(L)-L$  relationship and in charged-particle stopping powers. This relationship was used to calculate the conversion coefficients recommended in *ICRP Publication 51* (ICRP, 1987), and in this report, for comparison of data for  $H_E$  and  $E$ . The  $Q-L$  relationship recommended in *Publication 60* was used in new calculations of the operational quantities,  $H^*$ ,  $H'$ , and  $H_p$ , given in this report (see Section 5).

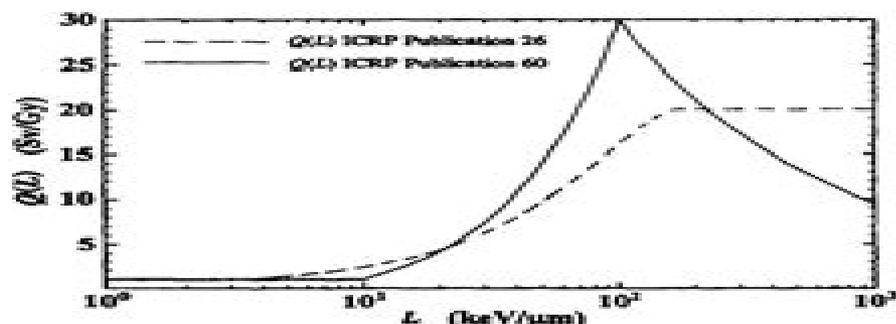


Fig. 2. Quality factor as a function of linear energy transfer as recommended in *ICRP Publications 26* and *60*.

# Conversion Coefficients For Use In Radiological Protection Against External Radiation

**M Tight**



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