Particle and Electronic Symbols Used in This Book

For this part of the book, two tables are given because some symbols refer to quantities and others refer to specific particles. The symbol's context should make clear which table should be consulted.

Symbol	Quantity
A	mass number
β	(Greek beta) current or potential difference gain of an amplifier
E	photon energy
E_R	rest energy
f_t	threshold frequency (photoelectric effect)
hf_t	work function (photoelectric effect)
KE _{max}	maximum energy of ejected photoelectron
λ	(Greek lambda) decay constant
λN	decay rate (activity)
N	neutron number, number of decayed particles
n	energy quantum number
T _{1/2}	half-life
Z	atomic number

Symbol	Particle
α	alpha particle
b, \overline{b}	bottom quark, antiquark
β^+	(Greek beta) positron (beta particle)
β^-	(Greek <i>beta</i>) electron (beta particle)
c, c	charmed quark, antiquark
d, \overline{d}	down quark, antiquark
$e^+, {}^0_{+1}e$	positron
$e^{-}, {}_{-1}^{0}e$	electron
γ	(Greek gamma) photon (gamma rays)
⁴ ₂ He	alpha particle (helium-4 nucleus)
μ	(Greek mu) muon
$\frac{1}{0}n$	neutron
$^{1}_{1}p$	proton
s, s	strange quark, antiquark
t, \overline{t}	top quark, antiquark
u, \overline{u}	up quark, antiquark
τ	(Greek tau) tauon
ν , $\overline{\nu}$	(Greek nu) neutrino, antineutrino
W^+, W^-	boson (weak force)
Z	boson (weak force)