Nuclear Particles and Rays

Table 1 Characteristics of Nuclear Particles and Rays

Particle	Mass (amu)	Charge	Symbol	Stopped by
Proton	1.007 276 47	+1	$p, p^+, {}_{+1}^1 p, {}_{1}^1 H$	a few sheets of paper
Neutron	1.008 664 90	0	$n, n^0, {}^1_0 n$	a few centi- meters of lead
β particle (electron)	0.000 548 580	-1	$oldsymbol{eta},oldsymbol{eta}^-,{}^0_{-1}\!e^*$	a few sheets of aluminum foil
Positron†	0.000 548 580	+1	β^{+} , $_{+1}^{0}e^{*}$	same as electron
α particle (He-4 nucleus)	4.001 474 92	+2	$\alpha, \alpha^{2+}, {}_{2}^{4}$ He	skin or one sheet of paper
Gamma ray	0	0	γ	several centi- meters of lead