

TABLE 22-1 Radioactive Nuclide Emissions

Type	Symbol	Charge	Mass (amu)
Alpha particle	${}^4_2\text{He}$	2+	4.002 60
Beta particle	${}^0_{-1}\beta$	1-	0.000 5486
Positron	${}^0_{+1}\beta$	1+	0.000 5486
Gamma ray	γ	0	0

Decay mode	Effect on atomic number	Effect on mass number
α -particle		
	increases by 1	
	decreases by 1	

