

Properties of α , β , γ rays

Property	α rays	β rays	γ rays
Mass	+4	0	0
Charge	+2	+1/-1	0
Deflection	Towards negative electrode	Towards positive electrode	No deflection
Energy (typical)	5.5 MeV	1 MeV	1.2 MeV
Range/Penetration (in water)	<100 μ	<200 μ ->1 mm (upto few mm)	Upto few cm
Ionisation	Direct	Direct	Indirect