

Physics

Rutherford's Atom

TYPES OF RADIATION

Alpha Particle:



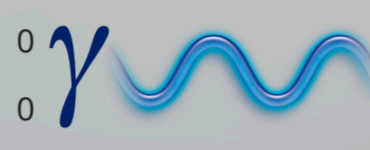
α-Particle is a Helium Nucleus, has a positive charge of +2.

Beta Particle:



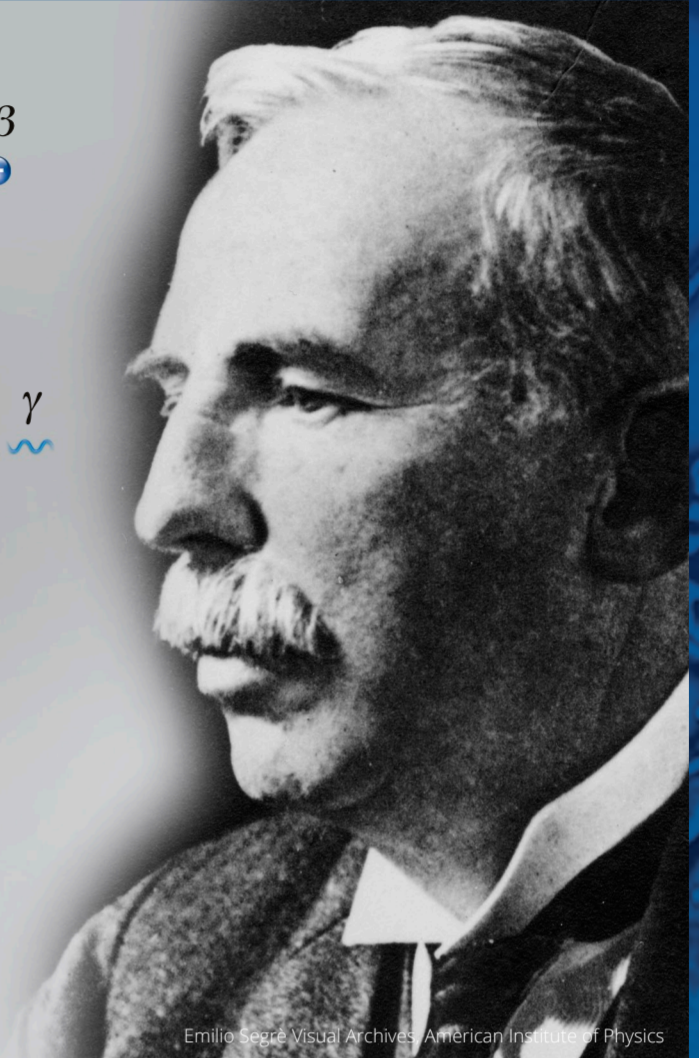
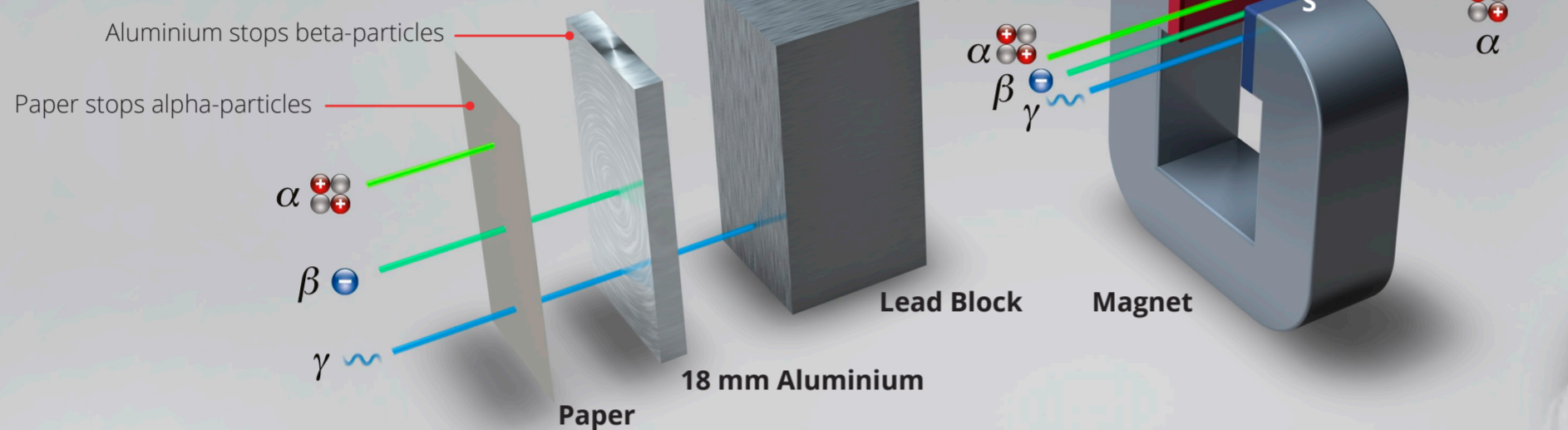
β-Particle is an electron, has a charge of -1.

Gamma Ray:

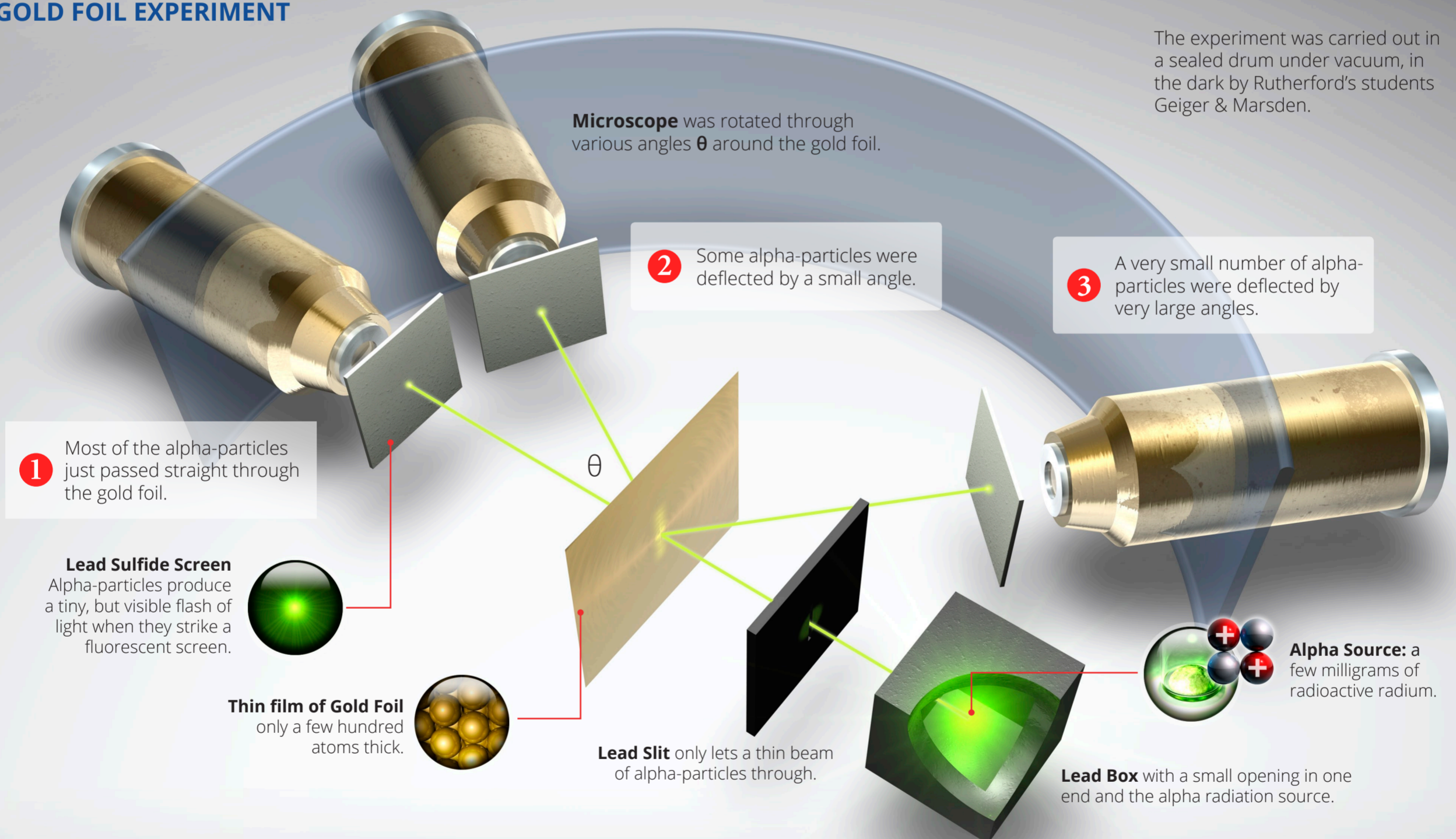


γ-ray is a high energy photon and has no charge.

RADIATION PROPERTIES

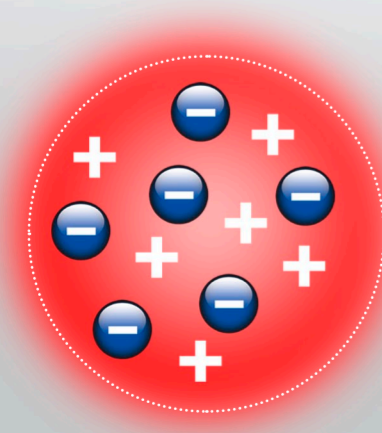


GOLD FOIL EXPERIMENT



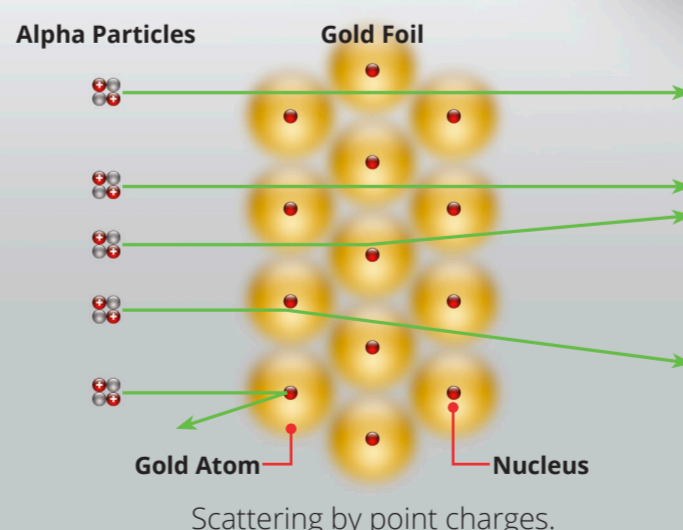
The experiment was carried out in a sealed drum under vacuum, in the dark by Rutherford's students Geiger & Marsden.

"PLUM PUDDING" MODEL



An early model of structure of an atom. This model was proposed by JJ Thomson in 1904. Here the atom is envisioned as electrons surrounded by a soup of positive charge, like plums surrounded by pudding.

THEORETICAL ANALYSIS



RUTHERFORD'S MODEL

