



The diagram illustrates the photoelectric effect within an atom. At the center is a nucleus, depicted as a cluster of red and green spheres. Surrounding the nucleus are several concentric blue elliptical orbits. Small black dots representing electrons are positioned at various points along these orbits. On the left, a purple wavy line representing an incoming photon enters the atom. A yellow arrow originates from a point on one of the inner orbits and points towards the right, representing the path of a photoelectron. Two text boxes with yellow backgrounds and red borders provide labels: one on the left for the incoming photon and one on the right for the emitted photoelectron.

Incoming γ -photon

Photoelectron from
an inner shell