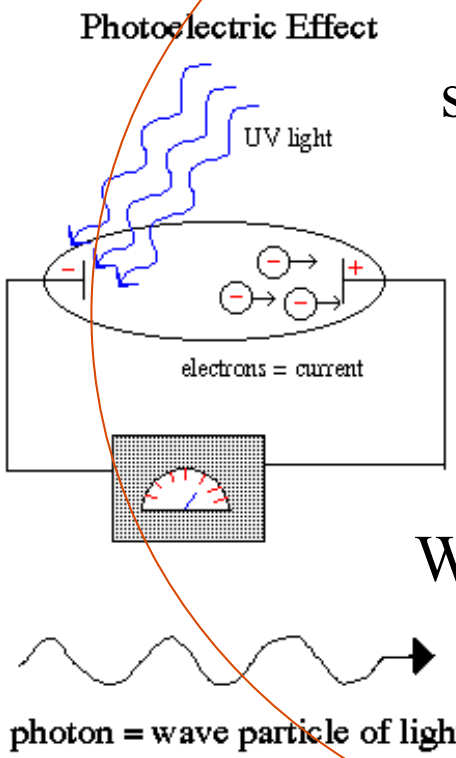
effetto fotoelettrico



Intensita' = $100*0.05/[4\pi(0.75)^2] = 0.71$ J/sec/m^2

sull'atomo = $0.71 * \pi\,(1\text{x}10^{-10}\text{ m})^2 = 2.2\text{ x}10^{-20}$ J/sec

5% * 100 Watt

$W_0 = 2$ eV $= 2$ x $(1.6\ 10^{-19})$ Joule $= 3.2$ x 10^{-19} Joule

75 cm

In verita' ~ 10^{-9} sec !!!!

tempo necessario = $3.2\text{x}10^{-19} / 2.2\text{x}10^{-20} = 14.5$ sec