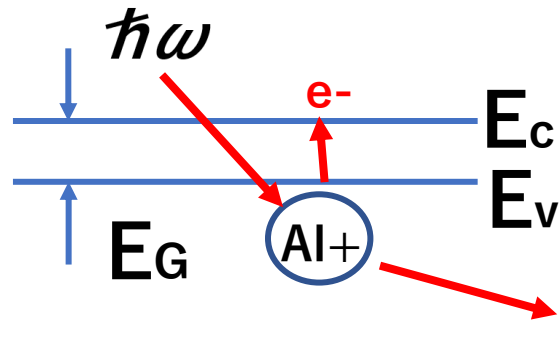# Difference between Metal and Isolator
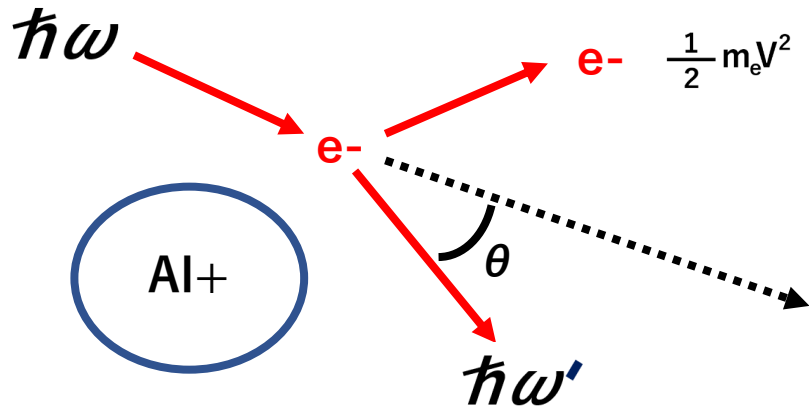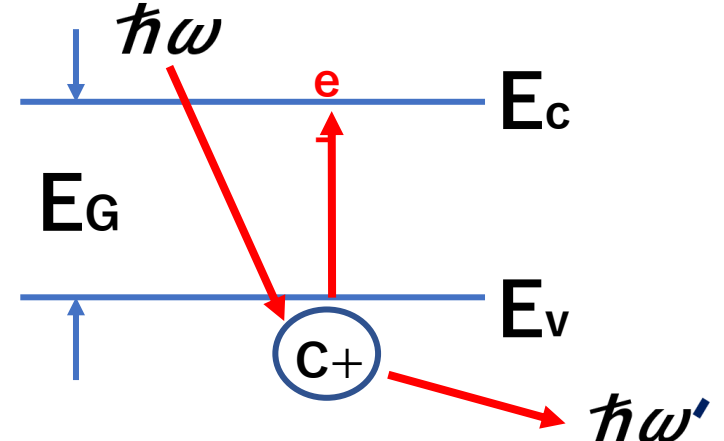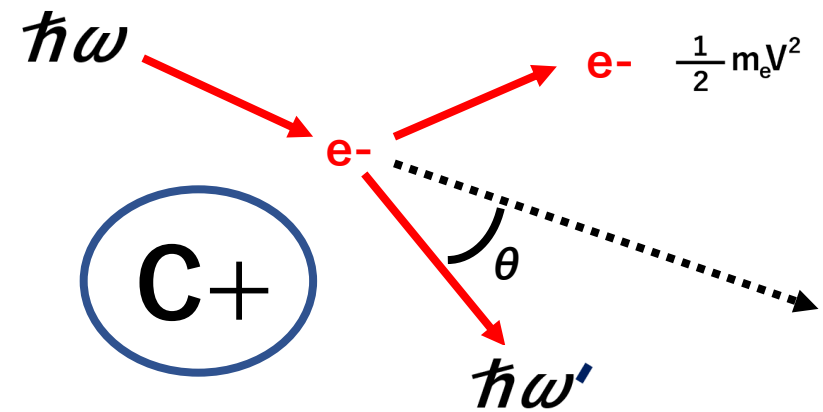

$$\hbar\omega = \hbar\omega' + \frac{1}{2}m_eV^2 + E_G$$

$$\hbar\omega = \hbar\omega' + \frac{1}{2}m_eV^2 + E_G$$

Al Metal

Carbon Diamond