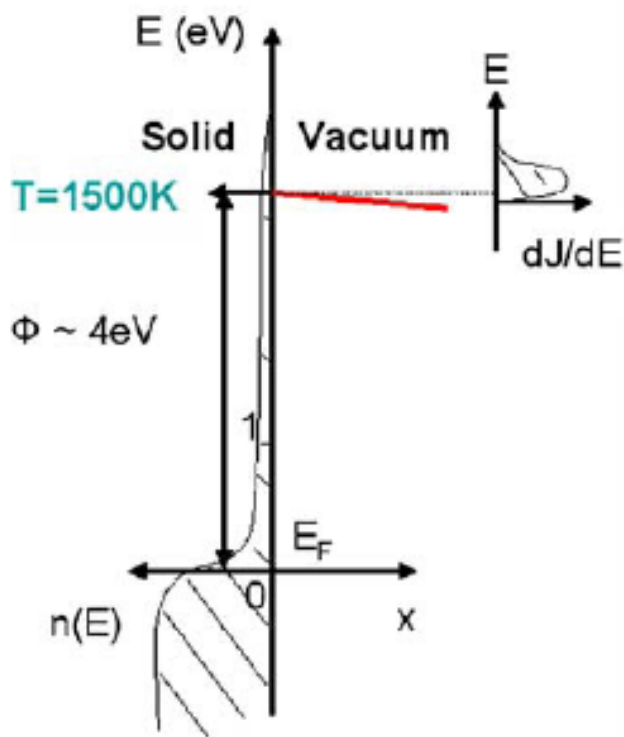


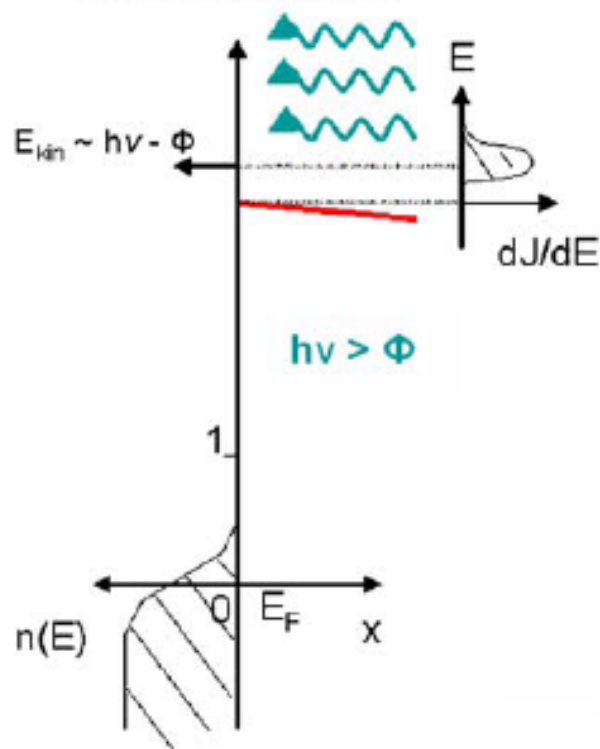
Thermionic Emission



$$E_{kin} \sim \frac{3}{2} kT_{Solid}$$

$$J < 10^6 \text{ A.m}^{-2}$$

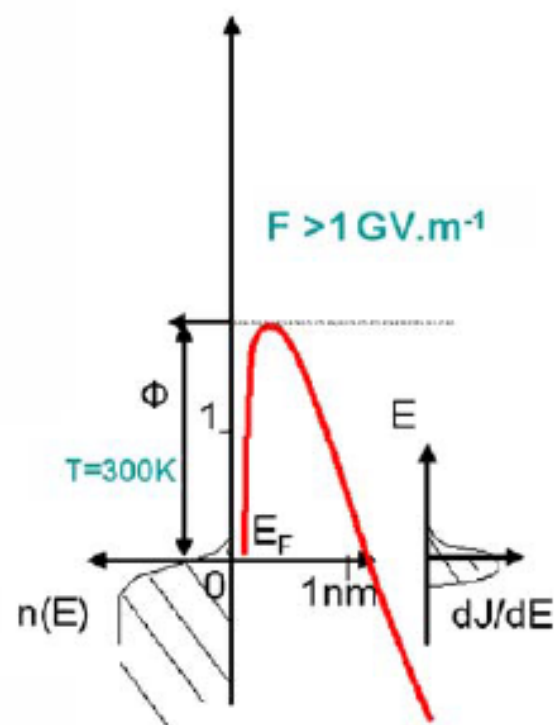
Photoemission



$$E_{kin} \sim h\nu - \Phi + e \sqrt{\frac{eF}{4\pi\epsilon_0}}$$

$$J < 10^9 \text{ A.m}^{-2}$$

Field Emission



$$E_{kin} \sim 4kT_{Solid}$$

$$J < 10^{12} \text{ A.m}^{-2}$$